



**东莞铭普光磁股份有限公司**  
Dongguan Mentech Optical & Magnetic Co., Ltd.

**致力于成为全球通信部件领域的引领者**

*To be the leading supplier to all partners in the telecom industry worldwide.*



## LAN Magetics Transformer Catalog

**Electronics Division**

2015 A0

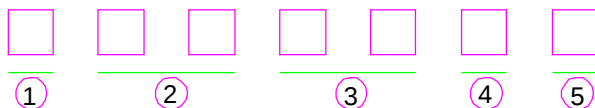
Mentech LAN discrete magnetic transformers are designed and manufactured to comply with IEEE802.3 and ANSI X3.263 standards. Products include 10/100 Base-T, 10/100/1000Base-T, 10G Base-T, Power Over Ethernet and ESD/Surge protected transformers modules. These products are widely used in ethernet equipments, broadband terminals, computer, voice and multimedia and so on.

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## Definition of Part Number



Part Name:



Description

|   |                |        |                                         |
|---|----------------|--------|-----------------------------------------|
| ① | Product type   | H      | 10/100 Base-T                           |
|   |                | G      | 100/1000 Base-T                         |
|   |                | M      | 10G Base-T                              |
|   |                | TE     | T1/E1/CEPT/ISDN PRI                     |
| ② | Number of pins | 4 Pin  |                                         |
|   |                | 16 Pin |                                         |
|   |                | .....  |                                         |
|   |                | .....  |                                         |
| ③ | Serial Number  | 1      |                                         |
|   |                | 2      |                                         |
|   |                | 3      |                                         |
|   |                | .....  |                                         |
| ④ | Package        | D      | Through Hole                            |
|   |                | C      | Surface Mount(SMT) Open header type     |
|   |                | A      | Surface Mount(SMT) Assembly header type |
| ⑤ | Extracode      | G      | RoHS or Halogen free                    |
|   |                | E      | Operation Temperature,Industrial Grade  |



Example: H1601CG

H1601CG has the characteristics of a single port, 16pin surface mount , open header package and halogen free.

| Manufacturer          | IC                           | 10 Base-T | 10/100 Base-T |         |         | 100/1000 Base-T |         | T1/E1/CEPT/ISDN |          |
|-----------------------|------------------------------|-----------|---------------|---------|---------|-----------------|---------|-----------------|----------|
|                       | Part Number                  | Single    | Single        | Dual    | Quad    | Single          | Dual    | Single          | Dual     |
| Cirrus Logic          | CS8900A-CQ3                  | T1602CG   |               |         |         |                 |         |                 |          |
|                       | CS8952                       |           | H1601CE       |         |         |                 |         |                 |          |
|                       | CS8952T                      |           | H1601CE       | H2401CG |         |                 |         |                 |          |
| Cirrus logic(Crystal) | 61577 61884 61584/84A        |           |               |         |         |                 |         | TE1203CG        |          |
|                       | 61304A/5A/535A/574A/75       |           |               |         |         |                 |         | TE1204CG        |          |
|                       | 61304A/5A/535A/574A/75       |           |               |         |         |                 |         | TE1208CE        |          |
|                       | 6,131,061,581                |           |               |         |         |                 |         | TE1208CE        |          |
|                       | 61310 61583                  |           |               |         |         |                 |         | TE1602CG        |          |
|                       | 61310 61581                  |           |               |         |         |                 |         | TE1602CE        |          |
|                       | LXT914 LXT915 LXT916         | T1620CG   |               |         |         |                 |         |                 |          |
|                       | LXT917 LXT918 LXT944         | T1621CG   |               |         |         |                 |         |                 |          |
|                       | 82551/2551QM/551ER           |           |               | H2401CG | H4001CG |                 |         |                 |          |
|                       | 82559/559ER                  |           | H1601CE       |         | H4001CE |                 |         |                 |          |
|                       | LXT970A/971(ALC)/972A        |           |               |         |         |                 |         |                 |          |
| Intel                 | LXT972                       |           | H1606CG       |         |         |                 |         |                 |          |
|                       | 82540/ 541/544/543           |           |               |         |         | G2436CG         | G4801CG |                 |          |
|                       | 82544/545/546/547            |           |               |         |         |                 | G5002CG |                 |          |
|                       | 82562                        |           |               |         |         |                 | G4830CG |                 |          |
|                       | 82576EB                      |           |               |         |         | G2436CG         |         | TE1208CE        |          |
|                       | LXT350,LXT351,LXT359         |           |               |         |         |                 |         | TE1602CG        |          |
|                       | LXT360/361/362/363           |           |               |         |         |                 |         | TE1602CE        |          |
|                       | LXT380/381/384/386/388       |           |               |         |         |                 |         | TE1609CG        |          |
|                       | LXT380/381/384/386/388       |           |               |         |         |                 |         | TE1609CG        |          |
|                       | LXT3104,LST3108              |           |               |         |         |                 |         | TE1609CE        |          |
|                       | LXT380/381/384/386/388       |           |               |         |         |                 |         | TE1609CE        |          |
|                       | LXT3104,LXT3108              |           |               |         |         |                 |         | TE1203CG        |          |
|                       | LXT380/381.384/386/388       |           |               |         |         |                 |         | TE1203CG        |          |
|                       | LXT3104,LXT3108              |           |               |         |         |                 |         |                 |          |
|                       |                              |           |               |         |         |                 |         |                 |          |
|                       |                              |           |               |         |         |                 |         |                 |          |
| EXAR                  | XRT75XXX XRT73L00/2/3/4/6/12 | T2401CE   |               |         |         |                 |         |                 |          |
|                       | XRT73LC03A/04A,R12           | T2401CE   |               |         |         |                 |         |                 |          |
|                       | XRT7300/7302                 | T2401CE   |               |         |         |                 |         |                 |          |
|                       | T5684 XRT7288 82D20          |           |               |         |         |                 |         | TE1201CG        |          |
|                       | XRT5683A,XRT59L91            |           |               |         |         |                 |         | TE1203CE        |          |
|                       | XRT81L27,82L24,82D20         |           |               |         |         |                 |         | TE1203CE        |          |
|                       | XRT83L30/4/8/314             |           |               |         |         |                 |         | TE1208CE        |          |
|                       | 86L38 XRT86L30/32/34/38      |           |               |         |         |                 |         | TE1208CE        |          |
|                       | XRT83L30/4/8/314,86L38       |           |               |         |         |                 |         | TE1602CG        |          |
|                       | XRT83SL30/4/8/314            |           |               |         |         |                 |         | TE1602CG        |          |
|                       | XRT86L30/32/34/38            |           |               |         |         |                 |         | TE1602CE        |          |
|                       | XRT5683A,XRT59L91            |           |               |         |         |                 |         | TE1609CG        |          |
|                       | XRT5894/5897/5997            |           |               |         |         |                 |         | TE1609CG        |          |
|                       | XRT81L27,82L24,82D20         |           |               |         |         |                 |         | TE1609CG        |          |
|                       | XRT75XXX                     |           |               |         |         |                 |         | TE3205CG        |          |
|                       | XRT73L00/2/3/4/6/12          |           |               |         |         |                 |         |                 | TE3205CG |
|                       | XRT73LC03A/04A               |           |               |         |         |                 |         |                 | TE3205CG |
|                       | XRT7300/7302                 |           |               |         |         |                 |         |                 | TE3205CG |
|                       |                              |           |               |         |         |                 |         |                 |          |
| Mindspeed             | CN28333/332/331              |           |               |         |         |                 |         | T2401CE         |          |
|                       | M28335/M28356                |           |               |         |         |                 |         | T2401CE         |          |
|                       | M28354/3/2                   |           |               |         |         |                 |         | T2401CE         |          |
| Agere                 | ET901                        |           | H1601CG       | H2401CG |         |                 |         |                 |          |
|                       | ET908                        |           | H1601CG       |         |         |                 |         |                 |          |
|                       | ET1011 ET1012                |           |               |         |         | G2436CG         | G4801CG |                 |          |
|                       | ET1081                       |           |               |         |         |                 | G5002CG |                 |          |
|                       | ET1310                       |           |               |         |         | G2405CG         | G4802CG |                 |          |
|                       | ET2005-40/50                 |           |               |         |         |                 | G4830CG |                 |          |
|                       | ET2008-30/40/50              |           |               |         |         | G2443CG         |         |                 |          |
|                       | ET3028-50                    |           |               |         |         |                 |         |                 |          |

| Manufacturer          | IC Part Number              | 10 Base-T | 10/100 Base-T |         |         | 100/1000 Base-T |         | T1/E1/CEPT/ISDN |      |
|-----------------------|-----------------------------|-----------|---------------|---------|---------|-----------------|---------|-----------------|------|
|                       |                             | Single    | Single        | Dual    | Quad    | Single          | Dual    | Single          | Dual |
| AMD                   | AM79C874/C875               |           | H1601CG       | H2401CG |         |                 |         |                 |      |
|                       | AM79C971/C972/C973/         |           | H1601CG       |         |         |                 |         |                 |      |
|                       | AM79C975/C976/C977          |           | H1601CG       |         |         |                 |         |                 |      |
| Broadcom              | AC101, AC101L               |           | H1601CG       | H2401CG |         |                 |         |                 |      |
|                       | AC104/205/206/207/208       |           |               |         | H4001CG |                 |         |                 |      |
|                       | AC131                       |           | H1602CG       |         | H4001CG |                 |         |                 |      |
|                       | BCM1190                     |           | H1601CG       |         |         |                 |         |                 |      |
|                       | BCM5241                     |           | H1601CG       |         | H4001CG |                 |         |                 |      |
|                       | BCM5220/ 5221               |           | H1601CG       |         |         |                 |         |                 |      |
|                       | BCM5222                     |           | H1602CG       |         |         |                 |         |                 |      |
|                       | BCM1100/110/                |           | H1606CG       |         |         |                 |         |                 |      |
|                       | BCM6345/6348                |           | H1602CG       |         |         |                 |         |                 |      |
|                       | BCM5350/5380                |           | H1601CG       |         |         |                 |         |                 |      |
|                       | AC104, BCM5208R             |           | H1601CG       |         |         |                 |         |                 |      |
|                       | BCM5315/5325(M)             |           | H1601CE       |         | H4001CE |                 |         |                 |      |
|                       | BCM5225/26/27               |           | H1601CG       |         | H4807CG |                 |         |                 |      |
|                       | AC207/208                   |           | H1606CG       |         |         |                 |         |                 |      |
|                       | BCM5400, BCM5401            |           |               |         |         | G2413CG         | G4801CG |                 |      |
|                       | BCM5411/21/21S              |           |               |         |         |                 | G5002CG |                 |      |
|                       | BCM5460/61/81               |           |               |         |         | G2405CG         | G4802CG |                 |      |
|                       | BCM5701/02/03/04/05         |           |               |         |         | G2443CG         | G4830CG |                 |      |
|                       | BCM5461S                    |           |               |         |         | G2497AG         |         |                 |      |
|                       | BCM5789                     |           |               |         |         | G2411CG         |         |                 |      |
|                       | BCM1100/110/AC104, BCM5208R |           |               |         |         | G2413CG         |         |                 |      |
|                       | AC1011/1012                 |           |               |         |         | G2497AG         |         |                 |      |
|                       | AC131 BCM5220/5221          |           |               |         |         | G2456CG         |         |                 |      |
|                       | Infineon ADM7001            |           |               |         |         | G2456CG         |         |                 |      |
| Davicom               | DM9000/A                    |           | H1601CE       | H2401CG |         |                 |         |                 |      |
|                       | DM9102A/D                   |           | H1601CG       |         |         |                 |         |                 |      |
|                       | DM9601                      |           | H1601CE       |         |         |                 |         |                 |      |
|                       | DM9301/9331                 |           | H1606CG       |         |         |                 |         |                 |      |
| IC+                   | 3097-F, 3299A               |           |               | H2401CG | H4001CG |                 |         |                 |      |
|                       | IP100A                      |           | H1601CE       |         |         |                 |         |                 |      |
|                       | IP108                       |           | H1601CE       |         | H4001CE |                 |         |                 |      |
|                       | IP1726                      |           |               |         | H4807CG |                 |         |                 |      |
|                       | IP101                       |           |               |         |         |                 |         |                 |      |
| ICS                   | ICS1890/1891                |           | H1601CG       |         |         |                 |         |                 |      |
|                       | ICS1893                     |           |               |         |         | G2413CG         |         |                 |      |
| Infineon              | ADM8511/8513/9511           |           | H2401CG       |         |         |                 |         |                 |      |
|                       | ADM9513, AN983B             |           | H1601CG       | H2422CG |         |                 |         |                 |      |
|                       | ADM7001                     |           | H1601CG       |         |         |                 |         |                 |      |
|                       | ADM6305                     |           |               |         | H4001CG |                 |         |                 |      |
|                       | AN985B/L autoMDX            |           |               |         |         | G2413CG         |         |                 |      |
|                       | ADM7001                     |           |               |         |         | G2456CG         |         |                 |      |
| Luminary Micro        | LM3S6938                    |           | H1601CG       |         |         |                 |         |                 |      |
|                       | LM3S8962                    |           | H1606CG       |         |         |                 |         |                 |      |
| LSI                   | L80223                      |           | H1601CG       | H2401CG |         |                 |         |                 |      |
|                       | L80227                      |           | H1606CG       |         |         |                 |         |                 |      |
|                       | L80600                      |           |               |         |         | G2413CG         | G4801CG |                 |      |
|                       | L80601                      |           |               |         |         | G2497AG         |         |                 |      |
|                       |                             |           |               |         |         |                 |         |                 |      |
| Marvell               | 88E6021                     |           |               | H2401CG | H4001CG |                 |         |                 |      |
|                       | 88E6060/88E6218             |           | H1601CE       |         | H4001CE |                 |         |                 |      |
|                       | 88E6052, 88E6063            |           | H1606CG       |         | H4807CG |                 |         |                 |      |
| Marvell Semiconductor | 88E1010/1011S               |           |               |         |         | G2436CG         | G4801CG |                 |      |
|                       | 88E1111/12/14/18/19         |           |               |         |         |                 | G5002CG |                 |      |
|                       | 88E1040/1040S/1041          |           |               |         |         |                 | G4830CG |                 |      |
|                       | 88E1041S/1042/1042S         |           |               |         |         | G2443CG         |         |                 |      |

| Manufacturer                    | IC Part Number              | 10 Base-T | 10/100 Base-T |         |         | 100/1000 Base-T |         | T1/E1/CEPT/ISDN |      |
|---------------------------------|-----------------------------|-----------|---------------|---------|---------|-----------------|---------|-----------------|------|
|                                 |                             | Single    | Single        | Dual    | Quad    | Single          | Dual    | Single          | Dual |
| MICREL                          | KS8721B/21BL/37             |           | H1601CG       | H2401CG |         |                 |         |                 |      |
|                                 | KS8737                      |           | H1601CG       |         |         |                 |         |                 |      |
|                                 | KSZ8893                     |           | H1606CG       |         |         |                 |         |                 |      |
|                                 | KS8995/95M/95MA/95E         |           | H1606CG       |         |         |                 |         |                 |      |
|                                 | KS8737                      |           |               |         |         | G2413CG         |         |                 |      |
| Micre                           | KS9020                      |           |               |         |         | G2436CG         | G4801CG |                 |      |
| Microchip                       | PIC18F87J50                 |           | H1601CG       |         |         |                 |         |                 |      |
|                                 | ENC28J60                    |           | H1601CG       |         |         |                 |         |                 |      |
| MicroLinear                     | ML6652                      |           | H1601CG       |         |         |                 |         |                 |      |
| Myson                           | MTD971                      |           | H1601CG       | H2401CG |         |                 |         |                 |      |
|                                 | MTD981                      |           | H1601CG       |         |         |                 |         |                 |      |
| Mysticom                        | MystiPHY110                 |           | H1601CE       |         |         |                 | G4801CG |                 |      |
| Mysticom                        | MY1001                      |           |               |         |         | G2497AG         | G5002CG |                 |      |
| National Semiconductor          | DP83847                     |           | H1601CG       | H2401CG |         |                 |         |                 |      |
|                                 | DP83848/C                   |           | H1636CG       |         |         |                 |         |                 |      |
| Realtek                         | DP83816 (macphyter II)      |           | H1601CE       |         |         |                 |         |                 |      |
|                                 | RTL8100C/101L/100B          |           | H1601CG       | H2401CG |         |                 |         |                 |      |
|                                 | RTL8150                     |           |               | G2413CG |         |                 |         |                 |      |
|                                 | RTL8019AS                   |           | H1601CE       |         |         |                 |         |                 |      |
|                                 | RTL8181/86                  |           | H1606CG       |         |         |                 |         |                 |      |
|                                 | RTL8208                     |           | H1601CG       |         | H4001CG |                 |         |                 |      |
|                                 | RTL8316                     |           |               |         | H4001CG |                 |         |                 |      |
|                                 | RLT8211/12                  |           |               |         |         | G2436CG         | G4801CG |                 |      |
|                                 | RLT8169                     |           |               |         |         |                 | G5002CG |                 |      |
| SIS                             | RTL8150                     |           | H1601CG       |         |         | G2413CG         |         |                 |      |
|                                 | SiS900                      |           | H1606CG       |         |         |                 |         |                 |      |
| SMSC                            | LAN83C183/185               |           | H1601CG       | H2401CG |         |                 |         |                 |      |
|                                 | LAN8187                     |           |               |         |         | G2443CG         |         |                 |      |
|                                 | LAN91C100FD/110             |           |               |         |         |                 |         |                 |      |
|                                 | LAN91C111                   | H1606CG   |               |         |         |                 |         |                 |      |
| National Semiconductor          | DP83865                     |           |               |         |         | G2436CG         | G4801CG |                 |      |
|                                 | DP83864                     |           |               |         |         | G2497AG         | G5002CG |                 |      |
|                                 | DP83640                     |           |               |         |         | G2443CG         |         |                 |      |
| Vitesse Semiconductor           | VSC8201/8211                |           |               |         |         | G2436CG         | G4801CG |                 |      |
|                                 | VSC8221/8601/8641           |           |               |         |         | G2497AG         | G5002CG |                 |      |
|                                 | VSC8204/24/34/44            |           |               |         |         | G2401CG         |         |                 |      |
|                                 | VSC8558/8538                |           |               |         |         | G2443CG         |         |                 |      |
|                                 | wVSC7380/7384               |           |               |         |         | G2411CG         |         |                 |      |
|                                 | VSC7388/7398                |           |               |         |         |                 | G4802CG |                 |      |
| Maxim                           | DS2151/2152/2153/2154       |           |               |         |         |                 |         | TE1201CG        |      |
|                                 | DS2148/Q48                  |           |               |         |         |                 |         | TE1201CG        |      |
|                                 | DS21552/Q552                |           |               |         |         |                 |         | TE1201CG        |      |
|                                 | DS21554/Q554                |           |               |         |         |                 |         | TE1201CG        |      |
|                                 | DS2196,2155,2149,21448      |           |               |         |         |                 |         | TE1208CE        |      |
|                                 | DS21352/Q352,DS21354/Q354   |           |               |         |         |                 |         | TE1208CE        |      |
|                                 | DS26502/3 DS21455/8 DS26528 |           |               |         |         |                 |         | TE1208CE        |      |
|                                 | DS2 196,2155,2149,21448     |           |               |         |         |                 |         | TE1602CG        |      |
|                                 | DS2148/Q48/Q348/349/Q59     |           |               |         |         |                 |         | TE1602CG        |      |
|                                 | DS21352/Q552,DS21354/Q354   |           |               |         |         |                 |         | TE1602CE        |      |
|                                 | DS2196,2155,2149,21448      |           |               |         |         |                 |         | TE1602CE        |      |
|                                 | DS2148/Q48/Q348/349/Q59     |           |               |         |         |                 |         | TE1602CE        |      |
|                                 | DS21352/Q352,DS21354/Q354   |           |               |         |         |                 |         | TE1602CE        |      |
|                                 | DS21455/8 DS26528           |           |               |         |         |                 |         | TE1602CE        |      |
| PMC-Sierra                      | PM4341/6341/4314            |           |               |         |         |                 |         | TE1201CG        |      |
| Infineon Technologies (Siemens) | PM4323/                     |           |               |         |         |                 |         | TE1203CG        |      |
|                                 | PM4325                      |           |               |         |         |                 |         | TE1609CG        |      |
|                                 | PEB2254/55                  |           |               |         |         |                 |         | TE1201CG        |      |
|                                 | PSB21381/82/83/84           |           |               |         |         |                 |         | TE1603CG        |      |
|                                 | PEB3018/86,PSB3186          |           |               |         |         |                 |         | TE1603CG        |      |

