

## **Miniature PCB Relay OUDH**

- **■** Low profile miniature power relay
- Meets 2kV dielectric between coil and contacts
- **■** Meets 5kV surge voltage
- **■** Immersion cleanable, sealed version available

Typical applications
Appliances, HVAC, office machines





Approvals	
UL E58304	
Technical data of approved types on request	

Contact Data					
Contact arrangement	1 form A, 1 NO				
Rated voltage	120VAC, 28VDC				
Max. switching voltage	240VAC, 110VDC				
Rated current	10A				
Contact material	Ag/AgCdO, AgSnO, AgNi				
Min, recommended contact load	100mA, 5VDC				
Frequency of operation	1800 ops./h				
Operate/release time max.	10ms/5ms				
Electrical endurance					
$\Lambda a C d O \cdot form \Lambda of form C 7.5 \Lambda C$	26VAC 85°C Conoral Llea 30v103 one				

 AgCdO: form A of form C, 7.5A, 26VAC, 85°C, General Use,
 30x10³ ops.

 AgCdO: form A, 7.5A, 26VAC, 85°C, General Use
 30x10³ ops.

 AgNi:
 7A, 250VAC, General Use,
 100x10³ ops.

 AgSnO: form A and B,10A, 250VAC,10A, 28VDC, General Use
 6x10³ ops.

Agsno: form A and B, TOA, 250VAC, TOA, 28VDC, General Ose 6x

Contact ratings 10A 120VAC res.
10A 28VDC res.
1/4HP 120VAC

Coil Data		
Coil voltage range	5 to 48VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	Class A, F	

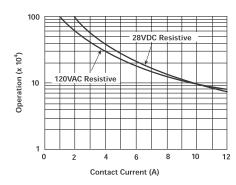
Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%$	mW
003	3	2,25	0.3	20	450
005	5	3.75	0.5	56	450
006	6	4.5	0.6	80	450
009	9	6.75	0.9	180	450
012	12	9	1.2	320	450
024	24	18	2.4	1280	450
048	48	36	4.8	3500	450

All figures are given for coil without pre-energization, at ambient temperature +23°C

Insulation Data	
Initial dielectric strength	
between open contacts	750Vrms
between contact and coil	2000Vrms
Clearance/creepage	
between open contacts	>1.6mm
between contact and coil	>3.2mm

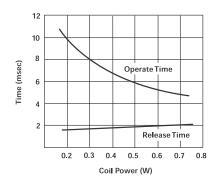
#### **Electrical endurance**

Mechanical endurance, DC coil

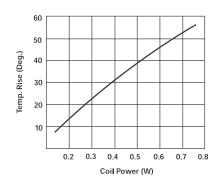


#### Operate time

10x10<sup>6</sup> operations



### Coil temperature rise





# Miniature PCB Relay OUDH (Continued)

**Dimensions** 

#### **Other Data** Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter Ambient temperature -30°C to +60°C Category of environmental protection IEC 61810 RTII - dust protected RTIII - wash tight Shock resistance (functional) 10g Shock resistance (destructive) 100g 10g Weight Resistance to soldering heat THT IEC 60068-2-20 RTII: 270°C/10s RTIII: 260°C/5s Packaging/unit tube/40, carton box/1000

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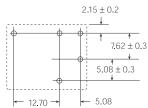
 $5.08 \pm 0.3$ 

Bottom view on solder pins

Terminal assignment

**PCB layout**Bottom view on solder pins





Product code structure		Typical	product co	de OUDH	-SH	-1	12	D	М	F	,000
Туре		7,1									,
OUDH Miniature PCB Re	lay OUDH										
Category of protection					1						
<b>S</b> Solder flux type	<b>SS</b> Flux	proof	SH	Wash tight							
Contact form											
<b>1</b> 1 pole											
Coil voltage											
Coil code: please refer to co	il versions table	(e.g. 12 = 12VDC	(2)								
Coil resistance											
D Standard	<b>L</b> High	n sensitivity									
Contact arrangement											
Blank 1 form C, 1 CO	<b>M</b> 1 fo	rm A, 1 NO	В	1 form B, 1 NC	)						
Insulation system											
Blank Class 105 (A)	<b>F</b> Clas	ss 155 (F)									
Suffix											
<b>,000</b> Standard											

Product code	Enclosure	Coil	Arrangement	Insulation	Part number
OUDH-SH-105D,000	wash tight	5VDC	1 form C, 1 CO	Class A	7-1419145-3
OUDH-SS-112D2	Flux proof	12VDC			1721551-5
OUDH-SS-112D,000					8-1419129-0
OUDH-SH-112D,000	Wash tight				7-1419129-2
OUDH-SS-112DF,000	Flux proof			Class F	1461211-3
OUDH-SS-124D,000		24VDC		Class A	8-1419129-5
OUDH-SH-124D,000	Wash tight				7-1419129-4
OUDH-SS-124DF,000	Flux proof			Class F	1461211-1