

Miniature PCB Relay PCH

- 5 to 10A rating
- 1 form A (NO) and 1 form C (CO) contact arrangements
- Sensitive coil available for 1 form A type

Typical applications

Appliances, HVAC, refrigerators, microwave ovens



F_PCH_B



Approvals

VDE 119568, UL E82292, CQC08001023449

Technical data of approved types on request

Contact Data

Contact arrangement	1 Form A (NO)
Rated voltage	30VDC, 277VAC
Max. switching voltage	30VDC, 277VAC
Rated current	5 to 10A
Contact material	AgSnO ₂
Min. recommended contact load	100mA, 5VDC
Frequency of operation	360 ops./h
Operate/release time max.	10/5ms
Electrical endurance	

D type: 5A, 277VAC resistive, -30°C to +70°C 100x10³ ops.

L type: 5A, 277VAC resistive, -30°C to +70°C 30x10³ ops.

D/L-WG type: 5A, 250VAC resistive, -40°C to +85°C 100x10³ ops.

Contact ratings

Type	Contact	Load	Cycles
IEC 61810			
PCH-..2M-WG	A (NO)	5A 250VAC res, 85°C	100x10 ³
PCH-..D2-WG	A of C	5A 250VAC res, 85°C	100x10 ³
PCH-..D2M	A (NO)	5A 250VAC res, 70°C	100x10 ³
PCH-..L2M	A (NO)	5A 250VAC res, 70°C	30x10 ³
PCH-..D2	C (CO)	5A/3A 250VAC res, 40°C	30x10 ³
UL 508			
PCH	A (NO)	10A 125VAC res, 85°C	100x10 ³
PCH	A (NO)	5A 250VAC general use, 85°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 versions, DC coil

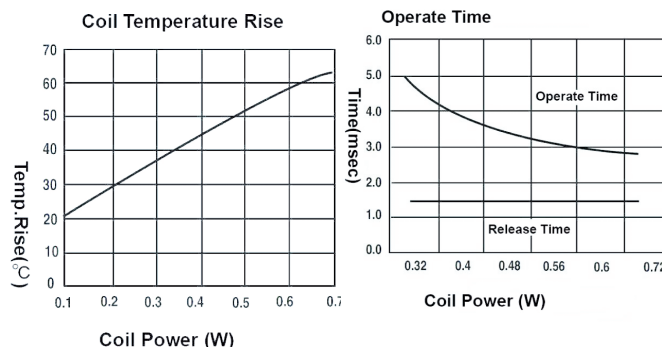
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10 %	Rated coil power mW
Sensitive type (for form A type only)					
003	3	2.25	0.15	45	200
005	5	3.75	0.25	125	200
006	6	4.50	0.30	180	200
009	9	6.75	0.45	405	200
012	12	9.00	0.60	720	200
018	18	13.50	0.90	1620	200
024	24	18.00	1.20	2880	200
048	48	36.00	2.40	11520	200

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

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10 %	Rated coil power mW
Standard type					
003	3	2.10	0.15	23	400
005	5	3.50	0.25	63	400
006	6	4.20	0.30	90	400
009	9	6.30	0.45	202	400
012	12	8.40	0.60	360	400
018	18	12.60	0.90	810	400
024	24	16.80	1.20	1440	400
048	48	33.60	2.40	5760	400

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



Miniature PCB Relay PCH (Continued)

Insulation Data

Initial dielectric strength	
between open contacts	750V _{rms}
between contact and coil	4000V _{rms}
Clearance/creepage	
between contact and coil	NO: ≥ 4.1mm / 6.3mm
between contact and coil	CO: ≥ 3.1mm / 3.9mm
Tracking index of relay base	
standard type	PTI 175
WG txtype	PTI 250

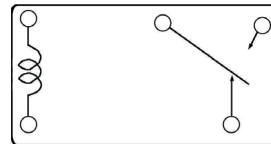
Other Data

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	-40°C to +85°C
Category of environmental protection	
IEC 61810	RTII - flux tight RTIII - wash tight
Shock resistance (functional)	10g
Shock resistance (destructive)	100g
Weight	7g
Resistance to soldering heat THT	
IEC 60068-2-20	RTII: 270°C/10s RTIII: 260°C/5s
Packaging unit	tray/100 pcs., carton box/1000 pcs.