| Manufacturer | IC                           | 10 Base-T | 10/100 Base-T |      |      | 100/1000 Base-T |      | T1/E1/CEPT/ISDN |          |
|--------------|------------------------------|-----------|---------------|------|------|-----------------|------|-----------------|----------|
|              | Part Number                  | Single    | Single        | Dual | Quad | Single          | Dual | Single          | Dual     |
| IDT          | 82V2041E/2E/4E/8E            |           |               |      |      |                 |      | TE1208CE        |          |
|              | 82V2081/2/4/8 82P2281/2/4/8  |           |               |      |      |                 |      | TE1602CE        |          |
| Mindspeed    | M29378/M29374/M29371M29368   |           |               |      |      |                 |      | TE1602CE        |          |
|              | CN28333/332/331 M28335       |           |               |      |      |                 |      |                 | TE3205CG |
|              | M28356 M28354/3/2            |           |               |      |      |                 |      |                 | TE3205CG |
| Maxim        | DS2 196,2155,2149,21448      |           |               |      |      |                 |      | TE1602CG        |          |
|              | DS2148/Q48/Q348/349/Q59      |           |               |      |      |                 |      | TE1602CG        |          |
|              | DS21352/Q552,DS21354/Q354    |           |               |      |      |                 |      | TE1602CG        |          |
|              | DS26502/3 DS26502/3          |           |               |      |      |                 |      | TE1602CE        |          |
|              | DS21455/8 DS26528            |           |               |      |      |                 |      | TE1602CE        |          |
| Zarlink      | MT9074,MT9075                |           |               |      |      |                 |      | TE1617CE        |          |
| MOTOROLA     | MC145474/4/475               |           |               |      |      |                 |      | TE1603CG        |          |
|              | MC145574                     |           |               |      |      |                 |      | TE1604CG        |          |
| Transwitch   | ART TXC-02020 ARTE TXC-2021  |           |               |      |      |                 |      |                 | TE3205CG |
|              | DARTTXC-2030,DS3DARTTXC-2030 |           |               |      |      |                 |      |                 | TE3205CG |
|              | E3 DS3LIM-SN,TSC20153G       |           |               |      |      |                 |      |                 | TE3205CG |
|              | E3LIM TXC-20163              |           |               |      |      |                 |      |                 | TE3205CG |

## Optimization of Product Number

| Package Type          | Rate            | Port        | P/N     | P/N     | P/N      | P/N      |
|-----------------------|-----------------|-------------|---------|---------|----------|----------|
| SMT                   | 10/100 BASE-T   | SINGLE PORT | H1601CG | H1604CG | H1606CG  | H1631CG  |
|                       | 100/1000 BASE-T | SINGLE PORT | G2401CG | G2405CG | G2488CE  | G2497CG  |
|                       | 10/100 BASE-T   | QUAD PORT   | H4001CG | H4807CG |          |          |
|                       | 100/1000 BASE-T | DUAL PORT   | G4802CG | G4811CG |          |          |
| DIP                   | 100/1000 BASE-T | SINGLE PORT | G2401DG | G2408DG | G1801DG  | G1811DG  |
|                       | 10/100 BASE-T   | DUAL PORT   | H2001DG | H2002DG | H2052DG  |          |
|                       | 100/1000 BASE-T | DUAL PORT   | G3601DG | G3608DG | G4801DG  | G4804DG  |
|                       | 100/1000 BASE-T | QUAD PORT   | G7201DG | G7216DG | G9607DG  |          |
| Leading Specification | Rate            | Port        | P/N     | P/N     | P/N      | P/N      |
| POE+                  | 100/1000 BASE-T | SINGLE PORT | G2462CE | G2484CE | G24102CE | G24115CE |
|                       | 100/1000 BASE-T | DUAL PORT   | G4813CG | G4818CG |          |          |
|                       | 100/1000 BASE-T | QUAD PORT   | G9603DG |         |          |          |
| 10G                   | 10G             | SINGLE PORT | M2401CG | M2403CG |          |          |
|                       | 10G             | DUAL PORT   | M4801CG |         |          |          |

- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Through-Hole Type.
- Operating temperature range: 0 °C to +70 °C.

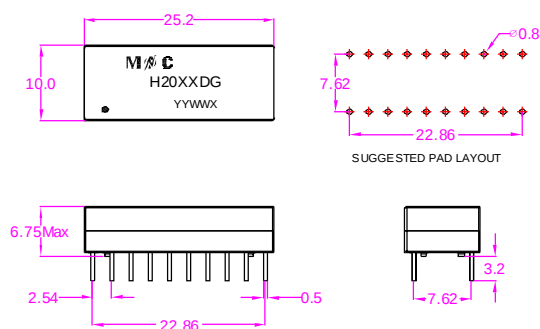


## Electrical Specifications @25°C

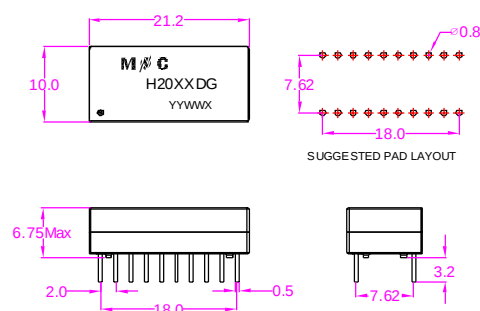
| Part Number | OCL(uH)<br>100KHz, 0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  |            |  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|-------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------|--|------------------------|------------------|------------------|------------------|
|             |                                                 |                      | 0.5-100MHz                 | 0.5-30MHz               | 30.1-60MHz       | 60.1-80MHz |  | 0.5-40MHz              | 40.1-100MHz      | 0.5-100MHz       |                  |
| H2001DG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12        |  | -35                    | -33+20*log(f/50) | -30              | 1500             |
| H2002DG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12        |  | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL

H2001DG



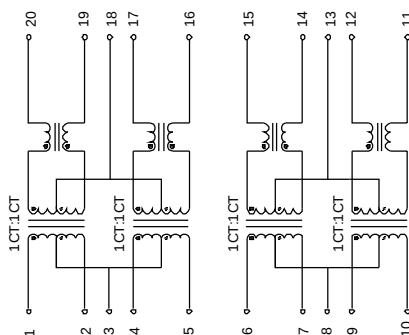
H2002DG



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

H2001DG, H2002DG



| H2001DG                   | H2002DG                   |
|---------------------------|---------------------------|
| Weight.....1.88 grams     | Weight.....1.82 grams     |
| Tube.....20 pcs           | Tube.....24 pcs           |
| Small Carton.....1000 pcs | Small Carton.....1200 pcs |
| Big Carton.....4000 pcs   | Big Carton.....4800 pcs   |

- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Through-Hole Type.
- Operating temperature range: 0 °C to +70 °C.

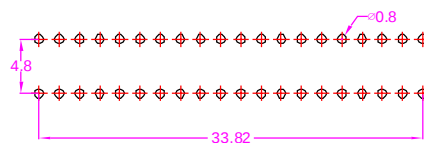
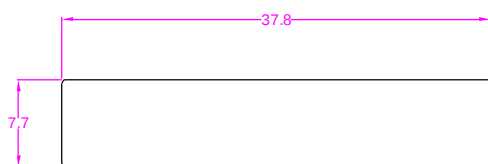


## Electrical Specifications @25°C

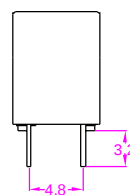
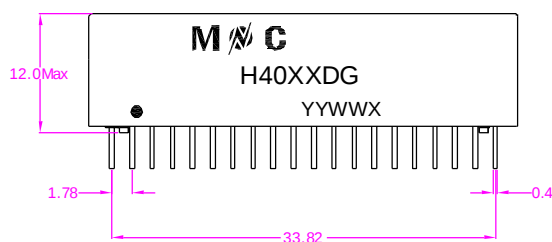
| Part Number | OCL(μH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  |           | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|-----------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-30MHz                  | 30.1-60MHz              | 60.1-80MHz       | 0.5-40MHz | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| H4001DG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |
| H4006DG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL

H4001DG



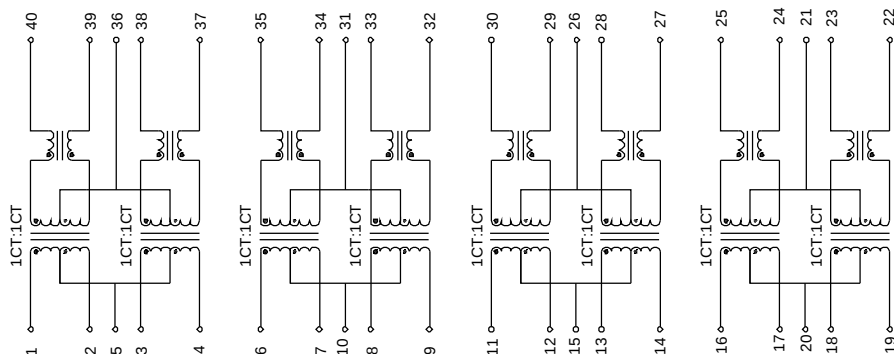
SUGGESTED PAD LAYOUT



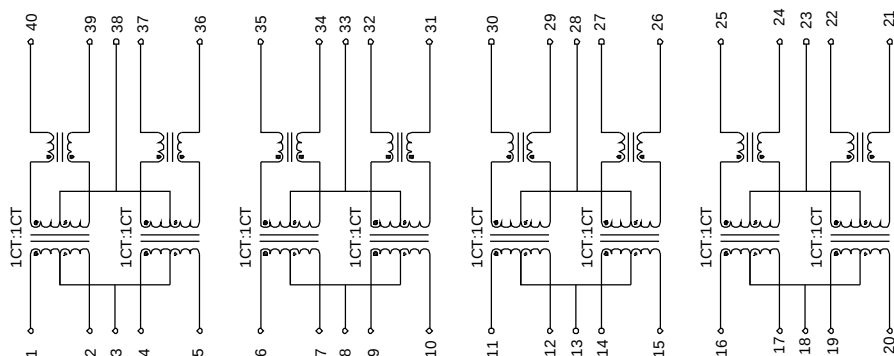
Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

H4001DG



H4006DG



| H4001DG                  | H4016DG                  |
|--------------------------|--------------------------|
| Weight.....5.60 grams    | Weight.....5.85 grams    |
| Tube.....13 pcs          | Tube.....13 pcs          |
| Small Carton.....780 pcs | Small Carton.....780 pcs |
| Big Carton.....3120 pcs  | Big Carton.....3120 pcs  |

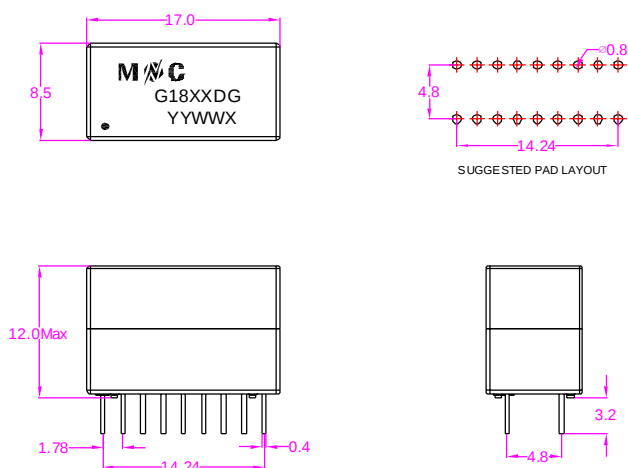
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .



## Electrical Specifications @25°C

| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G1801DG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

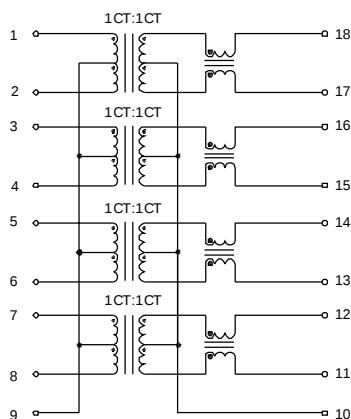
## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

G1801DG



**G1801DG**

Weight.....2.26 grams  
 Tube.....30 pcs  
 Small Carton.....1200 pcs  
 Big Carton.....4800 pcs

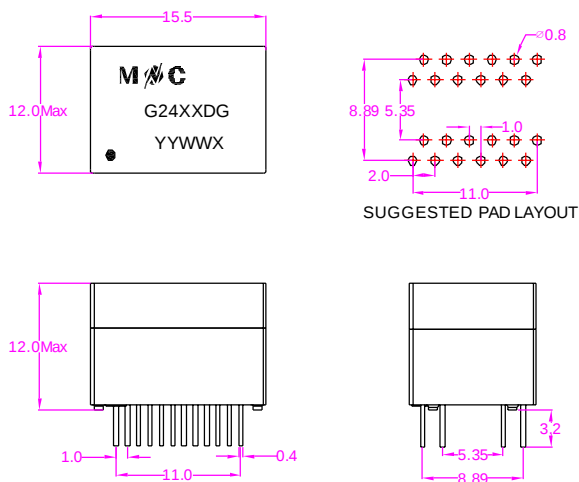
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .



## Electrical Specifications @25°C

| Electrical Specifications @25°C |                                                |                      |                            |                         |                  |                        |            |                  |                  |      |
|---------------------------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------|------------------|------------------|------|
| Part Number                     | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |            | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |      |
|                                 | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz |                  |                  |      |
| G2401DG                         | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) |                        | -35        | -33+20*log(f/50) | -30              | 1500 |

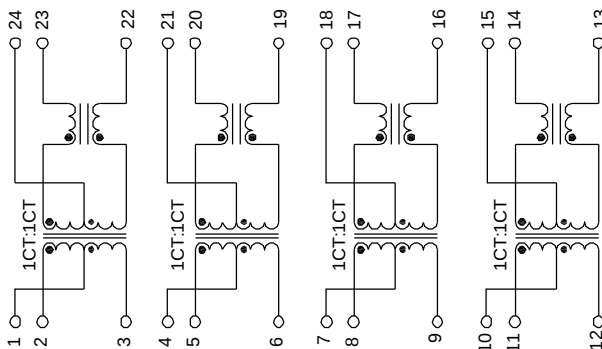
## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

G2401DG



**G2401DG**

Weight.....2.72 grams  
 Tube.....32 pcs  
 Small Carton.....1280 pcs  
 Big Carton.....5120 pcs

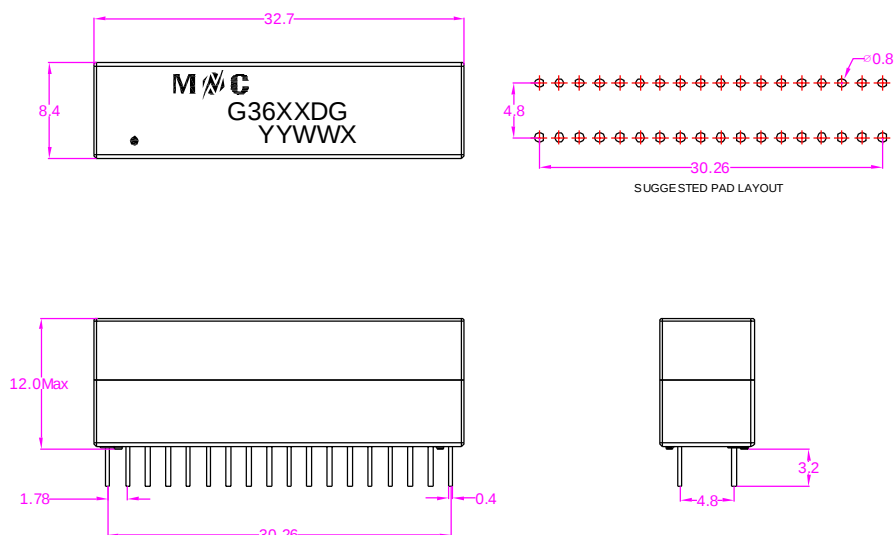
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G3601DG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

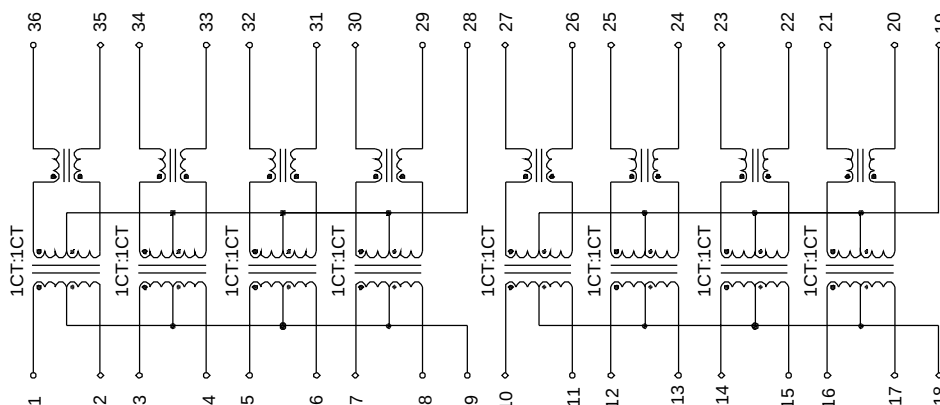
## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

G3601DG



G3601DG

Weight.....4.05 grams  
Tube.....15 pcs  
Small Carton.....750 pcs  
Big Carton.....3000 pcs

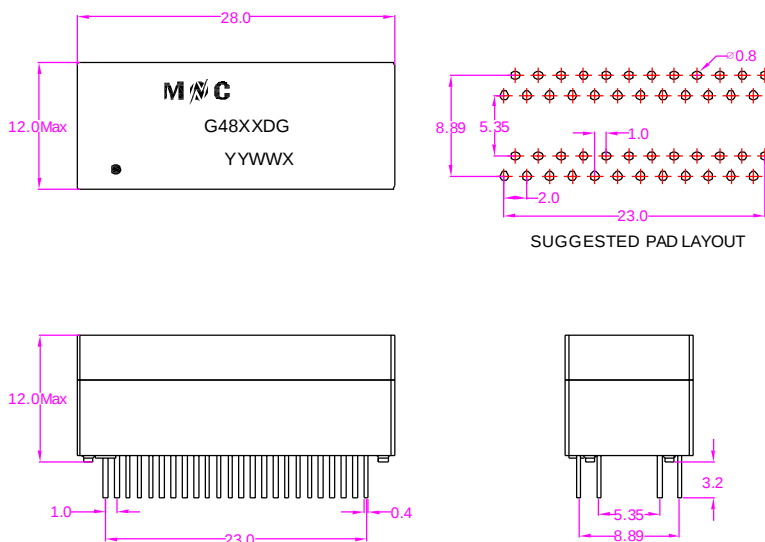
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .



