

Miniature PCB Relay OJ/OJE

- 3 to 10A rating
- Small size
- 4000V_{rms} coil to contact dielectric strength (OJ type)
- **■** Sensitive coil optional

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699

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Http://www.100y.com.tw



F0277-C







Typical applications Appliances, HVAC, industrial control

Approvals			
VDE 40007630, 7	ΓUV R 50139166,	cULus E82292,	CQC03001007764
Technical data of apr	proved types on reque	est	

Contact Data	a. WWW.
Contact arrangement	1 form A, 1 NO
Rated voltage	30VDC, 277VAC
Max. switching voltage	30VDC, 277VAC
Rated current	3 to 10A
Contact material	Ag, AgSnO, AgCdO
Min. recommended contact load	100mA, 5VDC
Frequency of operation	360 ops./h
Operate time max.	OJ/OJE-L: 15ms
	OJ/OJE-D/H: 10ms
Release time max.	4ms
Electrical endurance	CONT.
LM 3A, 250VAC, res., -30°C to	+95°C 100x10 ³ ops.
DM EA 050/AC *** 2000 to	

=iectricai e	endurance	
LM	3A, 250VAC, res., -30°C to +95°C	100x10 ³ ops.
DM	5A, 250VAC, res, -30°C to +85°C	60x10 ³ ops.
LMH(2)	8A, 250VAC, res., -30°C to +70°C	100x10 ³ ops.
LMH2	8A, 250VAC,res., -30°C to +85°C	30x10 ³ ops.
HM	10A, 250VAC, res., -30°C to +70°C	100x10 ³ ops.
HM2	10A, 250VAC, res., -30°C to +85°C	10x10 ³ ops.
Contact ra	itings	

HIVI2	TUA, 250VAC, res., -30°C to	+85°C	TUXTUS
Contact ra	tings		
LM		3A, 250VAC	
DM		5A 250VAC	
LMH(2)		8A 250VAC	
HM(2)		10A 250VAC	
Mechanica	al endurance, DC coil	10x10 ⁶ operation	S

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

Coil vers	sions, DC co	il, OJ/OJE-L	sensitive ty	pe ON		
Coil Rated		Operate	Release	Coil	Rated coil	
code	voltage	voltage	voltage	resistance	power	
	VDC	VDC	VDC	Ω±10%	mW	
003	3	2.25	0.15	45	200	
005	5	3.75	0.25	125	200	
006	6	4.5	0.3	180	200	
009	9	6.75	0.45	405	200	
012	12	9	0.6	720	200	
024	24	18	1.2	2880	200	
048	48	36	2.4	11520	200	

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

Coil versions, DC coil, OJ/OJE-D and -H type

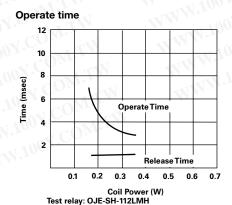
OUII VEI	sions, Do co	ii, Co/CoL-D	and in type	-41 110	
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
003	3	2.1	0.15	20	450
005	5	3.5	0.25	55.6	450
006	6	4.2	0.3	80	450
009	9	6.3	0.45	180	450
012	12	8.4	0.6	320	450
024	24	16.8	1.2	1280	450
048	48	33.6	2.4	5120	450

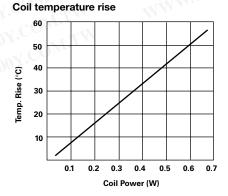
All figures are given for coil without pre-energization, at ambient temperature +23°C

100 HM type, 120VAC Res. LMH type, 250VAC Res. Operation (x 10⁴) 10 LM type, 250VAC Res DM type, 250VAC Res. 4 5 6

Contact Current (A)

Electrical endurance







Miniature PCB Relay OJ/OJE (Continued)

