OEG

Power PCB Relay OMI 2P

- 2pole, 5A ,2 form A (NO) or 2 form C (CO)
- Meet 5000V dielectric voltage between coil and contacts
- Meet 10000V surge voltage between coil and contacts

Typical applications Home appliances, office machines











Approvals				
VDE RegNo.40005414	, UL E58304,	CSA	LR48471-79,	SEMKO 613298,
CQC 08001024660				

Technical data of approved types on request

Contact Data	
Contact arrangement	2 form A (NO), 2 form C (CO)
Rated voltage	250VAC
Max. switching voltage	30VDC, 250VAC
Rated current	5A
Switching power	1250VA, 150W
Contact material	AgSnO
Min. recommended contact load	100mA, 5VDC
Initial contact resistance	100mΩ at 1A, 6VDC
Frequency of operation, with/without loa	ad 1800/18000h ⁻¹
Operate/release time max.	
standard coil (D)	15/8ms
sensitive coil (L)	20/8ms
Electrical endurance	
NO 5A, 240VAC, resistive,	100x10 ³ ops.
NC 2.5A, 240VAC, resistive,	100x10 ³ ops.
Contact ratings	10A, 240VAC/30VDC
Mechanical endurance	10x10 ⁶ operations

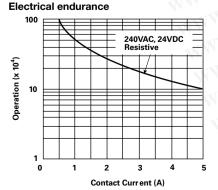
Coil Data	
Coil voltage range	5 to 48VDC
Coil insulation system according	UL class 105 (A)

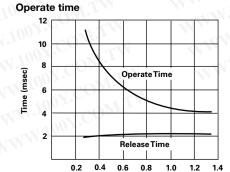
Coil data (continued)

Coil vers	sions, DC co	il WWW			
Coil code	Rated voltage	Operate voltage	Release voltage	Coil resistance	Rated coil power
	VDC	VDC	VDC	Ω±10%	mW
Standard	d coil, 720m\	N	10	DY.	1 1 1 1
05	5	3.5	0.25	36	720
06	6	4.2	0.3	48.5	720
09	9	6.3	0.45	115	720
12	12	8.4	0.6	200	720
24	24	16.8	1.2	820	720
48	48	33.6	2.4	3300	720
Sensitive	e coil, 540m\	N		- 57 (Obs
05	5	3.75	0.25	48.5	540
06	6	4.5	0.3	68	540
09	9	6.75	0.45	155	540
12	12	9.0	0.6	270	540
24	24	18.0	1.2	1100	540
48	48	36.0	2.4	4400	540

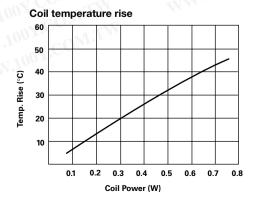
All figures are given for coil without pre-energization, at ambient temperature +23°C.

Insulation Data	
Initial dielectric strength	TIM W.
between open contacts	1000V _{rms}
between contact and coil	5000V _{rms}
between adjacent contacts	2500V _{rms}
Initial surge withstand voltage	
between contact and coil	10000V
Initial insulation resistance	1000ΜΩ
Clearance/creepage	100
between contact and coil	≥ 5.5/8mm
M. 1003. 24.1	71





Coil Power (W)



Power PCB Relay OMI 2P (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

standard coil -30 to 60°C sensitive coil -30 to 70°C

Category of environmental protection

IEC 61810 RTII - flux proof, RTIII - wash tight

Vibration resistance (functional) 10 to 50Hz, 1.5mm double amplitude

Shock resistance (functional)

 IEC 60068-2-27 (half sine)
 98m/s², 11ms

 Terminal type
 PCB-THT

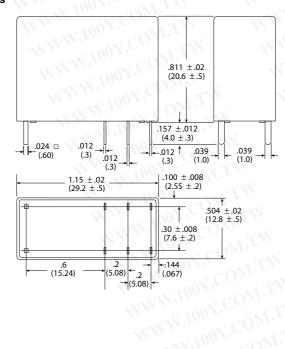
 Weight
 13g

 Resistance to soldering heat THT
 260°C/5s

 Packaging/unit
 box/1000 pcs.