## Electrical Specifications @25°C

| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G4801DG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

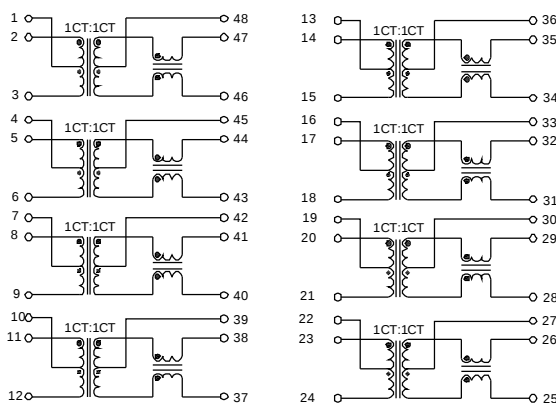
## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

### G4801DG



### G4801DG

Weight.....4.50 grams  
Tube.....18 pcs  
Small Carton.....720 pcs  
Big Carton.....2880 pcs

- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .

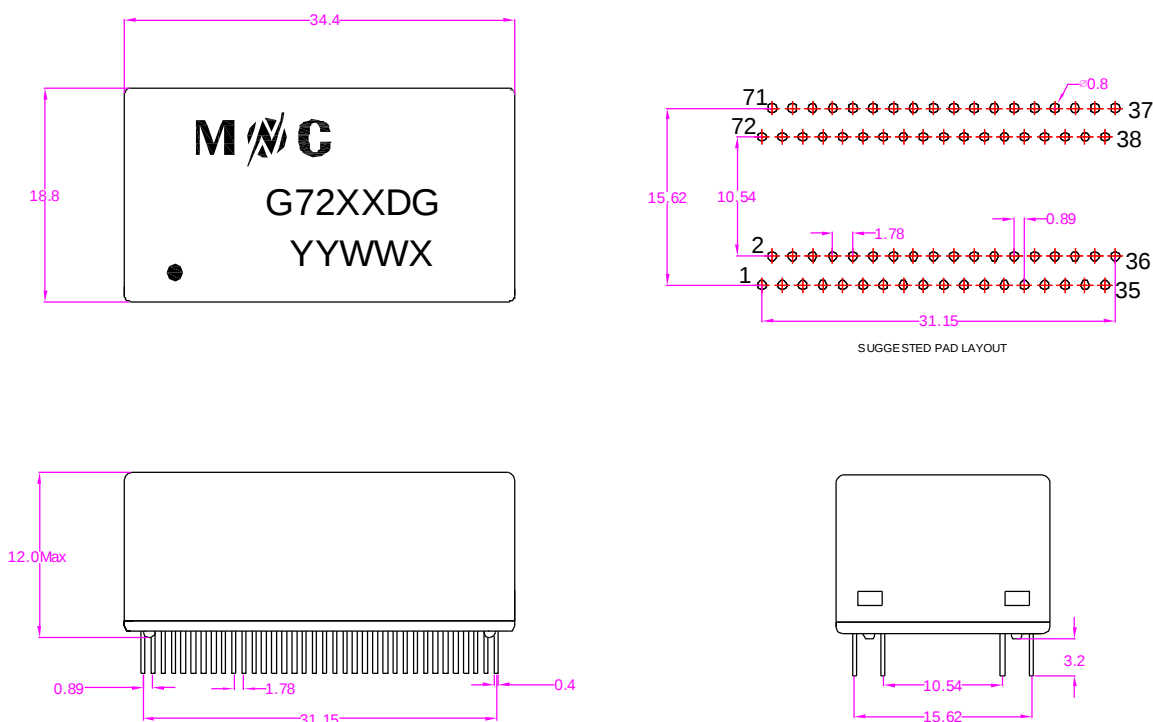


## Electrical Specifications @25°C

| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G7201DG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |
| G7216DG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL

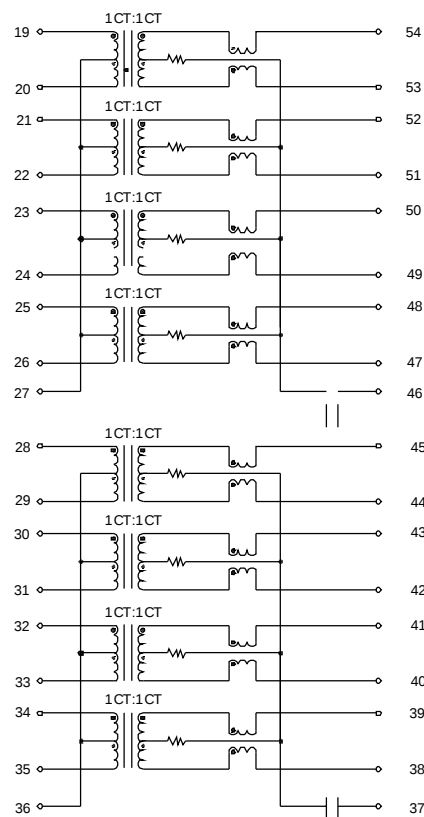
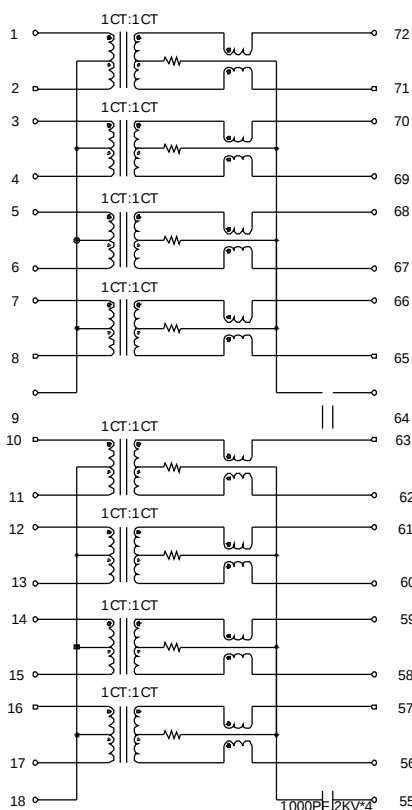
G7201DG,G7216DG



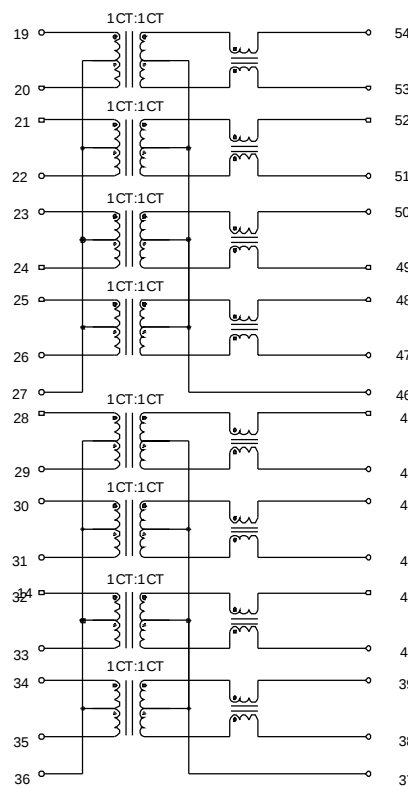
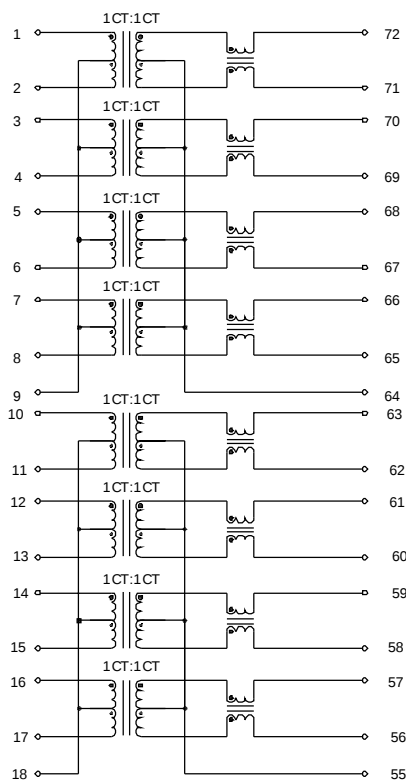
Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

G7201DG



G7216DG



G7201DG

Weight.....10.58grams  
Tube.....14 pcs  
Small Carton.....252 pcs  
Big Carton.....1008 pcs

G7216DG

Weight.....10.30 grams  
Tube.....14 pcs  
Small Carton.....252 pcs  
Big Carton.....1008 pcs

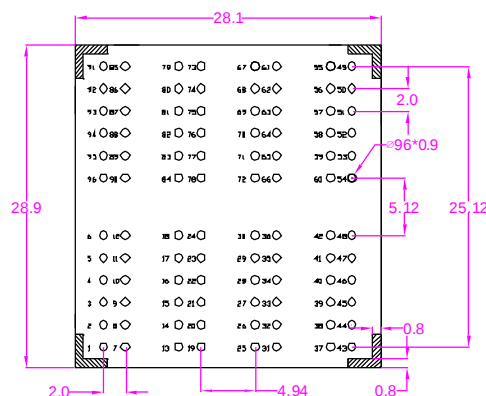
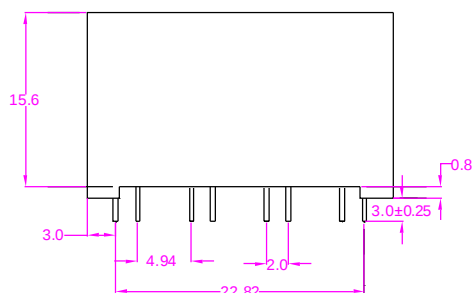
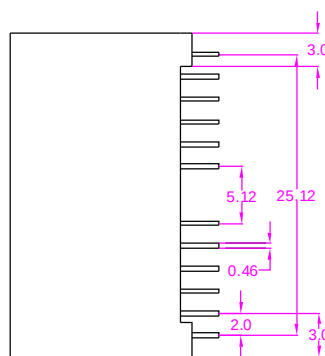
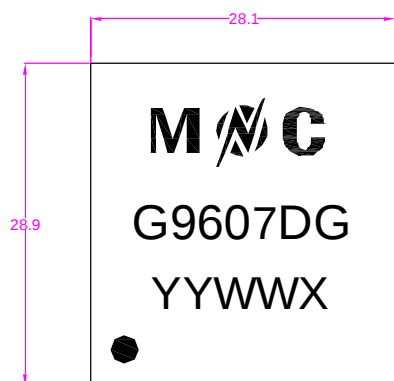
- Meets IEEE 802.3 & ANSI X3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Through-Hole Type .
- Operating temperature range: 0 °C to +70 °C .



## Electrical Specifications @25°C

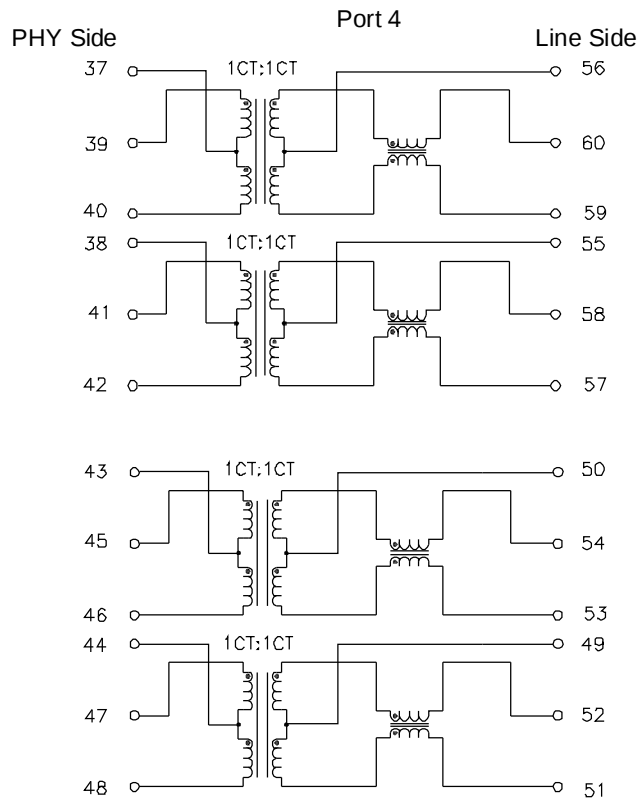
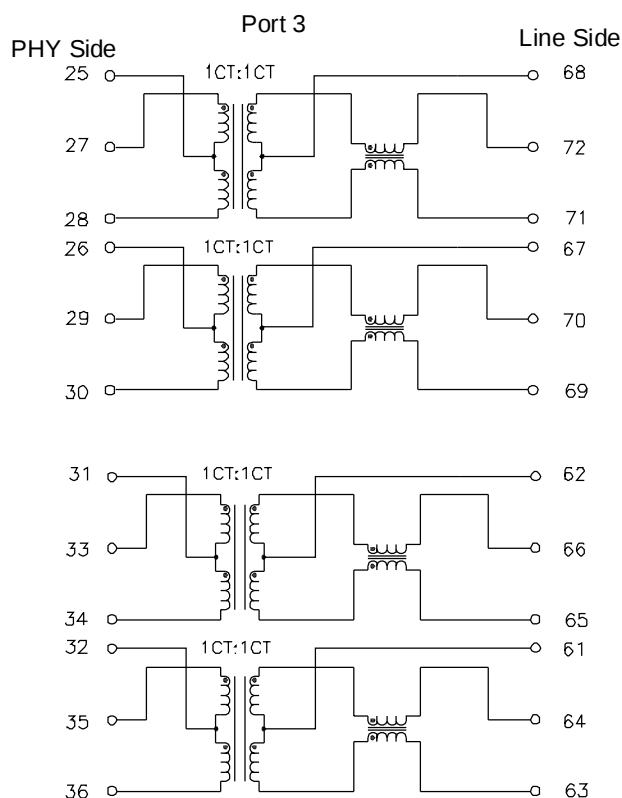
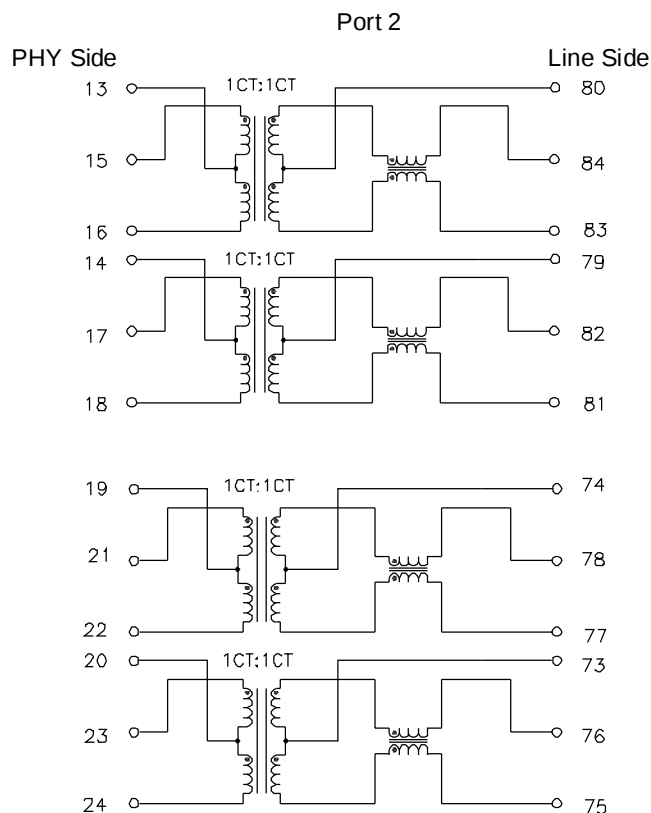
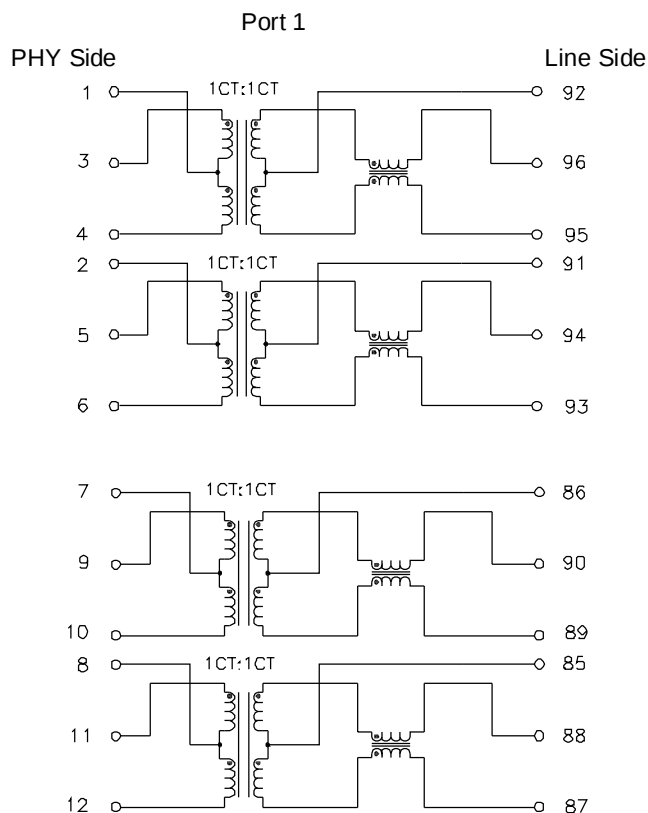
| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G9607DG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL



NO COMPONENT AREA.  
Suggested Customer PCB Layout  
(Component Side)

## SCHEMATICS



### G9607DG

Weight.....13.07 grams  
Tube.....17 pcs  
Small Carton.....170 pcs  
Big Carton.....680 pcs

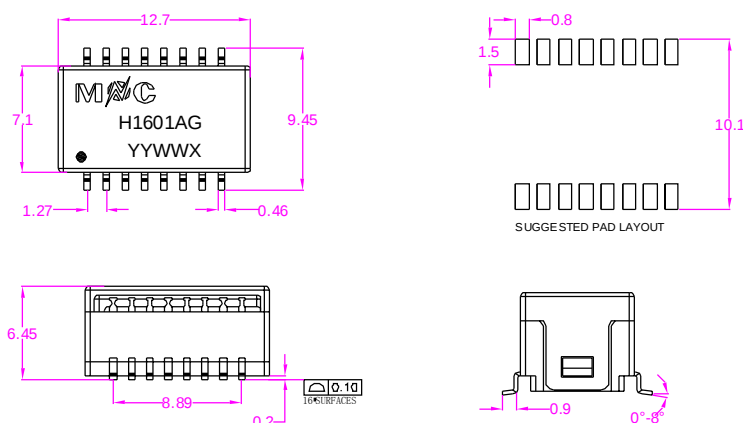
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

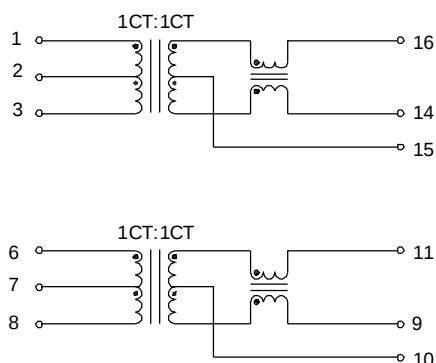
| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  |           | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|-----------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-30MHz                  | 30.1-60MHz              | 60.1-80MHz       | 0.5-40MHz | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| H1601AG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



H1601AG

Weight.....0.82 grams  
Reel.....500 pcs

- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.