Insulation Data	MAN TO COM
Initial dielectric strength between open contacts	750V _{ms}
between contact and coil	OJ: 4000V _{rms} OJE: 3000V _{rms}
Clearance/creepage	
between contact and coil	OJ: >3.2mm/6.4mm
	OJE: >1.6mm/3.2mm
Tracking index of relay base	PTI 250

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	
DM:	-30°C to +85°C
HM:	-30°C to +70°C
HM2:	-30°C to +85°C
LM	-30°C to +90°C
LMH:	-30°C to +70°C
LMH2:	-30°C to +85°C

Category of environmental protection

IEC 61810 RTII - dust protected RTIII - wash tight 10g Shock resistance (functional)

Shock resistance (destructive) 100g 9g Weight

Resistance to soldering heat THT

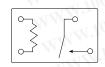
IEC 60068-2-20 RTII: 270°C/10s RTIII: 260°C/5s

Packaging unit tray/100, carton box/1000

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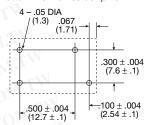
Terminal assignment

Bottom view on solder pins

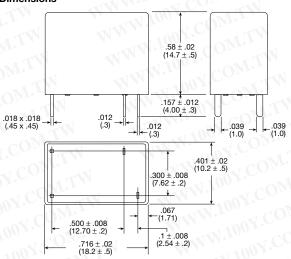


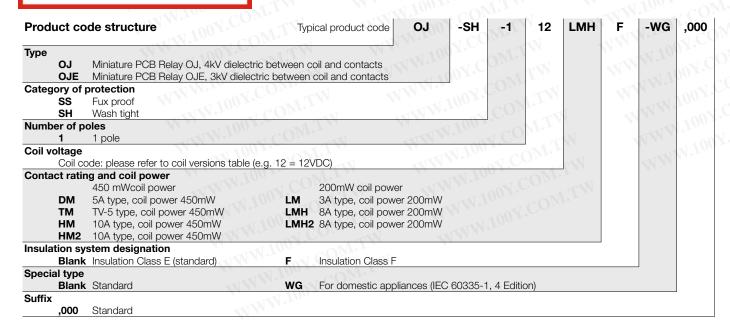
PCB layout

Bottom view on solder pins



Dimensions





Miniature PCB Relay OJ/OJE (Continued)