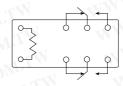
勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

Dimensions



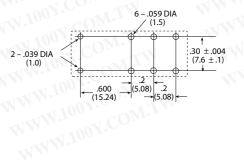
Terminal assignment

Bottom view on solder pins



PCB layout

Bottom view on solder pins





Power PCB Relay OMI 2P (Continued)

Product	code structure			Typical product code	ОМІ	-ss	2	12	D	М	1
Туре	MI Power PC	B Relay OMI 2P	00 _Å	.COM.TW	WW	W.70	oy.C	OM	WI		
Sealing SS	OFF	S	H W	/ash tight	W		100 X		VT.I		
Pole 2	2 pole	MAN	10	NI.MOD.YO	V	W TAX	1007	.00	M.TV		
Coil	il code: please refer to	o coil versions table	x 1	OOY.COM.TW	_	NAME	N.100	Y.C	T.Mc	N	
Coil power		WW	Se	ensitive 540mW		MM	W.10	OY.	MO.		
	arrangement ank 2 form C (CO)	N		form A (NO)	N	MA	NW.1	00 X .	COM	TW	
Contact i	naterial ank AgCdO		44.	gSnO	LM.	W	WW.	100 x		VII	
Suffix	ank AgSnO		5 00 Ag	gCdO, flux proof gCdO, wash tight	TW	1	NWV	1.100	OY.CC	M.T	W

100Y.COM.TW

Product code	Version	Contact	Cont.material	Coil power	Coil voltage	Sealing	Part number
OMI-SS-205DM1	5A	2 form A (NO)	AgSnO	720mW	5VDC	Flux proof	1721438-2
OMI-SS-212DM1	101.		100		12VDC		1721438-5
OMI-SS-224DM1	L COM			of COR.	24VDC		1721438-7
OMI-SS-205LM1	1007.		N 1 101	540mW	5VDC		1721437-2
OMI-SS-212LM1		- 1			12VDC		1721437-5
OMI-SS-224LM1	1007.0		1110		24VDC		1721437-7
OMI-SS-205D1	1.10	2 form C (CO)		720mW	5VDC		1721436-2
OMI-SS-212D1	1007.0	TW	W V		12VDC		1721436-5
OMI-SS-224D1	W.100	J.Mr.			24VDC		1721436-7
OMI-SS-205L1	1,007.0	TI		540mW	5VDC		1721435-2
OMI-SS-212L1	VN Jun	OMICE	- T		12VDC		1721435-5
OMI-SS-224L1	' CON			-1007.	24VDC	M 1	1721435-7
OMI-SH-205DM1	-1XN 100	2 form A (NO)		720mW	5VDC	Wash tight	1-1721438-1
OMI-SH-212DM1	W V	.Vo			12VDC		1-1721438-4
OMI-SH-224DM1	- XX 100	aoM. ·		W.Iv	24VDC		1-1721438-6
OMI-SH-205LM1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J.Co.		540mW	5VDC		1-1721437-1
OMI-SH-212LM1	-XX 100	" ON.			12VDC		1-1721437-4
OMI-SH-224LM1	WIN WY	V.Co.		N. COX.	24VDC		1-1721437-6
OMI-SH-205D1	W	2 form C (CO)		720mW	5VDC		1-1721436-1
OMI-SH-212D1		A COR	- (X)		12VDC		1-1721436-4
OMI-SH-224D1	11	00_{1}		-TXX 100	24VDC		1-1721436-6
OMI-SH-205L1		COn-	NVV 1	540mW	5VDC		1-1721435-1
OMI-SH-212L1	1	1007.			12VDC		1-1721435-4
OMI-SH-224L1	- TVV VV -	* TON'S		TATAN NY	24VDC	N v	1-1721435-6

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