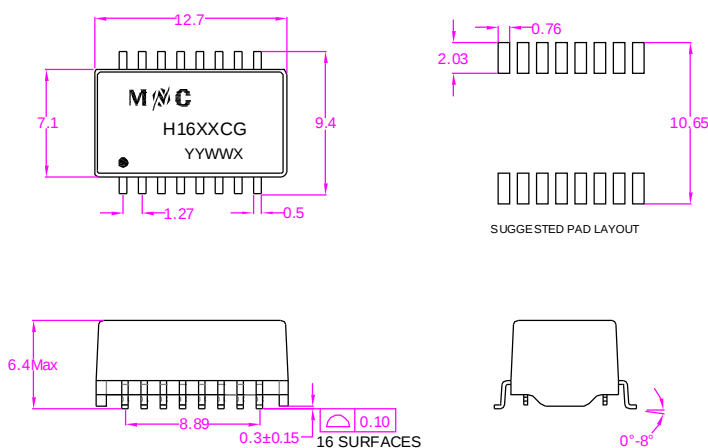


## Electrical Specifications @25°C

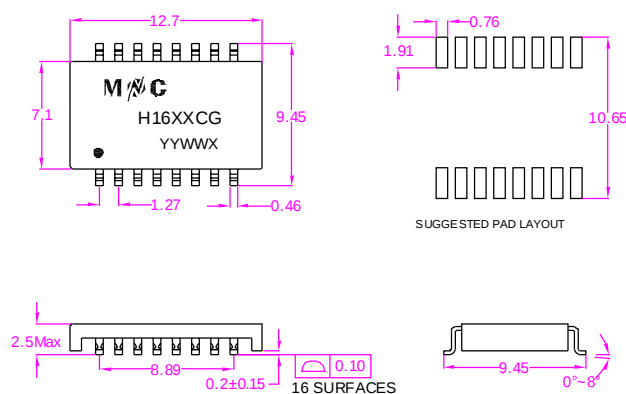
| Part Number | OCL(uH)<br>100KHz, 0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  |           | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|-------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|-----------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                      |                      | 0.5-30MHz                  | 30.1-60MHz              | 60.1-80MHz       | 0.5-40MHz | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| H1601CG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |
| H1604CG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |
| H1606CG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |
| H1631CG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL

H1601CG H1604CG



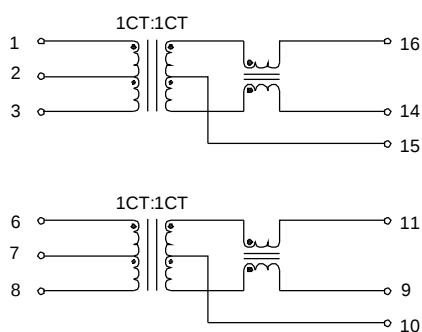
H1631CG



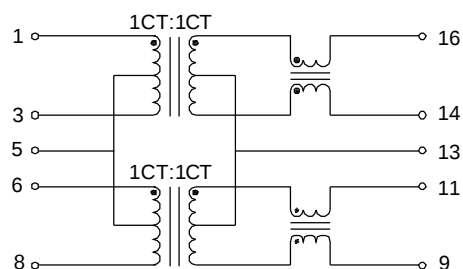
Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

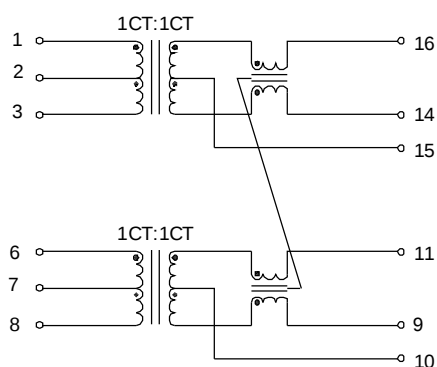
H1601CG



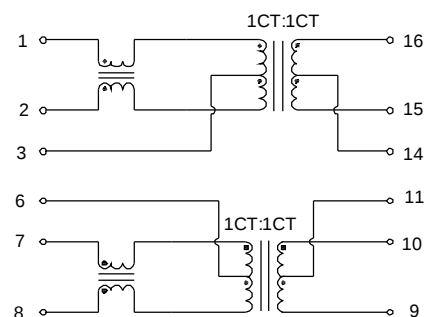
H1604CG



H1606CG



H1631CG



H1601CG

Weight.....0.71 grams  
Reel.....600 pcs

H1604CG

Weight.....0.67 grams  
Reel.....600 pcs

H1606CG

Weight.....0.66 grams  
Reel.....400 pcs

H1631CG

Weight.....0.28 grams  
Reel.....1400 pcs

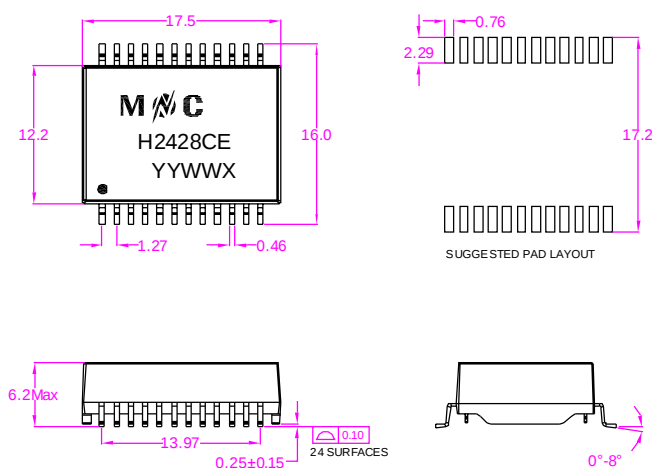
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: -40 °C to +85 °C.



## Electrical Specifications @25°C

| Part Number | OCL(μH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  |           | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|-----------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-30MHz                  | 30.1-60MHz              | 60.1-80MHz       | 0.5-40MHz | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| H2428CE     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |

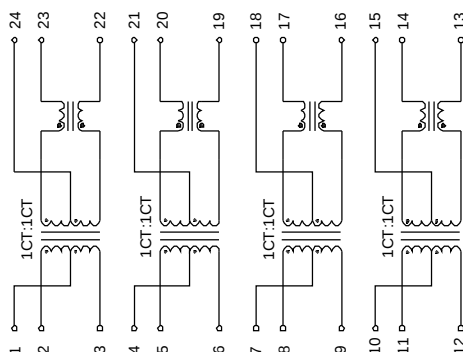
## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

H2428CE



H2428CE

Weight.....1.58 grams  
Reel.....400 pcs

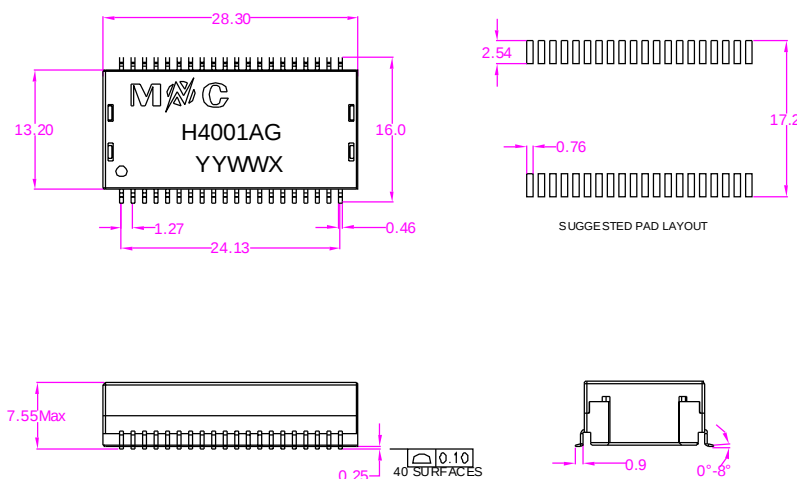
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

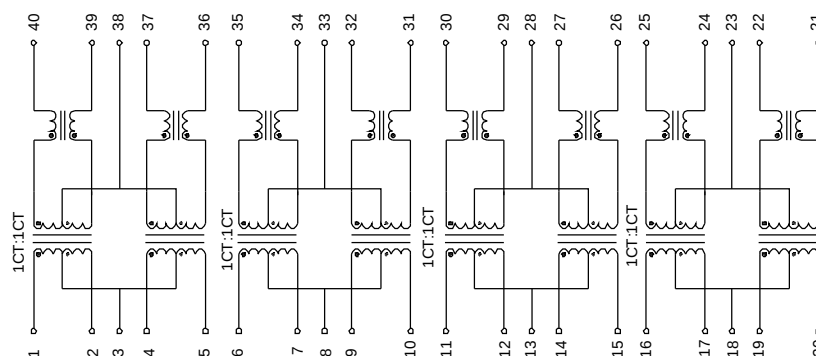
| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  |           | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|-----------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-30MHz                  | 30.1-60MHz              | 60.1-80MHz       | 0.5-40MHz | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| H4001AG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



H4001AG

Weight.....3.17 grams  
Reel.....300 pcs

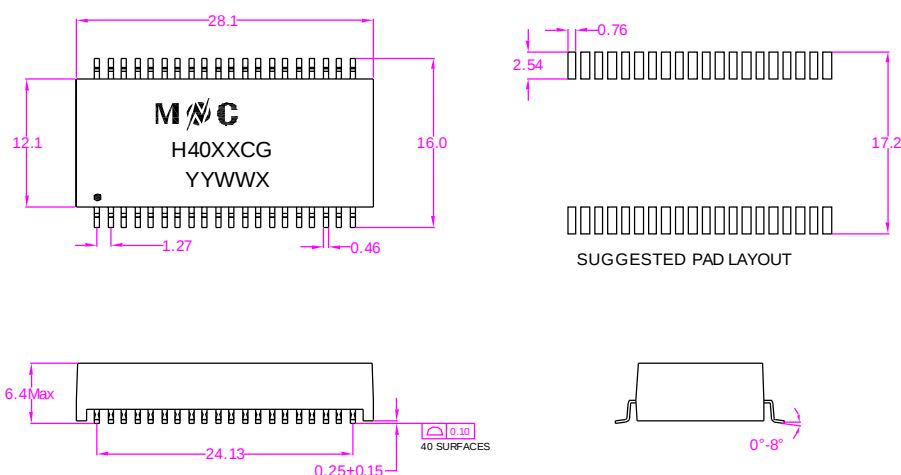
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  |           | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|-----------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-30MHz                  | 30.1-60MHz              | 60.1-80MHz       | 0.5-40MHz | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| H4001CG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -12       | -35                    | -33+20*log(f/50) | -30              | 1500             |

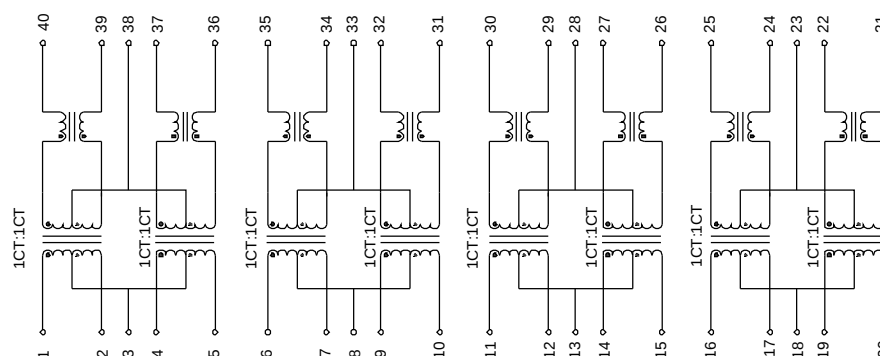
## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

H4001CG



H4001CG

Weight.....2.3 grams  
Reel.....400 pcs

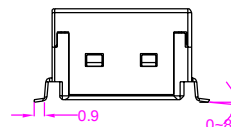
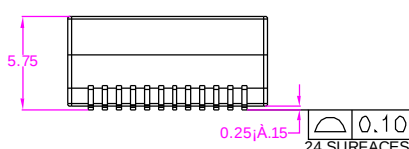
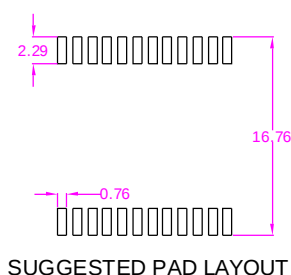
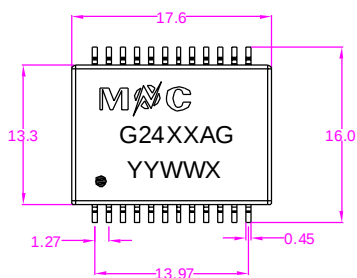
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

| Part Number | OCL(uH)<br>100KHz, 0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|-------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             |                                                 |                      | 0.5-100MHz                 | 0.5-40MHz               | 10.1-100MHz      | 0.5-40MHz              | 40.1-100MHz      |                  |                  |
| G2405AG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |
| G2497AG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

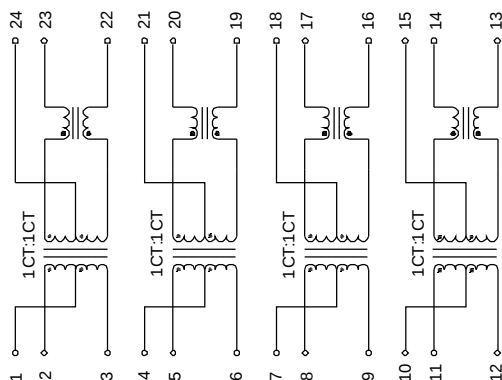
## MECHANICAL



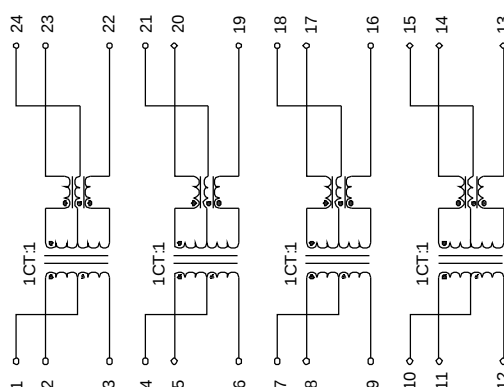
Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

G2405AG



G2497AG



G2405AG

Weight.....1.55 grams  
Reel.....400 pcs

G2497AG

Weight.....1.66 grams  
Reel.....400 pcs

- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.

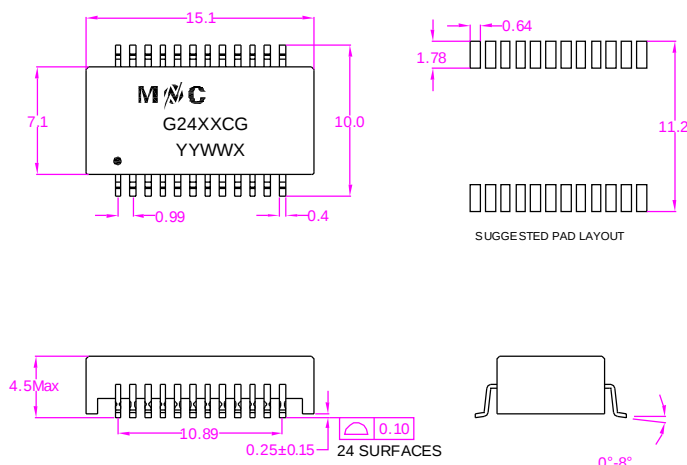


## Electrical Specifications @25°C

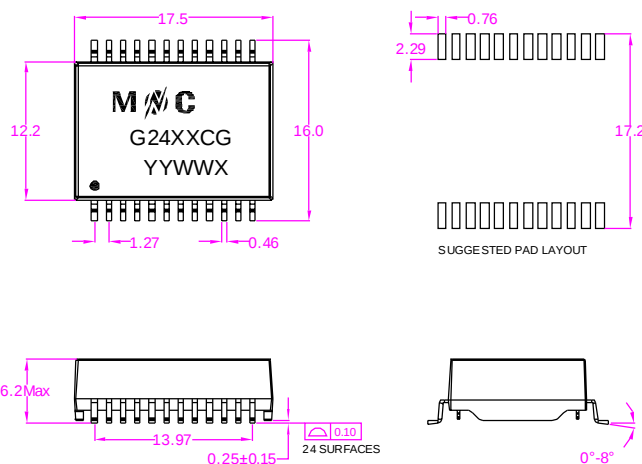
| Part Number | OCL(μH)<br>100KHz, 0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|-------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                      |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G2401CG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |
| G2405CG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |
| G2497CG     | 350uH                                           | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL

