

Miniature PCB Relay OJT

UL TV-5 rating

Small size

Approvals

- 4000Vrms coil to contact dielectric strength
- Sensitive coil optional



Typical applications Consumer electronics, appliances, industrial control



Contact Data (continued)

Coil vers	sions, DC co	il, OJT-DM s	tandard typ	e	
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
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

Insulation Data

Initial dielectric strength		
between open contacts	750V _{rms}	
between contact and coil	4000V _{rms}	
Clearance/creepage		
between contact and coil	≥ 7.1mm / 7.1mm	

Other Data

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Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen cont						
refer to the Product Compliance Support Center						
www.te.com/	/customersupport/rohssupportcenter					
Ambient temperature	-30°C to +85°C					
Category of environmental protection						
IEC 61810	RTII - dust protected					
	RTIII - wash tight					
Shock resistance (functional)	10g					
Shock resistance (destructive)	100g					
Resistance to soldering heat THT						
IEC 60068-2-20	RTII: 270°C/10s					
	RTIII: 260°C/5s					
Packaging unit	tray/100, Carton box/1000					

VDE 40007630, TUV R 50139166, 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 cu	urrent	5A		
Contact	material	AgSnO ₂		
Min. rec	ommended contact load	100mA at 5VDC		
Frequen	cy of operation	360 ops./h		
Operate/release time max.		15ms/4ms		
Electrical endurance				
DM	TV-5, 120VAC	25x10 ³ ops		
DM	5A, 250VAC res, +85°C	10x10 ³ ops		
LM	TV-5, 120VAC	25x10 ³ ops.		
LM 5A ,250VAC res, +70°C		100x10 ³ ops		
Contact ratings		TV-5 120VAC		
		5A 250VAC		
Mechanical endurance, DC coil		5x10 ⁶ operations		

Coil Data

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Coil voltage range	3 to 48VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	Class E, 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				
003	3	2.25	0.15	36	250				
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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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

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



OEG

Miniature PCB Relay OJT (Continued)

Terminal assignment

Bottom view on solder pins



PCB layout Bottom view on solder pins





Produ	uct co	de structure	Тур	pical product code	OJT	-SS	-1	12	LM	F	-WG	,000
Туре												
	OJT	Miniature PCB Relay OJT										
Categ	ory of p	protection										
	SS	flux proof										
	SH	wash tight										
Numb	er of p	oles										
	1	1 pole										
Coil vo	oltage											
	Coil co	ode: please refer to coil versions table (e.g.	12 = 12	VDC)								
Conta	ct ratin	g and coil power		·					-			
		450 mWcoil power		200mW coil power								
	DM	5A type, coil power 450mW	LM	5A type, coil power	200mW							
Insula	tion sy	stem designation										
	Blank Insulation Class E (standard) F Insulation Class F											
Specia	al type										_	
-	Blank	Standard	WG For domestic appliances (IEC 60335-1, 4 Edition)									
Suffix												
	,000	Standard										

Product code	Enclosure	Coil votage	Coil power	Insulation	Part Number
OJT-SH-112DM,000	Wash tight	12VDC	450mW	Class E	1461116-1
OJT-SH-124DM,000	Wash tight	24VDC	450mW	Class E	1-1461116-5
OJT-SS-103LM,000	Flux proof	3VDC	250mW	Class E	1461492-1
OJT-SS-105LM,000	Flux proof	5VDC	250mW	Class E	1461492-2
OJT-SS-109DM,000	Flux proof	9VDC	450mW	Class E	1461116-5
OJT-SS-112DM,000	Flux proof	12VDC	450mW	Class E	1-1461116-3
OJT-SS-112LM,000	Flux proof	12VDC	250mW	Class E	1461492-5
OJT-SS-124LM,000	Flux proof	24VDC	250mW	Class E	1461492-7

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