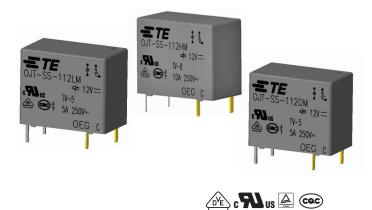


Miniature PCB Relay OJT

- 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 14.7H)
- 4000Vrms coil to contact dielectric strength
- Sensitive coil optional (LM type)



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

Contact Data (continued)

Approvals

VDE 40007630, TUV R 50432700, UL E82292, CQC08001025528 Technical data of approved types on request.

Contact Data				
Contact arrangement	1 form A, 1 NO			
Rated voltage	250VAC			
Max. switching voltage	250VAC			
Rated current	10A (OJT-HM)			
	5A (OJT-LM/DM)			
Contact material	AgSnO			
Min. recommended contact load	100mA at 5VDC			
Frequency of operation	360 ops./h			
Operate/release time max.	15ms/4ms			
Electrical 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 UL	Class F

Coil versions, DC coil, OJT-LM sensitive 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.

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Coil vers	sions, DC co	il, OJT-DM ៖	standard typ	е	
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

	Sions, DC CO	II, OJ I-I IIVI	Stanuaru typ	6	
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
A 11 C					

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	

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conter						
refer to the	e Product Compliance Support Center at					
www.te.c	com/customersupport/rohssupportcenter					
Ambient temperature	-40°C to +85°C					
Category of environmental protection	on					
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					

Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at <u>https://relays.te.com/definitions</u>

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change. 1



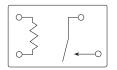
General Purpose Low Power PCB Relays

Miniature PCB Relay OJT (Continued)

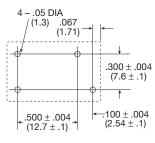
Dimensions

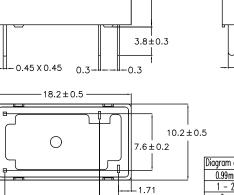
Terminal assignment

Bottom view on solder pins



PCB layout Bottom view on solder pins

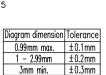




 -2.54 ± 0.2

 12.7 ± 0.2

15.2±0.5



Produ	uct co	de structure		Тур	ical product code	0,	JT	-SS	-1	12	LM	F	-WG	,000
Туре														
	OJT	Miniature PCB Relay OJT												
Categ	ory of	protection												
	SS	flux proof												
	SH	wash tight (option for LM/DI	V types	only)										
Numb	er of p	oles												
	1	1 pole												
Coil vo	oltage													
	Coil co	ode: please refer to coil versio	ns table	(e.g. 12 = 12)	VDC)									
Conta	ct ratir	ig and coil power												
		450 mW coil power		450 mW co	il power		250mV	N coil p	oower					
	DM	5A type, TV-5	HM	10A type, T	V-8	LM	5A typ	e, TV-5	5					
Insulat	tion sy	stem designation												
	Blank	or F Insulation Class F												
Specia	al type													
	Blank	Standard		WG	IEC 60335-1 com	pliant								
Suffix														
	,000 c	r,00000 Standard												

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.

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