### G2401CG



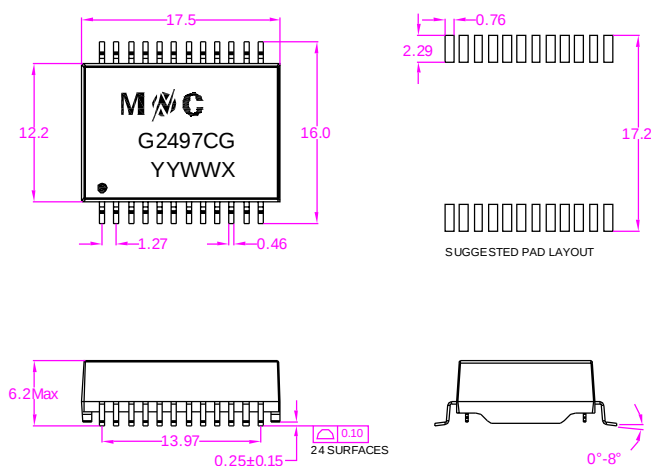
### G2405CG



Unless otherwise specified all tolerances are: ±0.25 in mm

## MECHANICAL

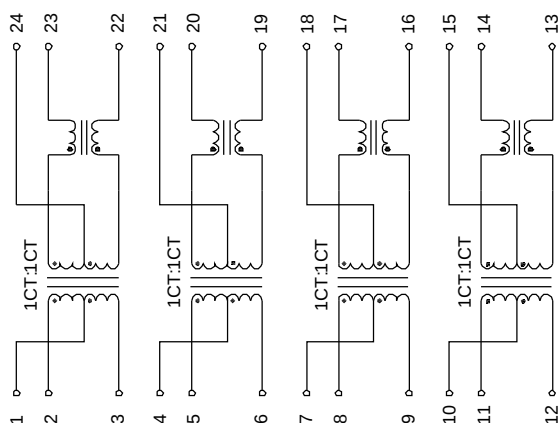
G2497CG



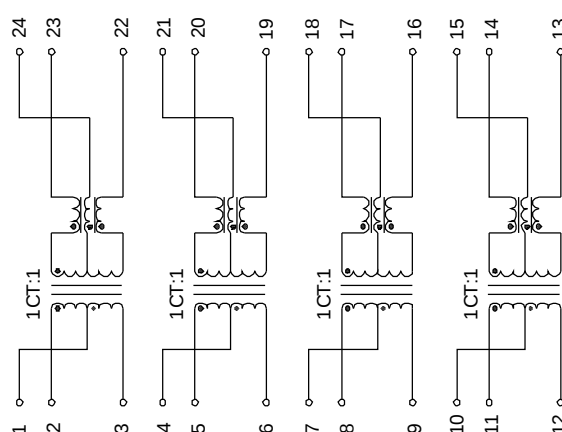
Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS

G2401CG,G2405CG



G2497CG



G2401CG

Weight.....0.68 grams  
Reel.....850 pcs

G2405CG

Weight.....1.50 grams  
Reel.....400 pcs

G2497CG

Weight.....1.69 grams  
Reel.....400 pcs

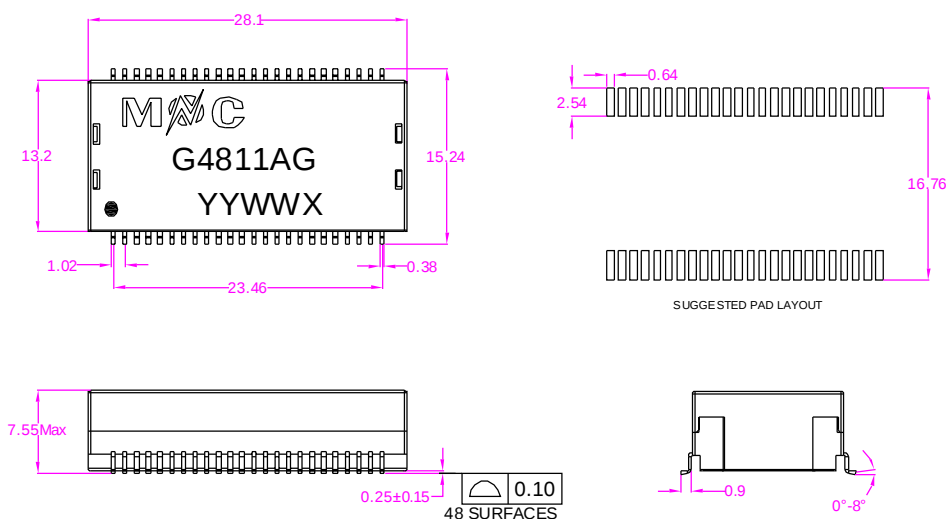
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

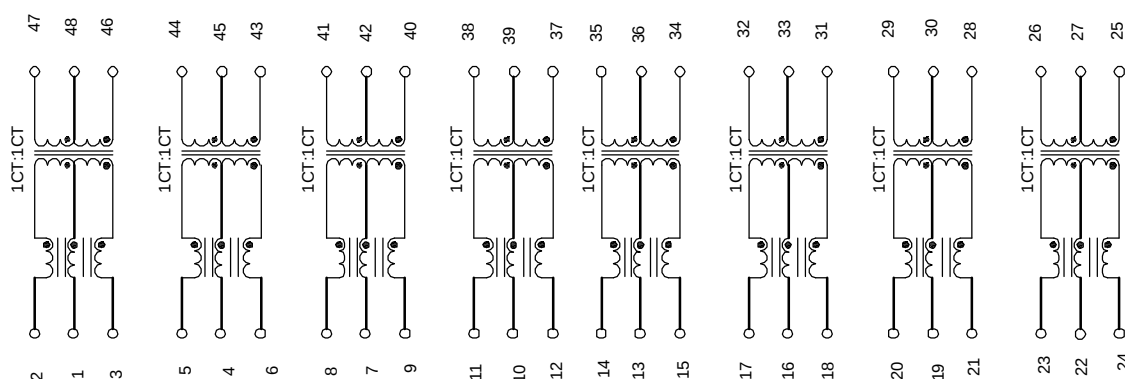
| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G4811AG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



**G4811AG**

Weight.....3.30 grams  
Reel.....300 pcs

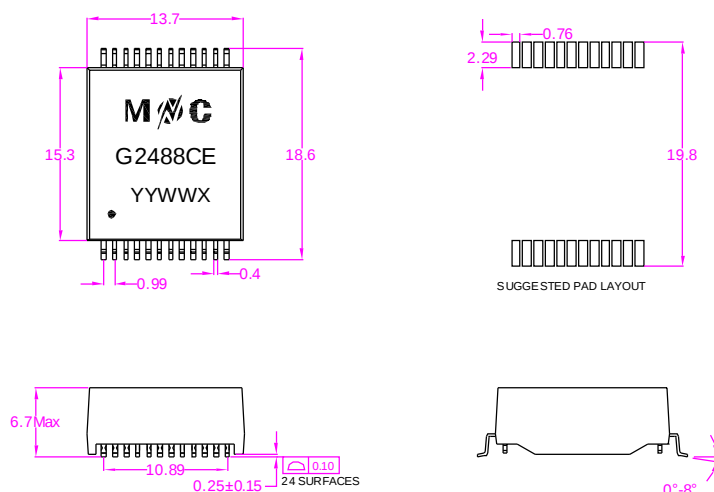
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 10/100 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: -40 °C to +85 °C.



## Electrical Specifications @25°C

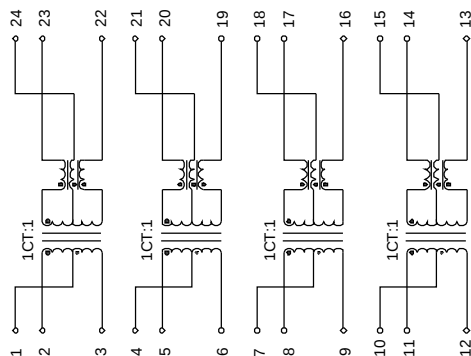
| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G2488CE     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



G2488CE

Weight.....1.60 grams  
Reel.....400 pcs

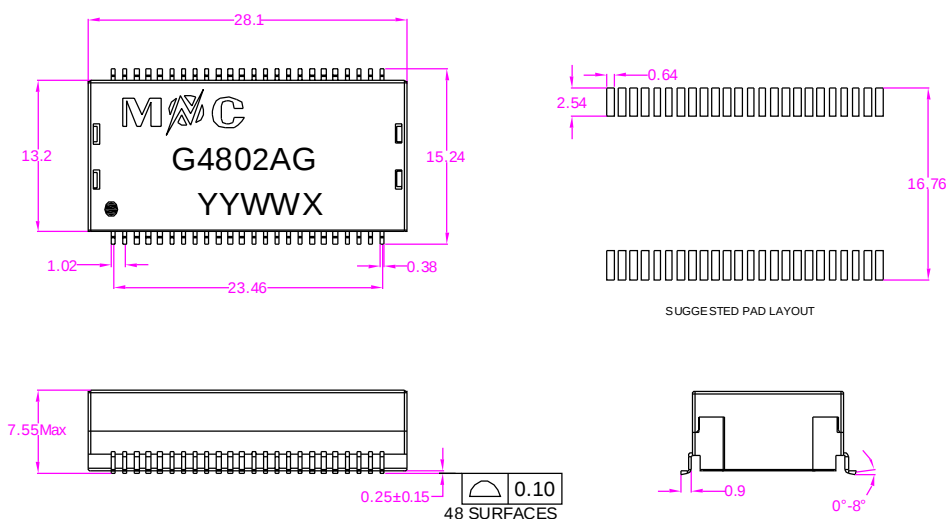
- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Assembly Header.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

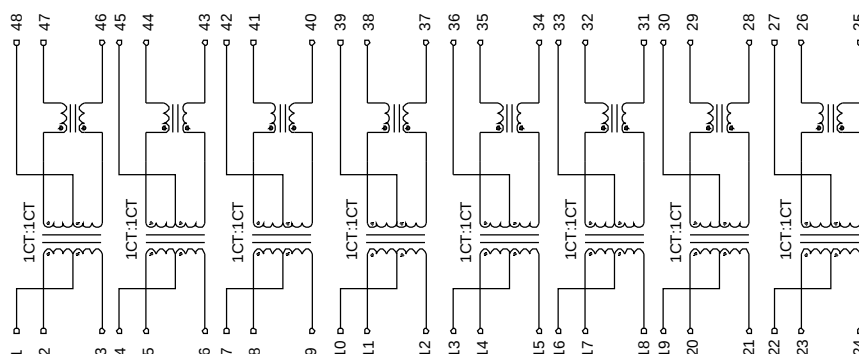
| Part Number | OCL(μH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G4802AG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



**G4802AG**

Weight.....3.10 grams  
Reel.....300 pcs

- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.

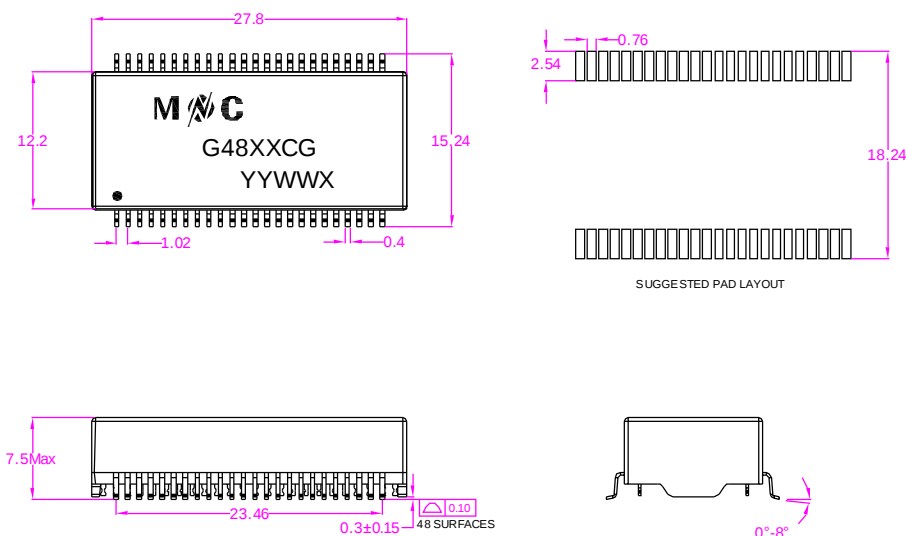


## Electrical Specifications @25°C

| Part Number | OCL(μH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G4802CG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |
| G4812CG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

## MECHANICAL

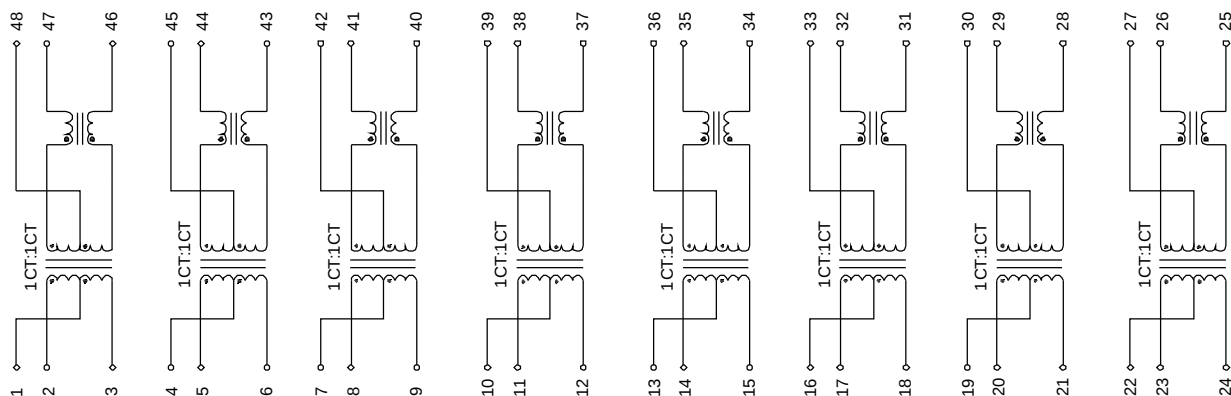
G4802CG , G4812CG



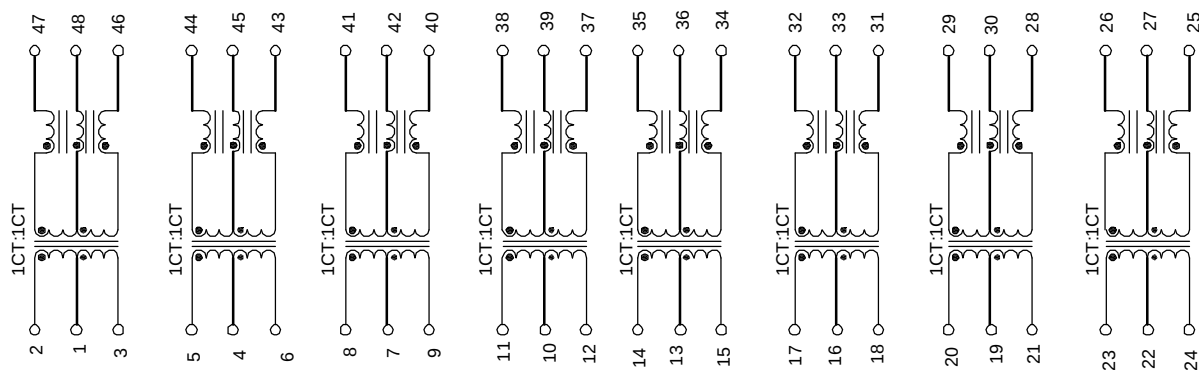
Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

G4802CG



G4812CG



G4802CG

Weight.....3.28 grams  
Reel.....300 pcs

G4812CG

Weight.....3.04 grams  
Reel.....300 pcs

- Meets IEEE 802.3 & ANSI X 3.263 Standards.
- RoHS Compliant.
- 100/1000 Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.

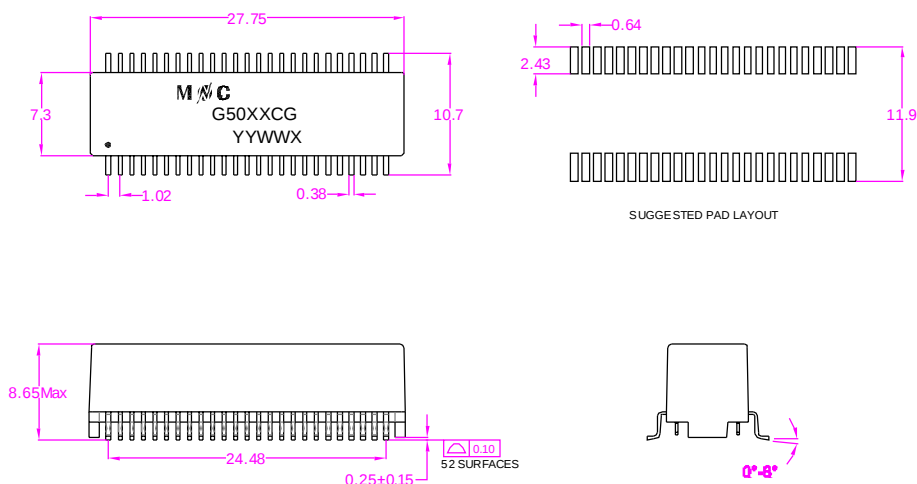


## Electrical Specifications @25°C

| Part Number | OCL(uH)<br>100KHz,0.1Vrms,<br>With 8mA DC Bias | Turns Ratio<br>(±5%) | Insertion Loss<br>(dB Max) | Return Loss<br>(dB Min) |                  | Cross talk<br>(dB Min) |                  | CMRR<br>(dB Min) | HI-POT<br>(Vrms) |
|-------------|------------------------------------------------|----------------------|----------------------------|-------------------------|------------------|------------------------|------------------|------------------|------------------|
|             | 0.5-100MHz                                     |                      | 0.5-40MHz                  | 10.1-100MHz             | 0.5-40MHz        | 40.1-100MHz            | 0.5-100MHz       |                  |                  |
| G5002CG     | 350uH                                          | 1CT:1CT              | -1.1                       | -18                     | -18+20*log(f/30) | -35                    | -33+20*log(f/50) | -30              | 1500             |

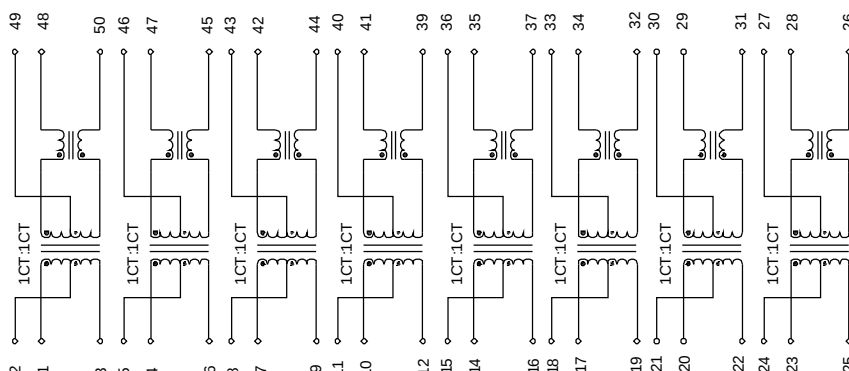
## MECHANICAL

G5002CG



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



G5002CG

Weight.....2.58 grams  
Reel.....450 pcs

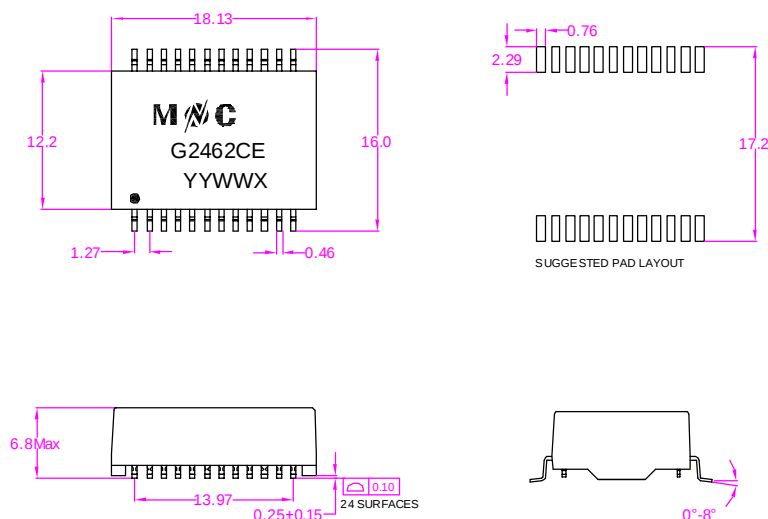
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 720mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: -40 °C to +85 °C.