Product code	Rating	Cont. mat.	Coil	Coil power	Type	Insulation	Enclosure	Part Number
OJ-SH-105LM,000	ЗА	Ag	5VDC	200mW	Standard	Class E	Wash tight	1461404-1
OJE-SH-112LM,000			12VDC		TWIN	A COL		1461401-5
OJE-SS-112LM,000		1007.		1	7	0.7.	Flux proof	4-1419128-6
OJ-SH-112LM,000 OJ-SS-112LM,000		1111		a N		CO.	Wash tight Flux proof	1461404-6 2-1419129-1
OJ-SS-112LM,000	- 1	100		- 1		100	riux prooi	3-1419129-1
OJ-SH-124LM,000			24VDC			CO	Wash tight	1461404-4
OJE-SH-105DM,000	5A	100	5VDC	450mW	-117	1100	VVaori tigrit	1461400-1
OJE-SS-105DM,000			COM	W		LOOK.	Flux proof	2-1419128-8
OJE-SH-112DM,000		10	12VDC		- 11	1.100	Wash tight	1461400-4
OJE-SS-112DM,000	3N			W		LOON.	Flux proof	4-1419128-2
OJ-SH-112DM,000		1111		1/1.		IN In	Wash tight	1461406-4
OJ-SS-112DM,000			0.41/D0		1/1/	, 1007.	Flux proof	1-1419129-8
OJE-SH-124DM,000 OJE-SS-124DM,000		~177	24VDC	CM.		1111.100	Wash tight Flux proof	1461400-5 6-1419128-2
OJ-SS-124DM,000	TIV			WITTE		1100	Tiux proof	2-1419129-9
OJE-SH-105LMH.000	8A	AgCdO	5VDC	200mW			Wash tight	1461403-3
OJE-SH-105LMH-WG		, .5333	1100	2331111	WG type	100	Tracer agric	1721875-2
OJE-SS-105LMH,000	1			CO_{Mr}	Standard		Flux proof	1461034-2
OJ-SH-105LMH,000	WT	11/1/	1007	TIME		11	Wash tight	8-1419128-1
OJ-SH-106LMH,000	Mr	- 11	6VDC	COMP	CA .		COR	1461247-1
OJE-SH-109LMH,000			9VDC				100 P	1461403-2
OJE-SS-109LMH,000 OJ-SH-109LMH,000	OM	1		COM.	CXX		Flux proof Wash tight	5-1419144-3
OJ-SS-109LMH2-WG		AgSnO		1. J.	WG type		Flux proof	1461247-2 1721874-4
OJ-SS-109LMHF,000	CONS	AgCdO		and Com	Standard	Class F	Tiux piooi	1721074-4
OJE-SH-112LMH,000	1.100	7.9040	12VDC	MOD TO	Otaridara	Class E	Wash tight	1461403-4
OJE-SH-112LMH-WG	1 CO			. any.	WG type		- 100 X.	1721875-5
OJE-SS-112LMH,000	· Mo	7		100	Standard		Flux proof	5-1419128-0
OJE-SS-112LMH2	A.Co.	AgSnO		ANY.CO	TIN		1007	1721261-5
OJ-SH-112LMH,000	MOD	AgCdO		1700	11.		Wash tight	9-1419128-8
OJ-SH-112LMH2 OJ-SS-112LMH,000	V.Co.	AgSnO AgCdO		11007.0	OM.TW		Flux proof	1-1721260-1 2-1419129-5
OJ-SS-112LMH2		AgSnO		11.10	O_{M_1} .	1	Flux proof	1721260-5
OJ-SS-112LMHF,000		AgCdO		-1100 Y.		Class F	100	1721200-3
OJE-SH-124LMH,000	-1 CC) ligodo	24VDC	N N. T	$CO_{D_{I}}$	Class E	Wash tight	1461403-5
OJE-SH-124LMH-WG	1007	1171		11007.	WG type			1721875-6
OJE-SS-124LMH,000	-1 C	ONT.		4////	Standard	a (N	Flux proof	7-1419128-1
OJ-SH-124LMH,000	1001	TIV		1003	Mo		Wash tight	1461247-3
OJ-SS-124LMH,000	11.1	ONE		N WY	4 COL		Flux proof	4-1419144-4
OJ-SS-124LMH2	1007.	AgSnO		100	\\(\(\)	7 .		1721260-6
OJ-SS-124LMH2-WG OJ-SS-124LMHF,000		AgCdO			WG type Standard	Class F		1721874-6 1461014-2
OJ-SH-105HM,000	10A	AgCdO	5VDC	450mW	Glailualu	Class E	Wash tight	1461405-3
OJE-SH-112HM,000	1071	9	12VDC		001.0	Class L	Traori tigrit	1461402-6
OJE-SS-112HM,000	-IVI.100	COM		WIN.	7.00	NI.	Flux proof	4-1419128-3
OJE-SS-112HM2,000	M. A.	AgSnO			1007.	WT	. 111 4	1721539-5
OJ-SH-112HM,000	W.10	Ag		With	· Io	OM.	Wash tight	1461405-5
OJ-SS-112HM,000		any.Co.		41,11,	1007.0	TW.	Flux proof	1419135-3
OJ-SS-112HMF,000	NIW.	Y CON	0.41/10.0		N.Io.	Class F		1461078-5
OJE-SS-124HM,000		Anny.Co	24VDC	4/1/	-1100 Y.	Class E		6-1419128-4
OJ-SS-124HM,000 OJ-SS-124HM2,000	WIN	AgSnO			.10	COMP	J	1440007-2 1721538-7
		Agono			NWW.100 WW.100			1/21538-/

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