Miniature PCB Relay OJT

■ UL TV-5 rating

Small size

- 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	standard 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	>3.2/6.4mm					

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content							
refer to the Product Compliance Support Center a							
www.tycoelectronics.com/customersupport/rohssupportcente							
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						

Approvals VDE 40007630, TUV R 50139166, cULus 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	5A
Contact material	AgSnO ₂
Min. recommended contact le	bad 100mA at 5VDC
Frequency 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 c	oil 5x10 ⁶ operations

Coil Data

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

09-2010, Rev. 0910

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

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

1

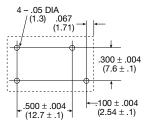
Miniature PCB Relay OJT (Continued)

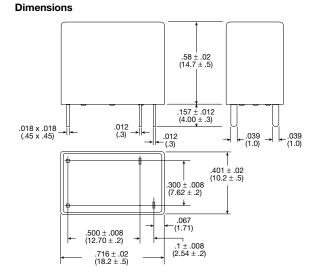
Terminal assignment

Bottom view on solder pins



PCB layout Bottom view on solder pins





Prod	uct co	de structure	Тур	ical product code	OJT	-SS	-1	12	LM	F	-WG	,000
Туре				1								
	OJT	Miniature PCB Relay OJT										
Categ	ory of	protection				_						
-	SS	flux proof										
	SH	wash tight										
Numb	er of p	oles					-					
	1	1 pole										
Coil v	oltage	· · ·						-				
	Coil co	ode: please refer to coil versions table (e.g. 12 = 12	VDC)								
Conta		ng and coil power		/					_			
		450 mWcoil power		200mW coil powe	∋r							
	DM	5A type, coil power 450mW	LM	5A type, coil pow	er 200mW							
Insula	tion sy	stem designation										
	Blank	Insulation Class E (standard)	F	Insulation Class F								
Speci	al type										_	
		Standard	WG	For domestic app	liances (IEC	0 60335-	1, 4 Editi	on)				
Suffix												1
	,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

2

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