## Electrical Specifications @25 °C

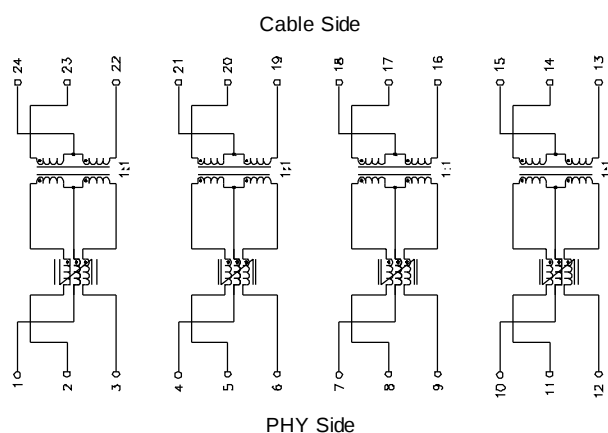
| Part Number | OCL(uH Min)<br>@100KHz, 0.1V<br>With 21mA DC Bias@25°C        | Return Loss (dB Min) (Z OUT = 100 OHM ±15%) |                         | Cross talk (dB Min)        |                       | REJECTION RATIO COMMON MODE (dB Min) |                   |
|-------------|---------------------------------------------------------------|---------------------------------------------|-------------------------|----------------------------|-----------------------|--------------------------------------|-------------------|
|             |                                                               | 1-40MHz                                     | 40.1-100MHz             | 1MHz                       | 10-100MHz             | 2MHz                                 | 30-200MHz         |
| G2462CE     | 350                                                           | -16                                         | -10+20*log(f/80)        | -50                        | -55+22*log(f/10)      | -50                                  | -15+20*log(f/200) |
|             | Continue                                                      |                                             |                         |                            |                       |                                      |                   |
|             | OCL(uH Min)<br>@100KHz, 0.1V<br>With 21mA DC Bias@-40°C&+85°C | Turns Ratio<br>(±2%)                        | Insertion Loss (dB Max) |                            | DC RESISTANCE BALANCE | C <sub>ww</sub> (pF TYP)             | HI-POT<br>(Vrms)  |
|             | 300                                                           | 1CT:1CT                                     | -1.2                    | -0.2-0.002f <sup>1.4</sup> | ±.05 OHMS Max         | 1MHz                                 | 1500              |

## MECHANICAL



Unless otherwise specified all tolerances are:±0.25 in mm

## SCHEMATICS



G2462CE

Weight.....2.31 grams  
Reel.....400 pcs

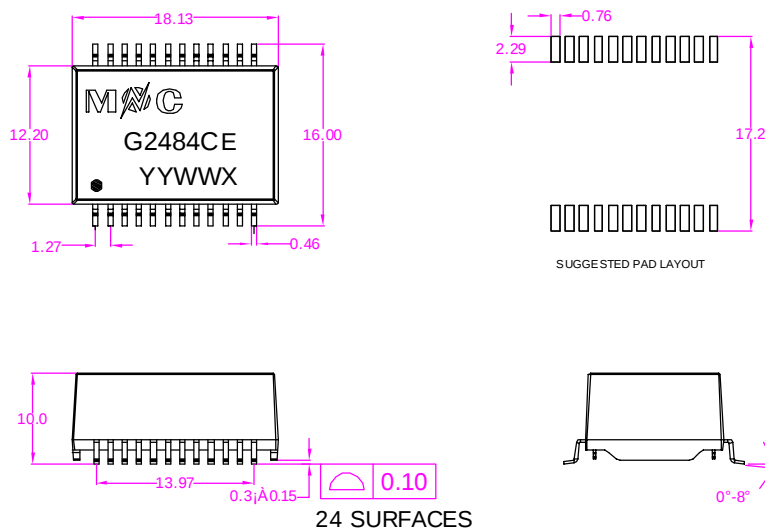
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 850mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: -40 °C to +85 °C.



## Electrical Specifications @25 °C

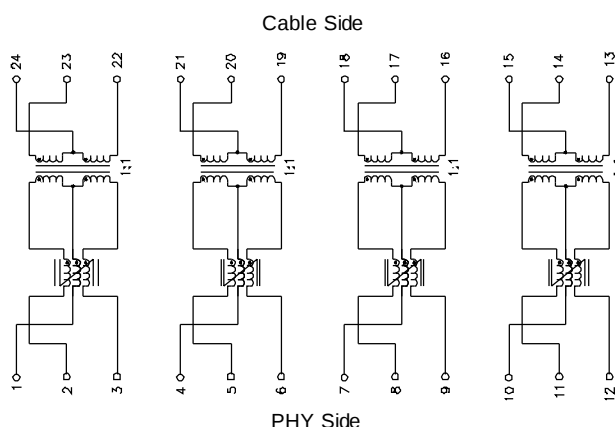
| Part Number | OCL(μH Min)<br>@100KHz, 0.1V<br>With 25mA DC Bias@25°C        | Return Loss (dB Min) (Z OUT = 100 OHM ±15%) |                         | Cross talk (dB Min)        |                       | REJECTION RATIO COMMON MODE (dB Min) |                   |
|-------------|---------------------------------------------------------------|---------------------------------------------|-------------------------|----------------------------|-----------------------|--------------------------------------|-------------------|
|             |                                                               | 1-40MHz                                     | 40.1-100MHz             | 1MHz                       | 10-100MHz             | 2MHz                                 | 30-200MHz         |
| G2484CE     | 350                                                           | -16                                         | -10+20*log(f/80)        | -50                        | -55+22*log(f/10)      | -50                                  | -15+20*log(f/200) |
|             | Continue                                                      |                                             |                         |                            |                       |                                      |                   |
|             | OCL(μH Min)<br>@100KHz, 0.1V<br>With 25mA DC Bias@-40°C&+85°C | Turns Ratio<br>(±2%)                        | Insertion Loss (dB Max) |                            | DC RESISTANCE BALANCE | Cww (pF TYP)                         | HI-POT<br>(Vrms)  |
|             | 300                                                           | 1CT:1CT                                     | -1.2                    | -0.2-0.002f <sup>1.4</sup> | ±.05 OHMS Max         | 1MHz                                 | 1500              |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



G2484CE

Weight.....2.95 grams  
Reel.....200 pcs

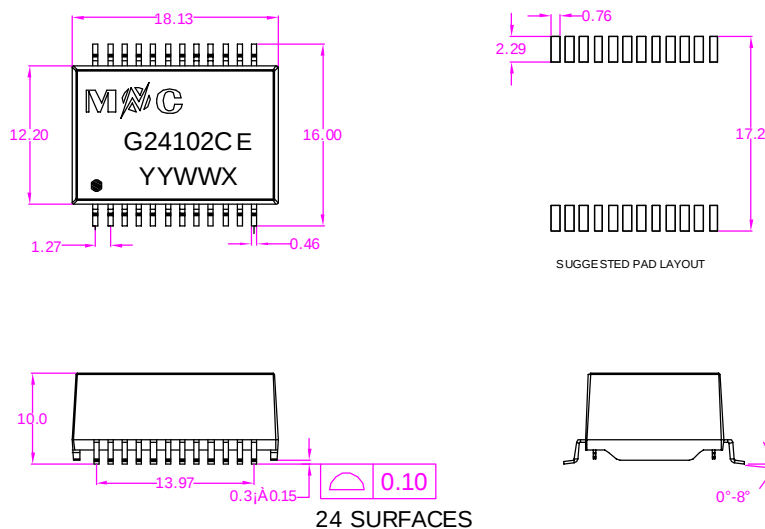
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 1150mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: -40 °C to +85 °C.



## Electrical Specifications @25 °C

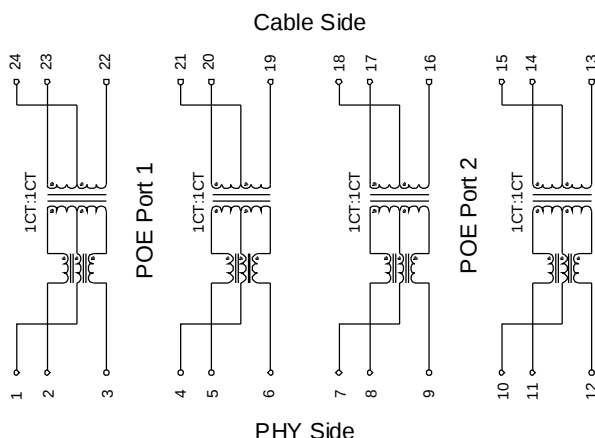
| Part Number | OCL(uH Min)<br>@ 100KHz, 0.1V<br>With 25mA DC Bias @ -40°C & +85°C | Return Loss (dB Min) (Z OUT = 100 OHM ±15%) |                         | Cross talk (dB Min)        |                       | REJECTION RATIO COMMON MODE (dB Min) |                   |
|-------------|--------------------------------------------------------------------|---------------------------------------------|-------------------------|----------------------------|-----------------------|--------------------------------------|-------------------|
|             |                                                                    | 1-40MHz                                     | 40.1-100MHz             | 1MHz                       | 10-100MHz             | 2MHz                                 | 30-200MHz         |
| G24102CE    | 350                                                                | -16                                         | -10+20*log(f/80)        | -50                        | -55+22*log(f/10)      | -50                                  | -15+20*log(f/200) |
|             | Continue                                                           |                                             |                         |                            |                       |                                      |                   |
|             | OCL(uH Min)<br>@ 100KHz, 0.1V<br>With 35mA DC Bias @ -40°C & +85°C | Turns Ratio<br>(±2%)                        | Insertion Loss (dB Max) |                            | DC RESISTANCE BALANCE | C <sub>ww</sub> (pF TYP)             | HI-POT<br>(Vrms)  |
|             |                                                                    |                                             | 100KHz                  | 1-125MHz                   | ±.05 OHMS Max         | 1MHz                                 |                   |
|             | 135                                                                | 1CT:1CT                                     | -1.2                    | -0.2-0.002f <sup>1.4</sup> | CENTER TAP SYMMETRY   | 25                                   | 1500              |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



G24102CE

Weight.....3.20 grams  
Reel.....200 pcs

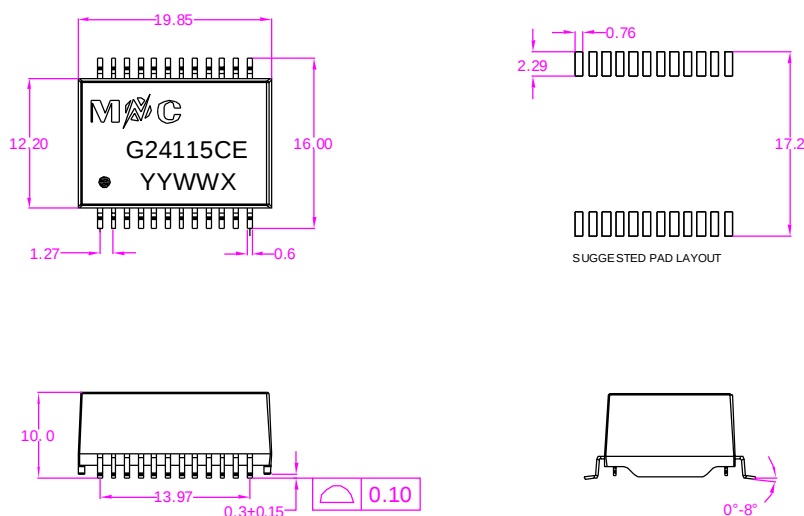
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 1500mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: -40 °C to +85 °C.



## Electrical Specifications @25 °C

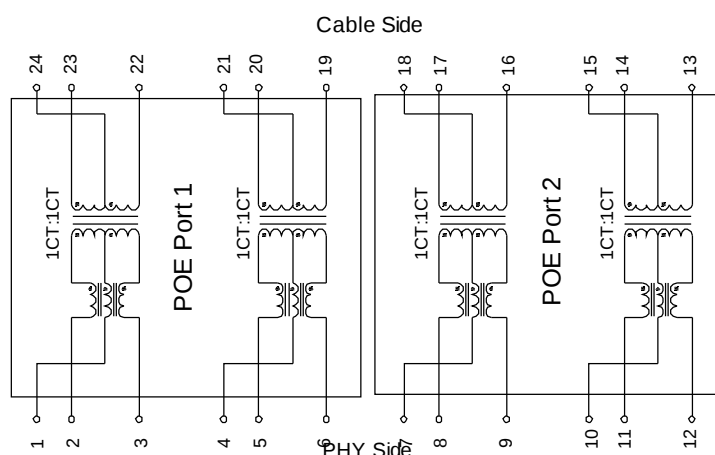
| Part Number | OCL(uH Min)<br>@100KHz, 0.1V<br>With 45mA DC Bias@-40°C&+85°C | Return Loss (dB Min) (Z OUT = 100 OHM ±15%) |                             | Cross talk (dB Min)   |                  | REJECTION RATIO COMMON MODE (dB Min) |                   |
|-------------|---------------------------------------------------------------|---------------------------------------------|-----------------------------|-----------------------|------------------|--------------------------------------|-------------------|
|             |                                                               | 1-40MHz                                     | 40.1-100MHz                 | 1MHz                  | 10-100MHz        | 2MHz                                 | 30-200MHz         |
| G24115CE    | 200                                                           | -16                                         | -10+20*log(f/80)            | -50                   | -55+22*log(f/10) | -50                                  | -15+20*log(f/200) |
|             | Continue                                                      |                                             |                             |                       |                  |                                      |                   |
|             | Turns Ratio<br>(±2%)                                          | Insertion Loss (dB Max)                     |                             | DC RESISTANCE BALANCE |                  | Cww (pF TYP)                         | HI-POT<br>(Vrms)  |
|             |                                                               | 100KHz                                      | 1-125MHz                    | ±.05 OHMS Max         |                  | 1MHz                                 |                   |
|             | 1CT:1CT                                                       | -1.2                                        | -0.2-0.002*f <sup>1.4</sup> | CENTER TAP SYMMETRY   |                  | 25                                   | 1500              |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



### G24115CE

Weight.....3.44 grams  
Reel.....200 pcs

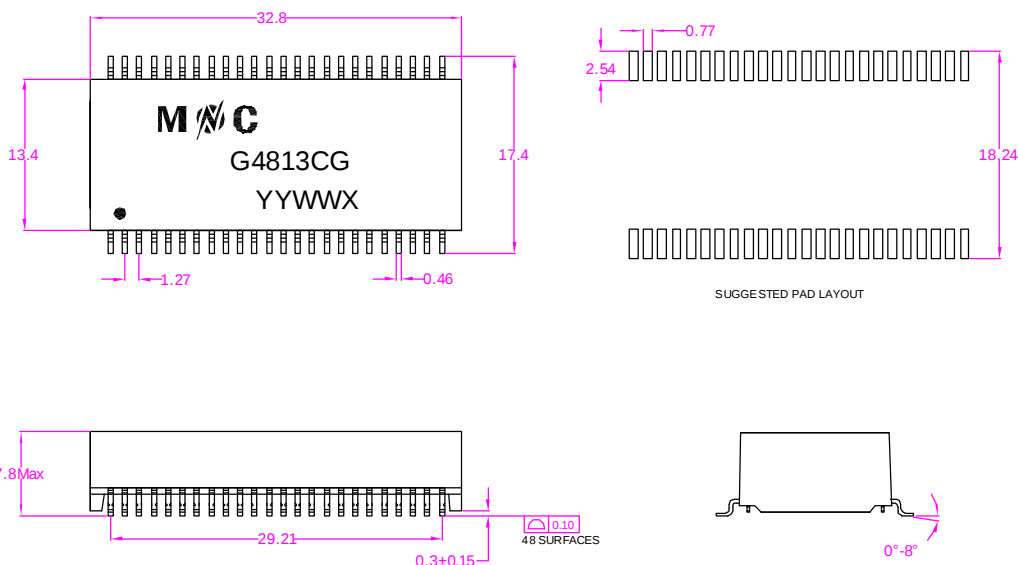
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 720mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25 °C

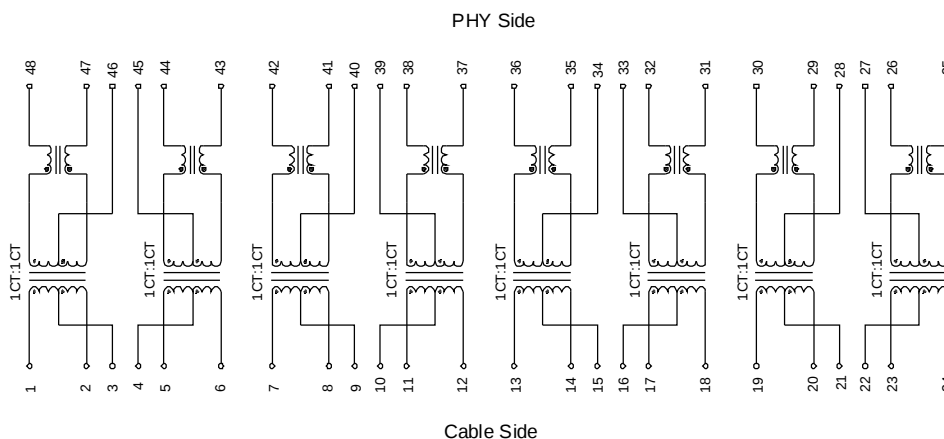
| Part Number | OCL(uH Min)<br>@100KHz, 0.1V<br>With 21mA DC Bias@25°C | Return Loss (dB Min) (Z OUT = 100 OHM ±15%) |                             | Cross talk (dB Min)   |                  | REJECTION RATIO COMMON MODE (dB Min) |                   |
|-------------|--------------------------------------------------------|---------------------------------------------|-----------------------------|-----------------------|------------------|--------------------------------------|-------------------|
|             |                                                        | 1-40MHz                                     | 40.1-100MHz                 | 1MHz                  | 10-100MHz        | 2MHz                                 | 30-200MHz         |
| G4813CG     | 350                                                    | -16                                         | -10+20*log(f/80)            | -50                   | -55+22*log(f/10) | -50                                  | -15+20*log(f/200) |
|             | Continue                                               |                                             |                             |                       |                  |                                      |                   |
|             | Turns Ratio<br>(±2%)                                   | Insertion Loss (dB Max)                     |                             | DC RESISTANCE BALANCE |                  | Cww (pF TYP)                         | HI-POT<br>(Vrms)  |
|             |                                                        | 100KHz                                      | 1-125MHz                    | ±.05 OHMS Max         |                  | 1MHz                                 |                   |
|             | 1CT:1CT                                                | -1.2                                        | -0.2-0.002*f <sup>1.4</sup> | CENTER TAP SYMMETRY   |                  | 25                                   | 1500              |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



