

**Miniature PCB Relay PCD/F**

- 10A and 15A contact rating
- 1 form A (NO) contact arrangement
- Quick connect terminals available(PCDF)

勝特力材料 886-3-5753170  
 胜特力电子(上海) 86-21-34970699  
 胜特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



Typical applications  
Appliances, HVAC, office machines

F0154-D



**Approvals**

UL E82292, TUV R50138791, CQC 03001008474  
 Technical data of approved types on request

**Contact Data**

Contact arrangement	1 Form A (NO)
Rated voltage	250VAC
Max. switching voltage	250VAC
Rated current	10A
Contact material	AgCdO, AgSnO, AgNi
Min. recommended contact load	100mA at 5VDC
Frequency of operation	1200 ops./h
Operate/release time max.	15/8ms
Contact ratings	10A

**Contact ratings**

Type	Contact	Load	Cycles
<b>UL 508</b>			
PCD-1...D2M(H)	A (NO)	10A, 250VAC, resistive, 85°C	50x10 <sup>3</sup>
PCD-1...D2M(H)	A (NO)	15A, 125VAC, resistive, 23°C	100x10 <sup>3</sup>

Mechanical endurance, DC coil 10x10<sup>6</sup> operations

**Coil Data**

Coil voltage range	3 to 48VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class F

**Coil Data (continued)**

**Coil versions, DC coil**

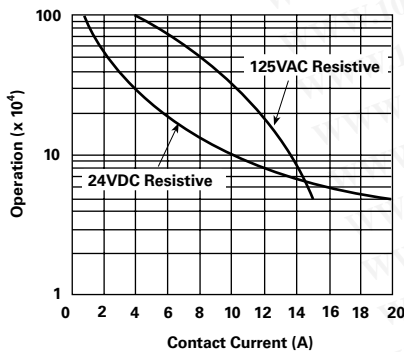
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
03	3	2.25	0.15	45	200
05	5	3.75	0.25	125	200
06	6	4.50	0.3	180	200
09	9	6.75	0.45	405	200
12	12	9.00	0.6	720	200
18	18	13.50	0.9	1620	200
24	24	18.00	1.2	2880	200
48	48	36.00	2.4	9200	250

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

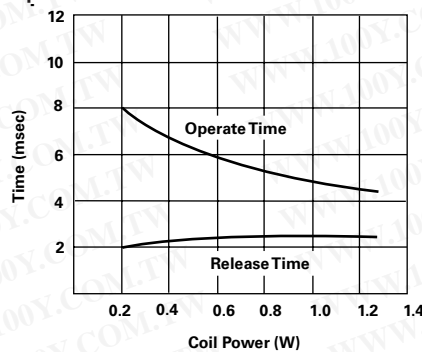
**Insulation Data**

Initial dielectric strength	
between open contacts	750V <sub>rms</sub>
between contact and coil	2500V <sub>rms</sub>
Clearance/creepage	
between contact and coil	>1.6/3.2mm

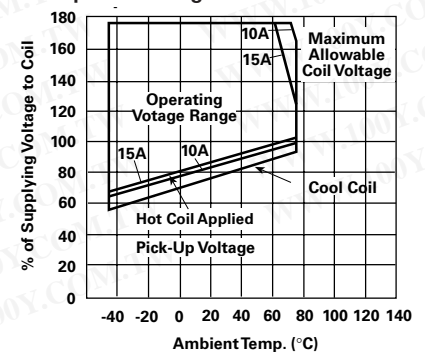
**Electrical endurance**



**Operate time**



**Coil operative range**



Miniature PCB Relay PCD/F (Continued)

**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](http://www.te.com/customersupport/rohssupportcenter)

Ambient temperature	
AgCdO/AgNi contacts	-30°C to +70°C
AgSnO <sub>2</sub> contacts	-30°C to +85°C
Category of environmental protection IEC 61810	RTII - flux proof RTIII - wash tight
Shock resistance (functional)	10g
Shock resistance (destructive)	100g

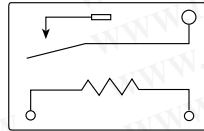
**Other Data (continued)**

Weight	
PCD	9g
PCDF	10g
Resistance to soldering heat THT, IEC 60068-2-20	
RTII	270°C/10s
RTIII	260°C/5s
Packaging unit	1000 pcs.