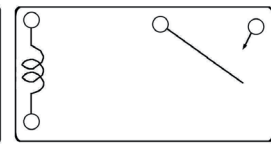
Terminal assignment

Bottom view on solder pins

1 form C (CO)



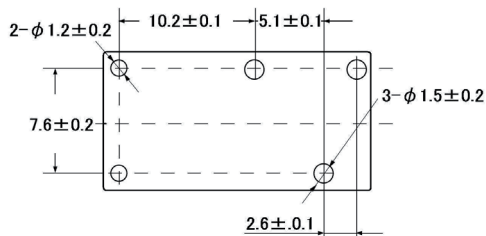
1 form A (NO)



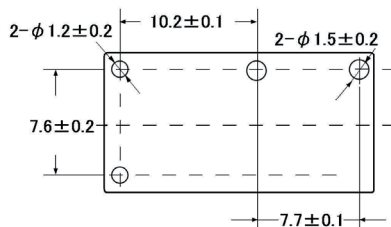
PCB layout

Bottom view on solder pins

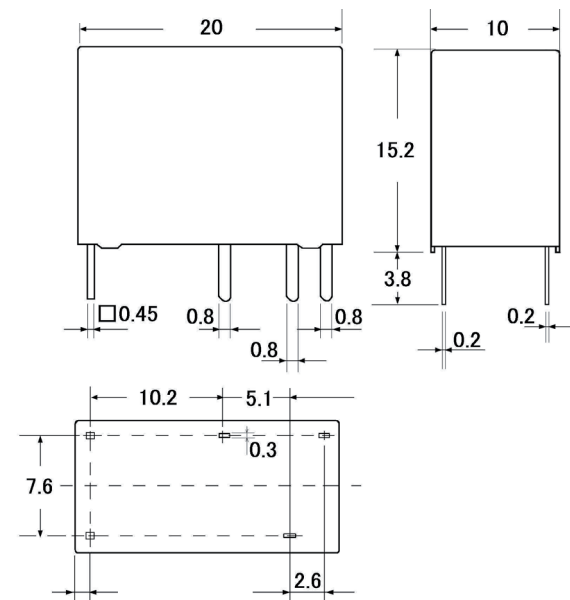
1 form C (CO)



1 form A (NO)



Dimensions



*1a Outline dimensions is omitted.

Tolerance: 0.99mm Max.: +/-0.1mm, 1-2.99mm: +/-0.2mm, 3mm Min.: +/-0.3r

Miniature PCB Relay PCH (Continued)

Product code structure		Typical product code		PCH	-1	12	D	2		H		,000
Type												
PCH				Miniature PCB Relay		PCH						
Number of poles												
1				1 pole								
Coil voltage												
Coil code: please refer to coil versions table (e.g. 05=5VDC)												
Coil sensitivity												
D				Standard 400mW		L	200mW (for 1 form A contact only)					
Contact material												
2				AgSnO								
Contact arrangement												
Blank				1 form C (CO) contact		M	1 form A (NO) contact					
Category of protection												
Blank				Flux proof, vented cover		H	Wash tight, sealed plastic cover					
Insulation system designation												
Blank				Class F system		WG	Class F system and for domestic appliances (IEC 60335-1, 4 Edition);					
Suffix												
,000				Standard type								
Other types on request												

Other types on request

Product code	Coil	Sensitivity	Cont.material	Arrangement	Enclosure	Insulation	Part number
PCH-105D2H,000	5VDC	Standard	AgSnO ₂	1 form C (CO)	Wash tight	Class F	9-1440003-0
PCH-105L2M,000		Sensitive		1 form A (NO)	Flux proof		1461352-2
PCH-105L2MH,000					Wash tight		1461353-2
PCH-105L2M-WG					Flux proof	Cl. F, IEC 60335-1	1721768-2
PCH-106D2,000	6VDC	Standard		1 form C (CO)		Class F	9-1440003-8
PCH-109D2H,000	9VDC				Wash tight		9-1440003-2
PCH-112D2,000	12VDC				Flux proof		1440004
PCH-112D2H,000					Wash tight		9-1440003-3
PCH-112D2M,000				1 form A (NO)	Flux proof		1461350-5
PCH-112D2M-WG						Cl. F, IEC 60335-1	1721767-5
PCH-112D2-WG				1 form C (CO)			1721766-5
PCH-112L2M,000		Sensitive		1 form A (NO)		Class F	1461352-5
PCH-112L2MH,000					Wash tight		1461353-5
PCH-112L2M-WG					Flux proof	Cl. F, IEC 60335-1	1721768-5
PCH-124D2,000	24VDC	Standard		1 form C (CO)		Class F	1440004-1
PCH-124D2H,000					Wash tight		9-1440003-5
PCH-124D2M,000				1 form A (NO)	Flux proof		1461350-6
PCH-124D2MH,000					Wash tight		1461351-6
PCH-124L2M,000		Sensitive			Flux proof		1461352-6
PCH-124L2MH,000					Wash tight		1461353-6
PCH-124L2M-WG					Flux proof	Cl. F, IEC 60335-1	1721768-6
PCH-148D2,000	48VDC	Standard		1 form C (CO)		Class F	1461410-2

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