G4813CG

Weight.....4.20 grams  
Reel.....250 pcs

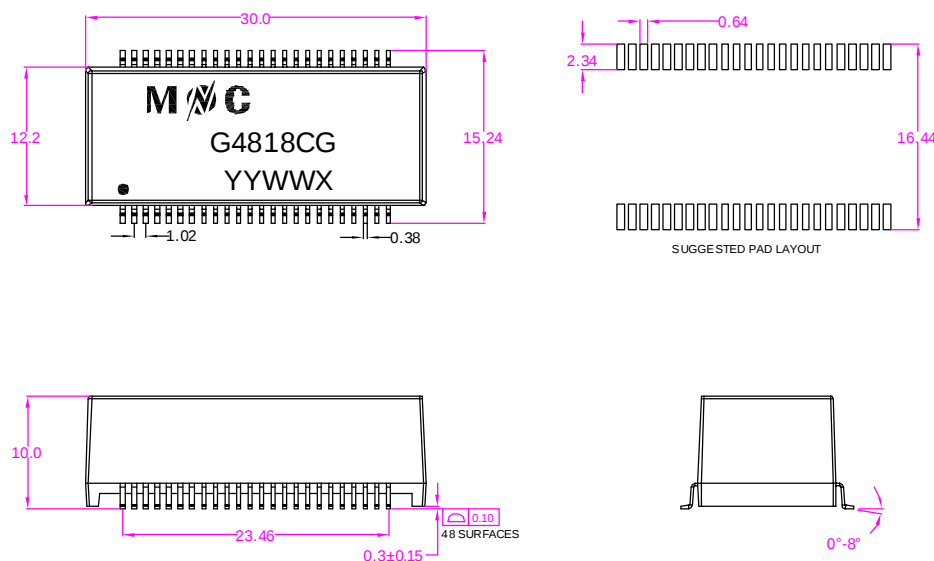
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 10/100/1000 Base-T, Surface Mount Type, Open Header.
- 720mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25 °C

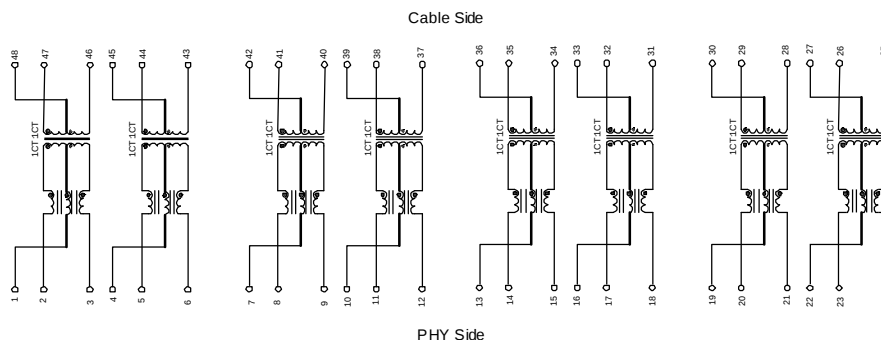
| Part Number | OCL(uH Min)<br>@100KHz, 0.1V<br>With 21mA DC Bias@25°C | Return Loss (dB Min) (Z OUT = 100 OHM ±15%) |                             | Cross talk (dB Min)   |                  | REJECTION RATIO COMMON MODE (dB Min) |                   |
|-------------|--------------------------------------------------------|---------------------------------------------|-----------------------------|-----------------------|------------------|--------------------------------------|-------------------|
|             |                                                        | 1-40MHz                                     | 40.1-100MHz                 | 1MHz                  | 10-100MHz        | 2MHz                                 | 30-200MHz         |
| G4818CG     | 350                                                    | -16                                         | -10+20*log(f/80)            | -50                   | -55+22*log(f/10) | -50                                  | -15+20*log(f/200) |
|             | Continue                                               |                                             |                             |                       |                  |                                      |                   |
|             | Turns Ratio<br>(±2%)                                   | Insertion Loss (dB Max)                     |                             | DC RESISTANCE BALANCE |                  | C <sub>ww</sub> (pF TYP)             | HI-POT<br>(Vrms)  |
|             |                                                        | 100KHz                                      | 1-125MHz                    | ±.05 OHMS Max         |                  | 1MHz                                 |                   |
|             | 1CT:1CT                                                | -1.2                                        | -0.2-0.002*f <sup>1.4</sup> | CENTER TAP SYMMETRY   |                  | 25                                   | 1500              |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



G4818CG

Weight.....5.28 grams  
Reel.....180 pcs

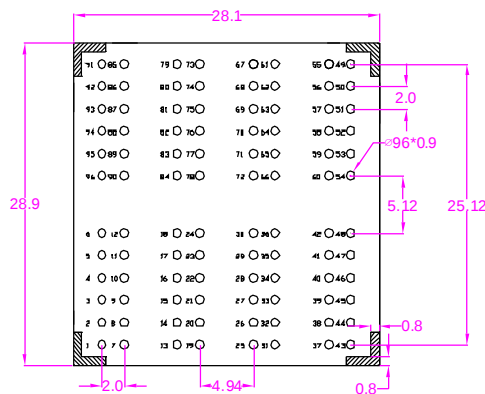
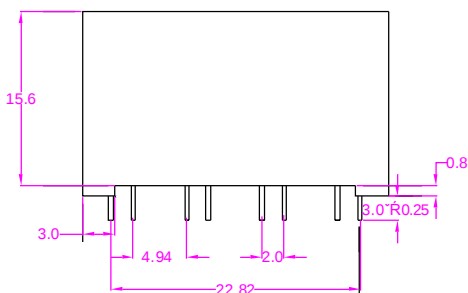
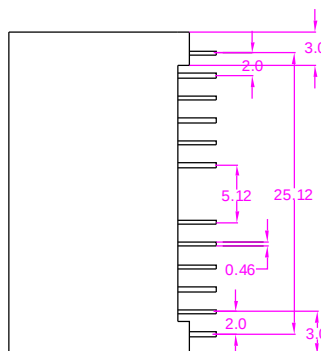
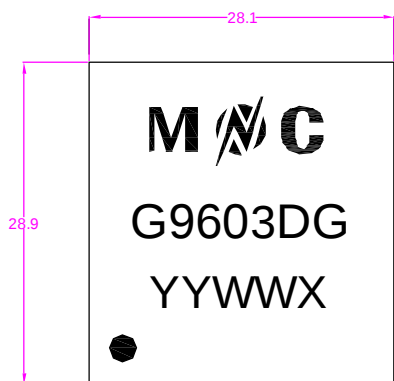
- Meets IEEE 802.3at & ANSI X3.263 Standards.
- Suitable For End-span and Mid-span PoE+ Applications.
- 100/1000 Base-T, Through -Hole Type.
- 700mA Current Capability Per POE Port.
- RoHS Compliant.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25 °C

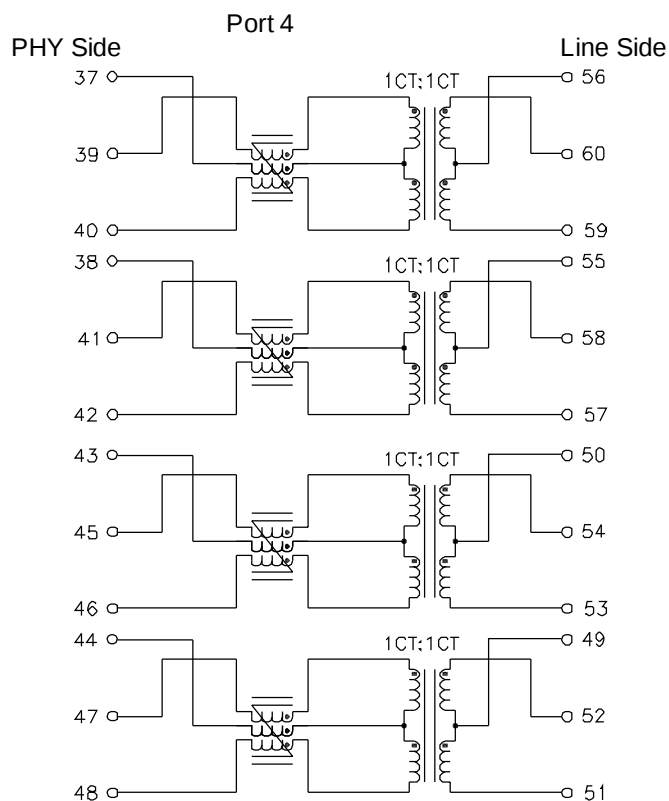
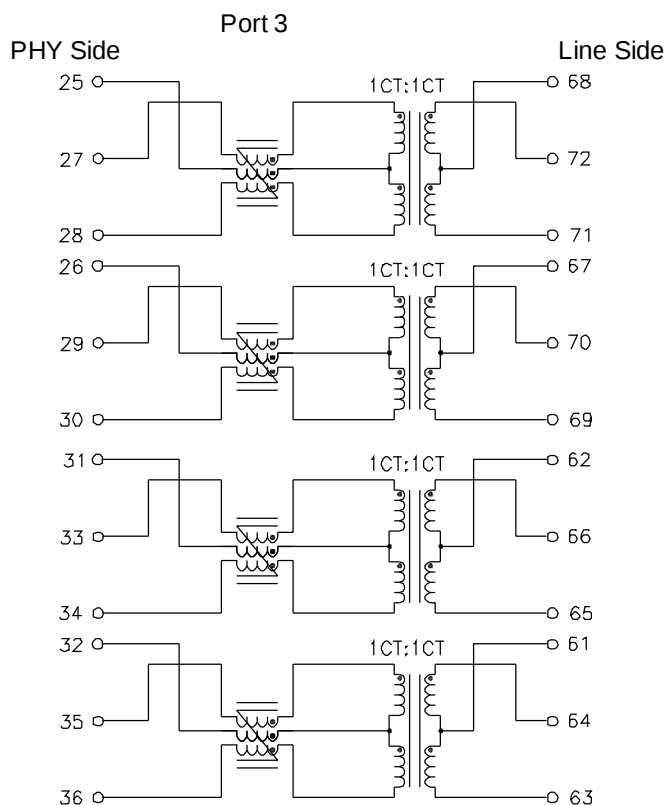
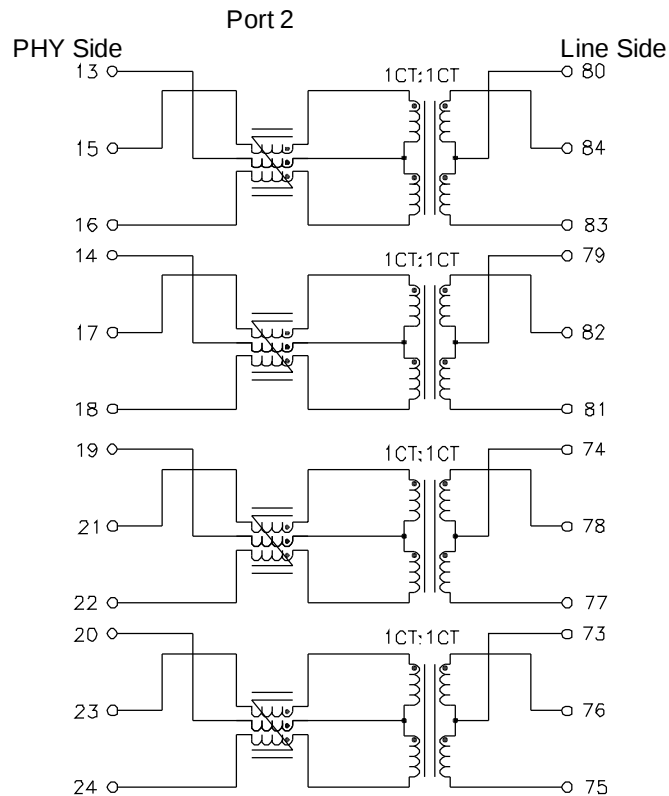
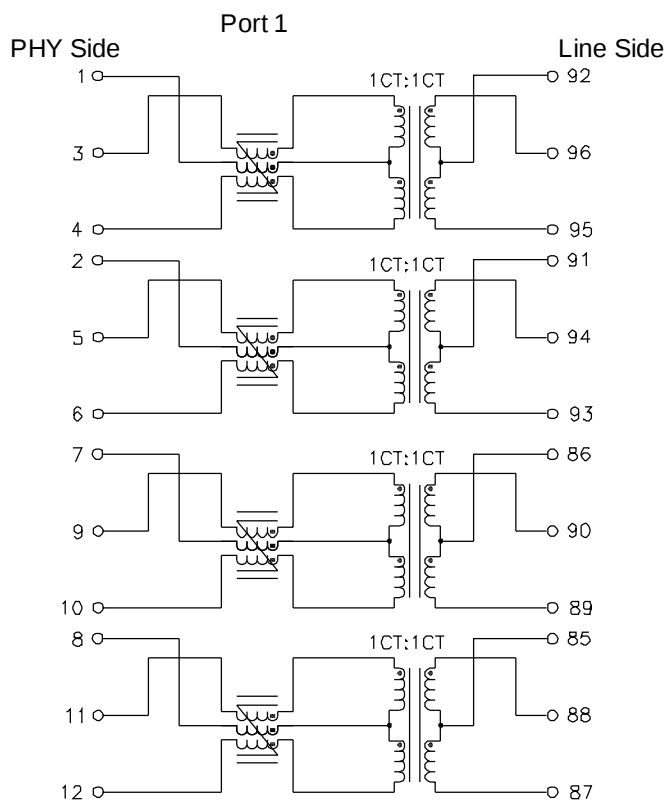
| Part Number | OCL(uH Min)<br>@100KHz, 0.1V<br>With 25mA DC Bias@25°C | Return Loss (dB Min) (Z OUT = 100 OHM ±15%) |                  | Cross talk (dB Min)   |                  | REJECTION RATIO COMMON MODE (dB Min) |                   |
|-------------|--------------------------------------------------------|---------------------------------------------|------------------|-----------------------|------------------|--------------------------------------|-------------------|
|             |                                                        | 1-40MHz                                     | 40.1-100MHz      | 1MHz                  | 10-100MHz        | 2MHz                                 | 30-200MHz         |
| G9603DG     | 350                                                    | -16                                         | -10+20*log(f/80) | -50                   | -55+22*log(f/10) | -50                                  | -15+20*log(f/200) |
|             | Continue                                               |                                             |                  |                       |                  |                                      |                   |
|             | Turns Ratio<br>(±2%)                                   | Insertion Loss (dB Max)                     |                  | DC RESISTANCE BALANCE |                  | Cww (pF TYP)                         | HI-POT<br>(Vrms)  |
|             |                                                        | 100KHz                                      | 1-125MHz         | ±.05 OHMS Max         |                  | 1MHz                                 |                   |
|             | 1CT:1CT                                                | -1.2                                        | -0.2-0.002*f^1.4 | CENTER TAP SYMMETRY   |                  | 25                                   | 1500              |

## MECHANICAL



NO COMPONENT AREA.  
Suggested Customer PCB Layout  
(Component Side)

## SCHEMATICS



**G9603DG**

Weight.....17.16 grams  
Tube.....17 pcs  
Small Carton.....170 pcs  
Big Carton.....680 pcs

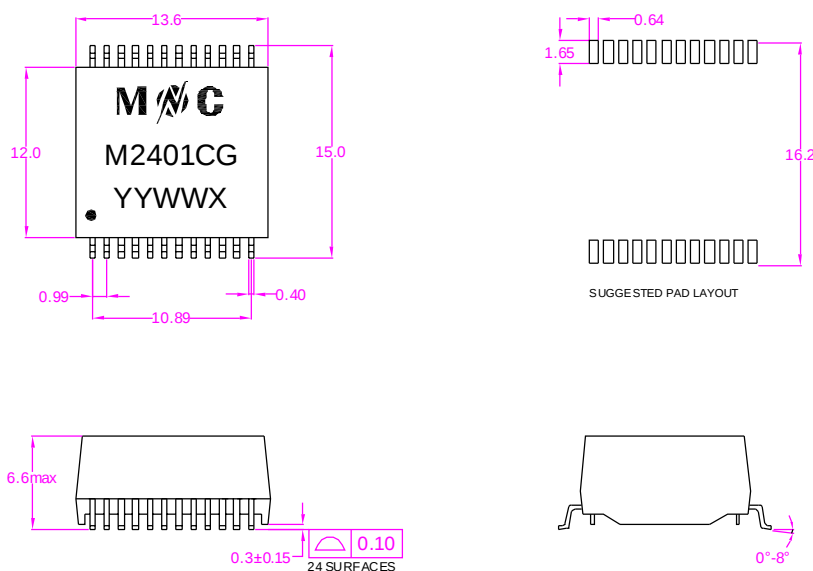
- Meets IEEE 802.3an Standards.
- RoHS Compliant.
- 10G Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

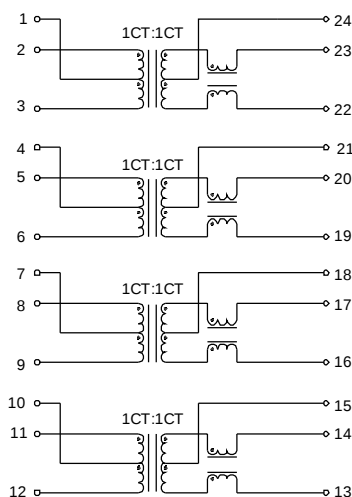
| Part Number | OCL (uH Min)<br>@ 100KHz, 0.1V | Turns Ratio<br>(±5%) | Insertion Loss<br>(Max) |          |        | Return Loss<br>(Min) |                  | Common to Differential<br>Mode Rejection<br>(Min) |            | Cross talk<br>(Min) |            | Hi-Pot<br>(Vrms) |
|-------------|--------------------------------|----------------------|-------------------------|----------|--------|----------------------|------------------|---------------------------------------------------|------------|---------------------|------------|------------------|
|             |                                |                      | 100KHz                  | 1-400MHz | 500MHz | 1-40MHz              | 40-500MHz        | 1-250MHz                                          | 250-500MHz | 1-100MHz            | 100-500MHz |                  |
| M2401CG     | 120uH (Typ)                    | 1CT:1CT              | -3.0                    | -1.5     | -3.0   | -18                  | -17+10*log(f/40) | -30                                               | -22        | -40                 | -30        | 1500             |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