**PCD version**

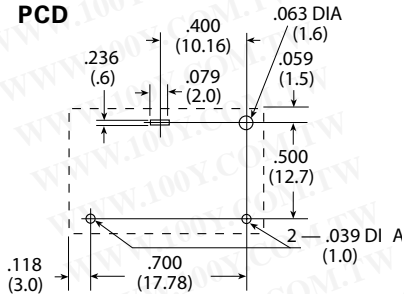
**Terminal assignment**

Bottom view on solder pins

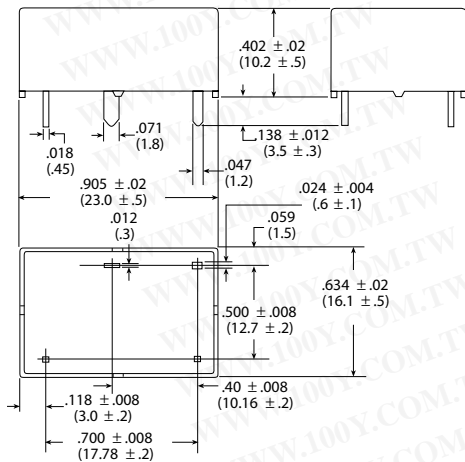


**PCB layout**

Bottom view on solder pins



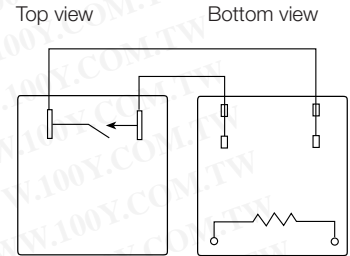
**Dimensions**



**PCDF version**

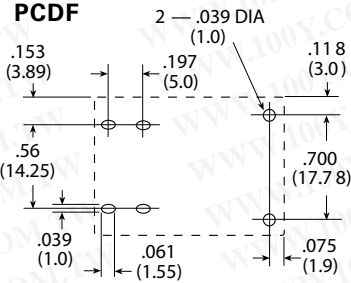
**Terminal assignment**

Bottom view on solder pins

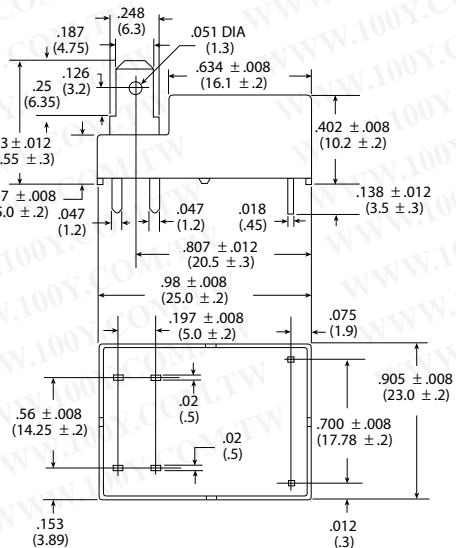


**PCB layout**

Bottom view on solder pins



**Dimensions**



**Miniature PCB Relay PCD/F** (Continued)

<b>Product code structure</b>		Typical product code	<b>PCD</b>	<b>-1</b>	<b>12</b>	<b>D</b>	<b>1</b>	<b>M</b>	<b>H</b>	<b>,000</b>
<b>Type</b>		PCD Miniature PCB Relay PCD								
<b>Terminals</b>		Blank PC board terminals F Quick connect terminals								
<b>Number of poles</b>		1 1 pole								
<b>Coil voltage</b>		Coil code: please refer to coil versions table (e.g. 05=5VDC)								
<b>Coil input</b>		D standard								
<b>Contact material</b>		1 AgCdO                      2 AgSnO                      3 AgNi								
<b>Contact arrangement</b>		M 1 form A (NO)								
<b>Enclosure</b>		Blank Flux proof plastic case                      H Sealed plastic case with knock-off nib for ventilation								
<b>Terminal construction</b>		,000 Standard model                      Other Customized model								

Product code	Coil voltage	Cont. material	Arrangement	Enclosure	Terminals	Part number		
PCD-105D1M,000	5VDC	AgCdO	1 form A (NO)	Flux proof	PCB	3-1419126-4		
PCD-105D1MH,000		AgSnO		Wash tight		3-1419126-6		
PCD-105D2M,000	12VDC	AgCdO	1 form A (NO)	Flux proof	PCB	1721105-1		
PCD-112D1M,000		AgCdO		Flux proof		4-1419126-0		
PCD-112D1MH,000		AgCdO		Wash tight		4-1419126-2		
PCD-112D2M,000		AgSnO		Flux proof		1721105-4		
PCD-112D2MH,000		AgSnO		Wash tight		1-1721105-0		
PCD-124D1M,000		AgCdO		Flux proof		4-1419126-4		
PCD-124D1M,010	24VDC	AgCdO	1 form A (NO)	Flux proof	PCB	4-1419126-6		
PCD-124D1MH,000						Wash tight	4-1419126-8	
PCD-124D2M,000						AgSnO	Flux proof	1721105-5
PCD-124D2M,010						AgSnO	Wash tight	1721411-5
PCD-124D2MH,000	48VDC	AgCdO	1 form A (NO)	Flux proof	PCB	1-1721105-1		
PCD-148D1M,000						AgCdO	Flux proof	5-1419126-1
PCD-148D1MH,000						AgCdO	Wash tight	1419146-7
PCD-148D2M,000	12VDC	AgSnO	1 form A (NO)	Flux proof	PCB+QC	1721105-6		
PCDF-112D2M,000		AgSnO		Flux proof		1721106-4		

**勝特力材料 886-3-5753170**  
**勝特力电子(上海) 86-21-34970699**  
**勝特力电子(深圳) 86-755-83298787**  
[Http://www.100y.com.tw](http://www.100y.com.tw)