

Miniature PCB Relay OJT

- UL TV-8 rating (HM type) and UL TV-5 rating (LM/DM type)
- 10A rating (HM type) and 5A rating (LM/DM type)
- Small size (18.2 x 10.2 x 15.2H)
- 4000Vrms coil to contact dielectric strength
- Sensitive coil optional (LM type)

Typical applications Lighting, smart plug, appliances, industrial control.





Approvals

VDE 40007630, TUV R 50432700, UL E82292, CQC08001025528

Technical data of approved types on request.

Contac	ct Data			
Contact	arrangement	1 form A, 1 NO		
Rated vo	oltage	250VAC		
Max. sw	itching voltage	250VAC		
Rated cu	ırrent	10A (OJT-HM)		
		5A (OJT-LM/DM)		
Contact		AgSnO		
Min. reco	ommended contact load	100mA at 5VDC		
Frequen	cy of operation	360 ops./h		
Operate/	release time max.	15ms/4ms		
Electrica	l endurance			
UL508				
HM	TV-8, 120VAC	25x10 ³ ops.		
LM	TV-5, 120VAC	25x10 ³ ops.		
DM TV-5, 120VAC		25x10 ³ ops.		
UL/CQC	/TUV/VDE			
HM	10A, 250VAC, +85°C	10x10 ³ ops.		
HM	10A, 250VAC, +25°C	30x10 ³ ops.		
UL/CQC	∕VDE			
DM	5A, 250VAC res, +85°C	10x10 ³ ops.		
LM	5A, 250VAC res, +70°C	100x10 ³ ops.		
Contact	ratings	LM/DM: TV-5 120VAC		
		LM/DM: 5A 250VAC		
		HM: TV-8 120VAC		
		HM: 10A 250VAC		
Mechanical endurance, DC coil		DM/LM: 5x10 ⁶ operations		
		HM: 1.5x10 ⁶ operations		

Coil Data		
Coil voltage range	DM/LM: 5 to 48VDC	
	HM: 5, 12 and 24VDC	
Operative range, IEC 61810	2	
Coil insulation system according LII	Class F	

Coil versions, DC coil, OJT-LM sensitive type

Con release, De con, Cor Lin constitute type					
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
005	5	3.75	0.25	100	250
006	6	4.5	0.3	144	250
009	9	6.75	0.45	324	250
012	12	9	0.6	576	250
024	24	18	1.2	2304	250
036	36	27	1.8	5184	250
048	48	36	2.4	9216	250

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

Contact Data (continued)

Coil versions, DC coil, OJT-DM standard type

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Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
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
036	36	25.2	1.8	2880	450
048	48	33.6	2.4	5120	450

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

Coil versions, DC coil, OJT-HM standard type

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
005	5	3.5	0.25	55.6	450
012	12	8.4	0.6	320	450
024	24	16.8	1.2	1280	450

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	4000V _{rms}
Clearance/creepage	
between contact and coil	≥ 6.4mm / 6.4mm

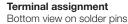
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Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

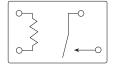
Ambient temperature	-30°C to +85°C
Category of environmental protection	
IEC 61810	RTII - flux proof
	RTIII - wash tight (LM/DM type only)
Shock resistance (functional)	10g
Shock resistance (destructive)	100g
Weight	Approx. 6.0g
Resistance to soldering heat THT	
IEC 60068-2-20	RTII: 270°C/10s
	RTIII: 260°C/5s
Packaging unit	tray/100, Carton box/1000
	tube/50 Carton box/2000



Miniature PCB Relay OJT (Continued)

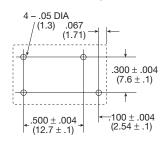


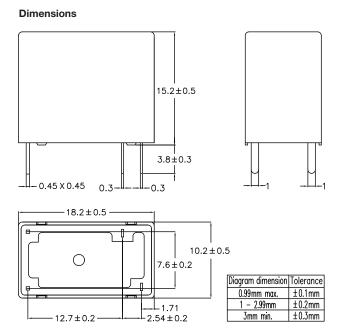


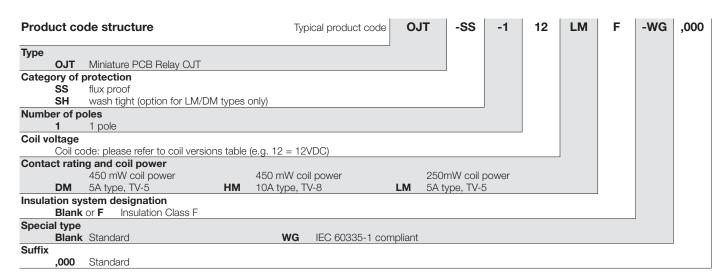


PCB layout

Bottom view on solder pins







Product code	Enclosure	Coil voltage	Coil power	Insulation	Part Number
OJT-SH-112DM,000	Wash tight	12VDC	450mW	Class F	1461116-1
OJT-SH-124DM,000		24VDC			1-1461116-5
OJT-SS-105LM,000	Flux proof	5VDC	250mW		1461492-2
OJT-SS-109DM,000		9VDC	450mW		1461116-5
OJT-SS-112DM,000		12VDC			1-1461116-3
OJT-SS-112LM,000		12VDC	250mW		1461492-5
OJT-SS-124LM,000		24VDC			1461492-7
OJT-SS-105HM,00000		5VDC	450mW		2071508-1
OJT-SS-112HM,00000		12VDC			2071507-1
OJT-SS-124HM.00000		24VDC			2071509-1

Other types on request.

This list represents the most common types and does not show all variants covered by this data sheet.