**M2401CG**

Weight.....1.67 grams  
Reel.....350 pcs

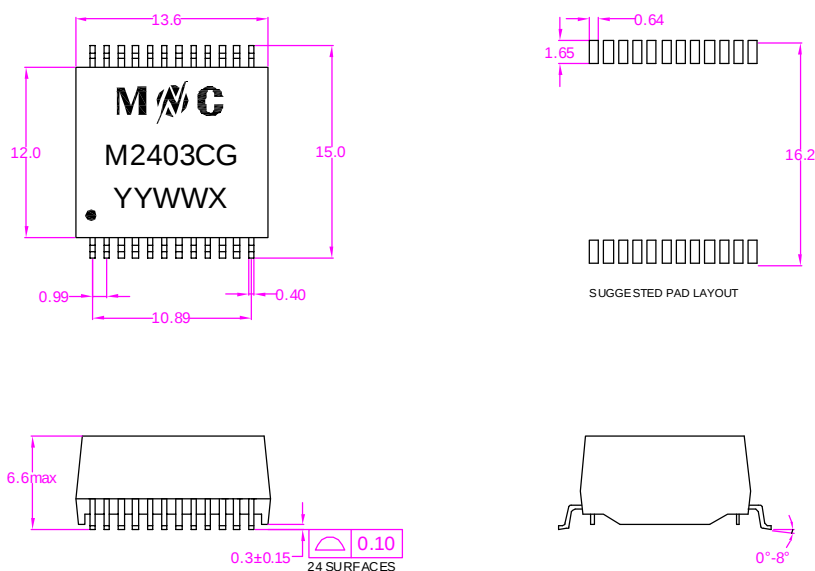
- Meets IEEE 802.3an Standards.
- RoHS Compliant.
- 10G Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

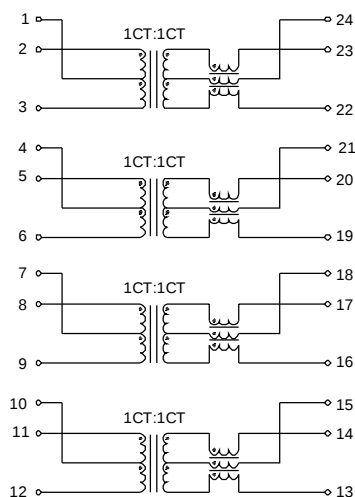
| Part Number | OCL(μH Min)<br>@ 100KHz, 0.1V | Turns Ratio<br>(±5%) | Insertion Loss<br>(Max) |          |        | Return Loss<br>(Min) |                  | Common to Differential<br>Mode Rejection<br>(Min) |            | Cross talk<br>(Min) |            | Hi-Pot<br>(Vrms) |
|-------------|-------------------------------|----------------------|-------------------------|----------|--------|----------------------|------------------|---------------------------------------------------|------------|---------------------|------------|------------------|
|             |                               |                      | 100KHz                  | 1-400MHz | 500MHz | 1-40MHz              | 40-500MHz        | 1-250MHz                                          | 250-500MHz | 1-100MHz            | 100-500MHz |                  |
| M2403CG     | 120uH (Typ)                   | 1CT:1CT              | -3.0                    | -1.5     | -3.0   | -18                  | -17+10*log(f/40) | -30                                               | -22        | -40                 | -30        | 1500             |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



M2403CG

Weight.....1.64 grams  
Reel.....350 pcs

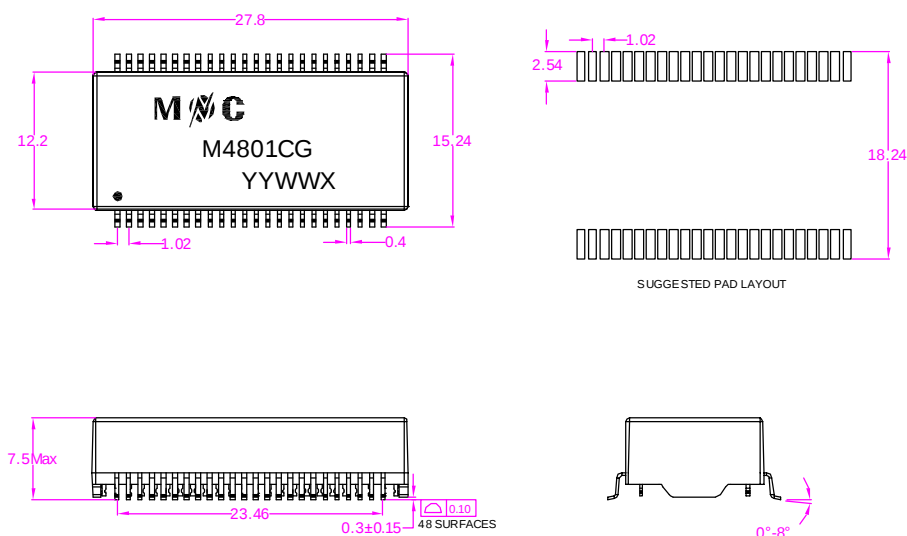
- Meets IEEE 802.3an Standards.
- RoHS Compliant.
- 10G Base-T, Surface Mount Type, Open Header.
- Operating temperature range: 0 °C to +70 °C.



## Electrical Specifications @25°C

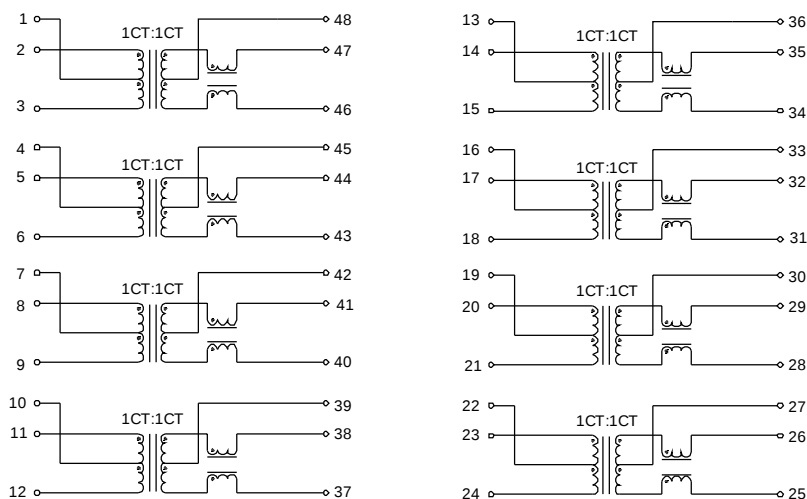
| Part Number | OCL (uH Min)<br>@ 100KHz, 0.1V | Turns Ratio<br>(±5%) | Insertion Loss<br>(Max) |          |        | Return Loss<br>(Min) |                  | Common to Differential<br>Mode Rejection<br>(Min) |            | Cross talk<br>(Min) |            | Hi-Pot<br>(Vrms) |
|-------------|--------------------------------|----------------------|-------------------------|----------|--------|----------------------|------------------|---------------------------------------------------|------------|---------------------|------------|------------------|
|             |                                |                      | 100KHz                  | 1-400MHz | 500MHz | 1-40MHz              | 40-500MHz        | 1-250MHz                                          | 250-500MHz | 1-100MHz            | 100-500MHz |                  |
| M4801CG     | 120uH (Typ)                    | 1CT:1CT              | -3.0                    | -15      | -3.0   | -18                  | -17+10*log(f/40) | -30                                               | -22        | -40                 | -30        | 1500             |

## MECHANICAL



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS



**M4801CG**

Weight.....3.20 grams  
Reel.....300 pcs

- Octal SMT Package contains both transmit and receive transformers
- Models matched to leading transceivers
- RoHS Compliance
- Operating temperature range: 0 °C to +70 °C.

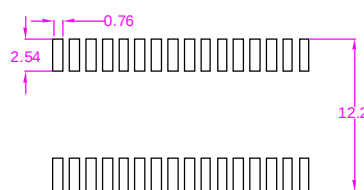
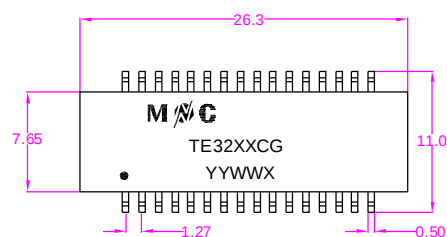


## Electrical Specifications @25°C

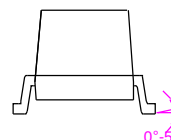
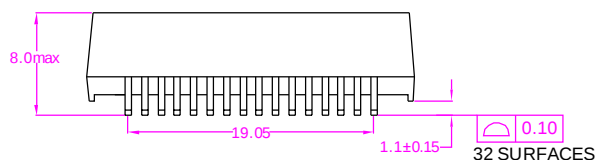
| Part Number | OCL (mH Min)<br>@ 10KHz, 0.1V | Turns Ratio<br>(±2%) | LL<br>(uH MAX) | C <sub>ww</sub><br>(pF MAX) | DCR<br>(Ω MAX) | Primary Pins       |                     | Hi-Pot<br>(Vrms) |
|-------------|-------------------------------|----------------------|----------------|-----------------------------|----------------|--------------------|---------------------|------------------|
|             |                               | Pri:Sec              | 100KHz, 0.2V   | 100KHz, 0.2V                | Pri            | Transmit           | Receive             |                  |
| TE3202CG    | 1.2                           | 1:2                  | 0.6&0.6        | 30&30                       | 1.2            | 1-2,5-6,9-10,13-14 | 3-4,7-8,11-12,15-16 | 1500             |

## MECHANICAL

TE3202CG



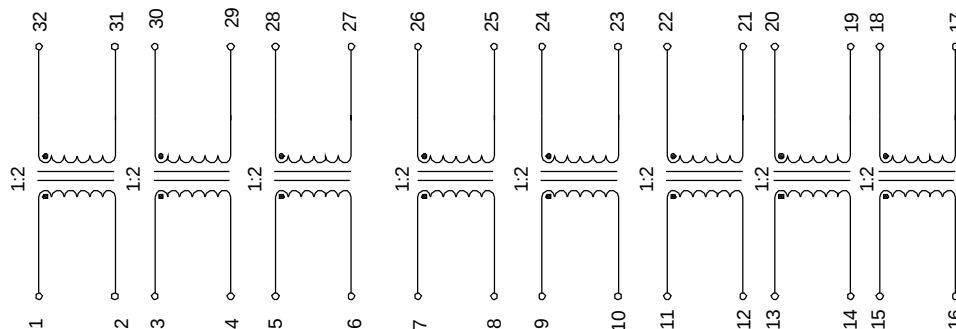
SUGGESTED PAD LAYOUT



Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

TE3202CG



TE3202CG

Weight.....2.5 grams  
Reel.....500 pcs

- Octal SMT Package contains both transmit and receive transformers
- Models matched to leading transceivers
- RoHS Compliance
- Operating temperature range: 0 °C to +70 °C.

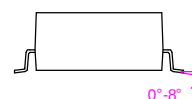
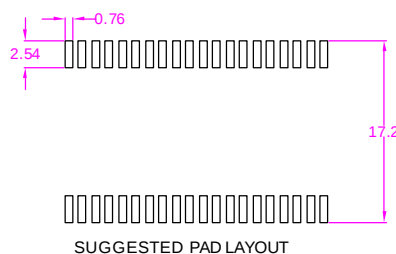
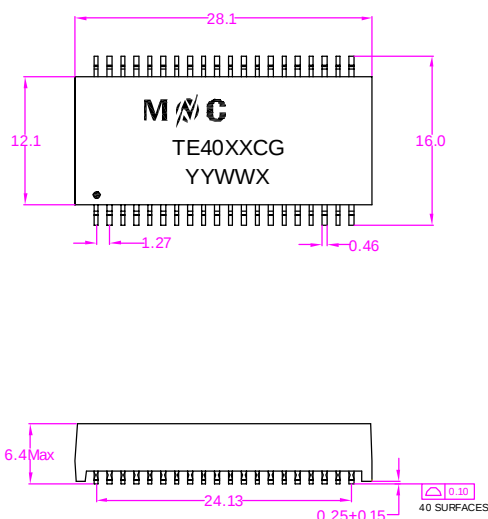


## Electrical Specifications @25°C

| Part Number | OCL (mH Min)<br>@ 10KHz, 0.1V | Turns Ratio<br>(±2%) | LL<br>(uH MAX) | C <sub>ww</sub><br>(pF MAX) | DCR<br>(Ω MAX) | Primary Pins            |                            | Hi-Pot<br>(Vrms) |
|-------------|-------------------------------|----------------------|----------------|-----------------------------|----------------|-------------------------|----------------------------|------------------|
|             |                               | Pri:Sec              | 100KHz, 0.2V   | 100KHz, 0.2V                | Pri            | Transmit                | Receive                    |                  |
| TE4001CG    | 1.2&1.2                       | 1:2CT                | 0.8&0.8        | 35&35                       | 0.8            | 4-5, 9-10, 14-15, 19-20 | 24-25, 29-30, 34-35, 39-40 | 1500             |
| TE4008CG    | 1.2&1.2                       | 1CT:2&1:2CT          | 0.6&0.6        | 35&35                       | 1.2            | 4-5, 9-10, 14-15, 19-20 | 1-3, 6-8, 11-13, 16-18     | 1500             |
| TE4016CG    | 1.2&1.2                       | 1:2.4&1:1            | 0.5&0.5        | 35&35                       | 1.5            | 1-2, 8-9, 11-12, 18-19  | 3-4, 6-7, 13-14, 16-17     | 1500             |
| TE4027CG    | 1.2                           | 1:1.266              | 0.7 & 0.7      | 35&35                       | 1.2            | 1-2, 6-7, 11-12, 16-17  | 3-4, 8-9, 13-14, 18-19     | 1500             |

## MECHANICAL

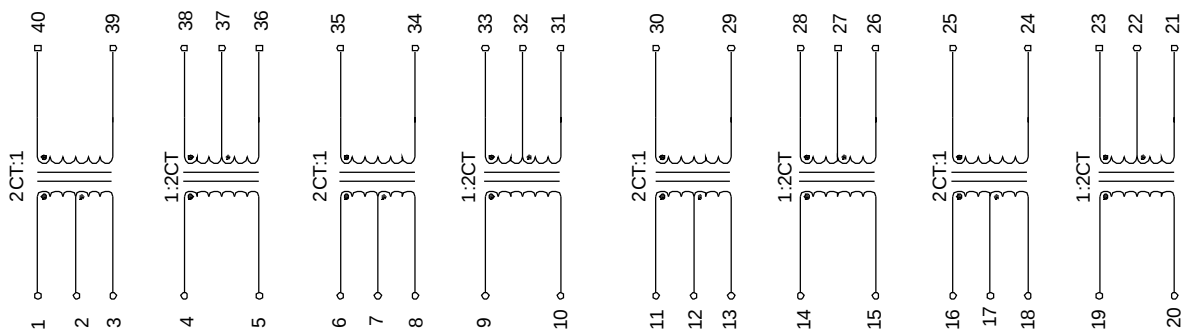
TE4001CG, TE4008CG, TE4016CG, TE4027CG



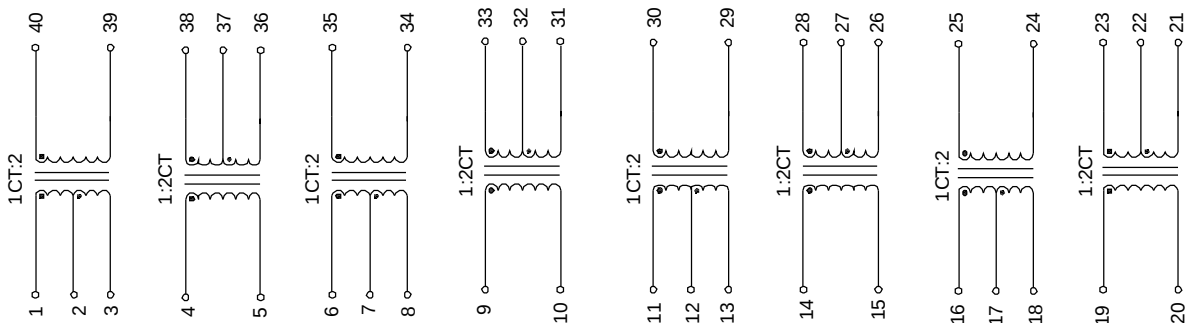
Unless otherwise specified all tolerances are: ±0.25 in mm

## SCHEMATICS

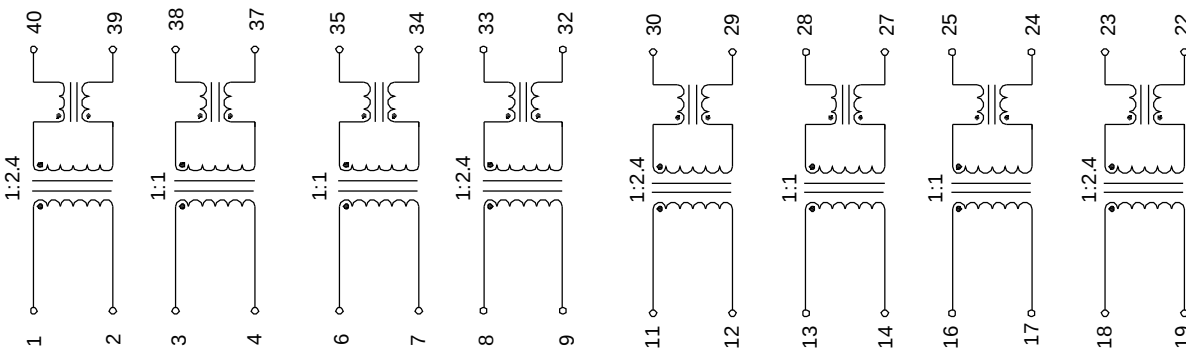
TE4001CG



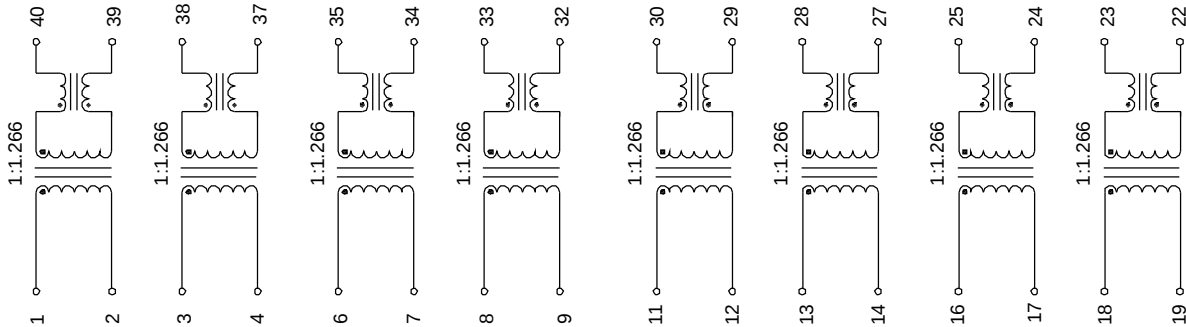
TE4008CG



TE4016CG



TE4027CG



TE4001CG

Weight.....2.81 grams  
Reel.....400 pcs

TE4008CG

Weight.....2.80 grams  
Reel.....400 pcs

TE4016CG

Weight.....2.45 grams  
Reel.....400 pcs

TE4027CG

Weight.....2.44 grams  
Reel.....400 pcs