

Miniature PCB Relay PCD/F

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

Typical applications Appliances, HVAC, office machines



F0154-D







Approvals

cULus 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
UL 508			
PCD-1D2M(H)	A (NO)	10A, 250VAC, resistive, 85°C	50x10 ³
PCD-1D2M(H)	A (NO)	15A, 125VAC, resistive, 23°C	100x10 ³

Mechanical endurance, DC coil 10x10⁶ operations

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

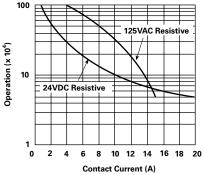
Coil Data (continued)

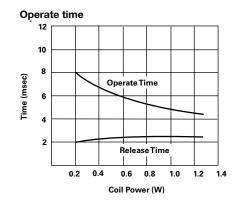
Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
03	3	2.25	0.15	45	200
05	5	3.75	0.25	125	200
06	6	4.50	0.3	180	200
09	9	6.75	0.45	405	200
12	12	9.00	0.6	720	200
18	18	13.50	0.9	1620	200
24	24	18.00	1.2	2880	200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

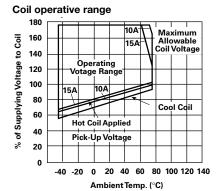
All figures are given for coil without pre-energization, at ambient temperature +23°C

Insulation Data		
Initial dielectric strength		
between open contacts	750V _{rms}	
between contact and coil	2500V _{rms}	
Clearance/creepage		
between contact and coil	>1.6/3.2mm	

Electrical endurance









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.tycoelectronics.com/customersupport/rohssupportcenter

Ambient temperature

 $\begin{array}{lll} \mbox{AgCdO/AgNi contacts} & -30^{\circ}\mbox{C to } +70^{\circ}\mbox{C} \\ \mbox{AgSnO}_2 \mbox{ contacts} & -30^{\circ}\mbox{C to } +85^{\circ}\mbox{C} \\ \end{array}$

Category of environmental protection

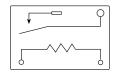
IEC 61810 RTII - flux proof RTIII - wash tight Shock resistance (functional) 10g Shock resistance (destructive) 100g

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

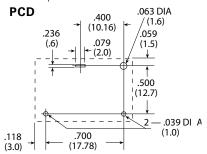
Terminal assignment

Bottom view on solder pins

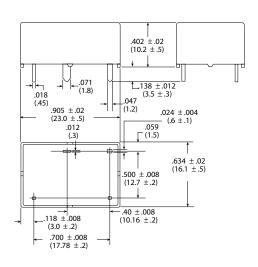


PCB layout

Bottom view on solder pins

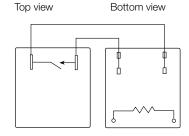


Dimensions



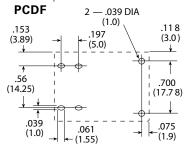
PCDF version

Terminal assignmentBottom view on solder pins

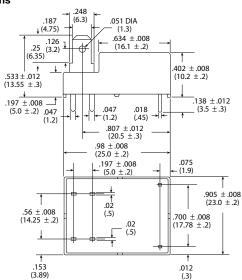


PCB layout

Bottom view on solder pins

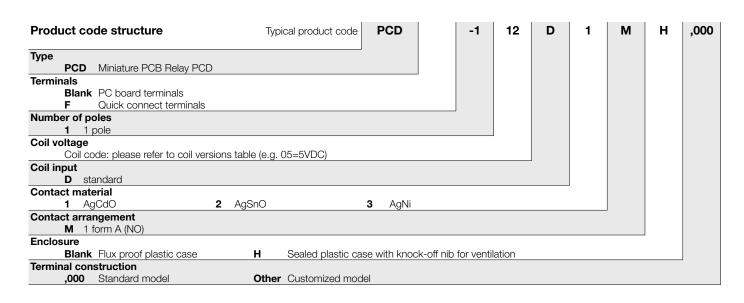


Dimensions





Miniature PCB Relay PCD/F (Continued)



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				Wash tight		3-1419126-6
PCD-105D2M,000		AgSnO		Flux proof		1721105-1
PCD-112D1M,000	12VDC	AgCdO				4-1419126-0
PCD-112D1MH,000				Wash tight		4-1419126-2
PCD-112D2M,000		AgSnO		Flux proof		1721105-4
PCD-112D2MH,000				Wash tight		1-1721105-0
PCD-124D1M,000	24VDC	AgCdO		Flux proof		4-1419126-4
PCD-124D1M,010						4-1419126-6
PCD-124D1MH,000				Wash tight		4-1419126-8
PCD-124D2M,000		AgSnO		Flux proof		1721105-5
PCD-124D2M,010						1721411-5
PCD-124D2MH,000				Wash tight		1-1721105-1
PCD-148D1M,000	48VDC	AgCdO		Flux proof		5-1419126-1
PCD-148D1MH,000				Wash tight		1419146-7
PCD-148D2M,000		AgSnO		Flux proof		1721105-6
PCDF-112D2M,000	12VDC				PCB+QC	1721106-4