Miniature PCB Relay PCH

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

- 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









Ap	pro	ovals	

VDE 119568, cULus 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	CONT.
Ditype: 5A 277VAC resistive -30°0	$C to +70^{\circ}C100x10^{3} ons$

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

Туре	Contact	Load	Cycles
IEC 61810	11	W. CONT.	
PCH2M-WG	A (NO)	5A 250VAC res, 85°C	100x10 ³
PCHD2-WG	A of C	5A 250VAC res, 85°C	100x10 ³
PCHD2M	A (NO)	5A 250VAC res, 70°C	100x10 ³
PCHL2M	A (NO)	5A 250VAC res, 70°C	30x10 ³
PCHD2	C (CO)	5A/3A 250VAC res, 40°C	30x10 ³
UL 508		11/11/11/11	
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)

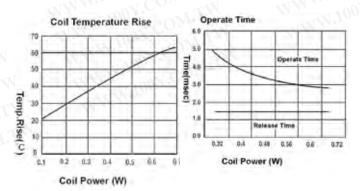
Coil vers	sions, DC co	il 🕠			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10 %	mW
Sensitiv	e type (for fo	rm A type or	nly)	10 x ·	T. T. VI
003	3	2.25	0.15	45	200
005	5	3.75	0.25	125	200
006	6	4.50	0.30	180	200
009	9	6.75	0.45	405	200
012	12	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	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10 %	mW
Standar	d type	OM.		- TIN W	AJ C
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	LINN.TO ST COM.
Initial dielectric strength	W. 1003.
between open contacts	$750V_{rms}$
between contact and coil	4000V _{rms}
Clearance/creepage	CO.
between contact and coil	>1.6/3.2mm
Tracking index of relay base	ALL CO.
standard type	PTI 175
WG txype	PTI 250

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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

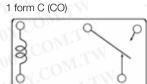
Ambient temperature -40°C to +85°C
Category of environmental protection
IEC 61810 RTIII - flux tight
RTIII - wash tight
Shock resistance (functional) 10g
Shock resistance (destructive) 100g
Weight 7g
Resistance to soldering heat THT

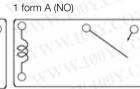
IEC 60068-2-20 RTII: 270°C/10s RTIII: 260°C/5s

Packaging unit tray/100 pcs., carton box/1000 pcs.

Terminal assignment

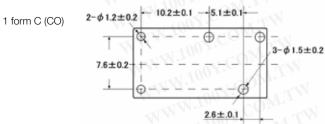
Bottom view on solder pins



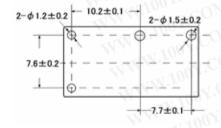


PCB layout

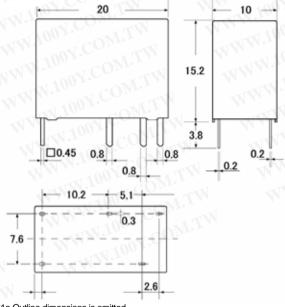
Bottom view on solder pins



1 form A (NO)



Dimensions



^{*1}a Outline dimensions is omitted.

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



Miniature PCB Relay PCH (Continued)

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Product code structure	Typical product code	PCH -1	12 D	2	Н	
Type PCH Miniature PCB Relay PCH	TWW.100Y.COM.T	M M	WW.100X	COMITY	N	
Number of poles 1 1 pole	WWW. 100X.COM.	LM A	100	Y.COM.T		
Coil voltage Coil code: please refer to coil vers	sions table (e.g. 05=5VDC)	TW	WW 10	ON.	IN	
Coil sensitivity D Standard 400mW	L 200mW (for 1 form)	A contact only)	WW.1	ON	LIN	
Contact material 2 AgSnO	WW.100Y.CO	M.TW	WW	100Y.	V.TW	
Contact arrangement Blank 1 form C (CO) contact	M 1 form A (NO) contact	ct	W **	1.100 r.	M.T.W.	
Category of protection Blank Flux proof, vented cover	H Wash tight, sealed p	lastic cover		W.1007.	OM.TWO	
Insulation system designation Blank Class F system	WG Class F system and	d for domestic appli	ances (IEC 60335	5-1, 4 Edition);	$CO_{M,1}$	
Suffix ,000 Standard type	W 100	LCOM.TV	J -si	WW.100 1	COM:	N
Other types on request						

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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	4/1/1	1 form A (NO)	Flux proof	1100	1461352-2
PCH-105L2MH,000				Too COM	Wash tight	111111111111111111111111111111111111111	1461353-2
PCH-105L2M-WG		Y TIN		1001	Flux proof	Cl. F, IEC 60335-1	1721768-2
PCH-106D2,000	6VDC	Standard		1 form C (CO)	1	Class F	9-1440003-8
PCH-109D2H,000	9VDC	CO. TOWN		.001.00	Wash tight		9-1440003-2
PCH-112D2,000	12VDC	OW. I		x_1,y_0	Flux proof		1440004
PCH-112D2H,000		COL	Win	W. Co	Wash tight	4/1/1/	9-1440003-3
PCH-112D2M,000				1 form A (NO)	Flux proof	- 111	1461350-5
PCH-112D2M-WG		COn at	V IX	W. CALC		CI. F, IEC 60335-1	1721767-5
PCH-112D2-WG		J		1 form C (CO)			1721766-5
PCH-112L2M,000		Sensitive	N M	1 form A (NO)		Class F	1461352-5
PCH-112L2MH,000		11.		×1100 x	Wash tight		1461353-5
PCH-112L2M-WG	- TAN W. L	TI COME	-31	TIN W.	Flux proof	Cl. F, IEC 60335-1	1721768-5
PCH-124D2,000	24VDC	Standard	1 11	1 form C (CO)		Class F	1440004-1
PCH-124D2H,000		-1 COM.		ALL WALL	Wash tight		9-1440003-5
PCH-124D2M,000		1007.		1 form A (NO)	Flux proof	4	1461350-6
PCH-124D2MH,000			_ <1		Wash tight	N S	1461351-6
PCH-124L2M,000		Sensitive		11 10	Flux proof		1461352-6
PCH-124L2MH,000		V-700	1.	11111111111	Wash tight		1461353-6
PCH-124L2M-WG	41 M		TW		Flux proof	CI. F, IEC 60335-1	1721768-6
PCH-148D2,000	48VDC	Standard	Mr.	1 form C (CO)		Class F	1461410-2

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