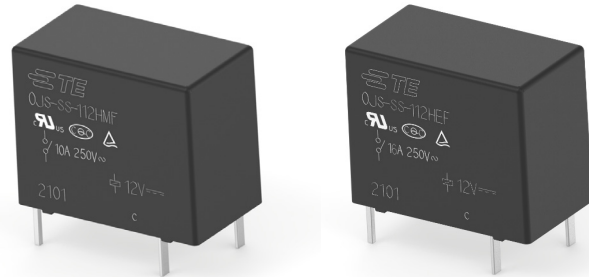


Miniature PCB Relay OJS 10A/16A

- 1 pole 10/16A, 1 form A (NO)
- 10A rating with sensitive coil 200mW
- Small size (18.2 x 10.2 x 14.8mm)
- 4000Vrms coil to contact dielectric strength
- Product in accordance to IEC 62368-1



Typical applications

Lighting, smart plug, power supply, appliances, industrial control.

Approvals

Will change to new certification No. TUV R50497672, UL E82292, CQC21002289617

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, 16A	
Contact material	AgSnOInO	
Min. recommended contact load	100mA at 5VDC	
Frequency of operation	360 ops./h	
Operate/release time max.	15ms/4ms	
Electrical endurance		
UL508		
HM, 10A, 250VAC, +85°C	50x10 ³ ops.	
HE, 16A, 250VAC, +85°C	30x10 ³ ops.	
IEC 61810-1		
8A, 250VAC res, +23°C	100x10 ³ ops.	
Mechanical endurance, DC coil	10x10 ⁶ ops.	

Coil Data

Coil voltage range	5 to 48VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class F

Coil versions, DC coil, OJS-HM type

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
03	3	2.25	0.15	45	200
05	5	3.75	0.25	125	200
06	6	4.5	0.3	180	200
09	9	6.75	0.45	405	200
12	12	9	0.6	720	200
24	24	18	1.2	2880	200
48	48	36	2.4	11520	200

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

Coil versions, DC coil, OJS-HE type

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
03	3	2.25	0.15	20	450
05	5	3.75	0.25	56	450
06	6	4.5	0.3	80	450
09	9	6.75	0.45	180	450
12	12	9	0.6	320	450
24	24	18	1.2	1280	450
48	48	36	2.4	5120	450

Insulation Data

Initial dielectric strength	
between open contacts	750V _{rms}
between contact and coil	4000V _{rms}
Clearance/creepage	
between contact and coil	7mm / 11mm
Type of insulation	Reinforced insulation

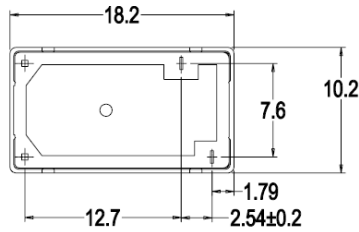
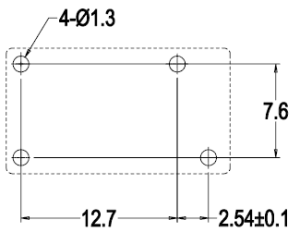
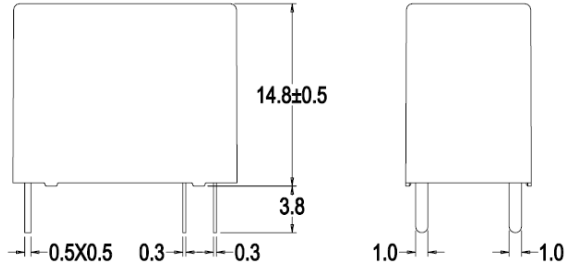
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter	
Ambient temperature	-40°C to +85°C
Category of environmental protection	
IEC 61810	RTII - flux proof RTIII - wash tight
Shock resistance (functional)	10g
Shock resistance (destructive)	100g
Weight	Approx. 5.8g
Resistance to soldering heat THT	
IEC 60068-2-20	RTII: 270°C/10s RTIII: 260°C/10s
Packaging unit	tray/100, Carton box/1000

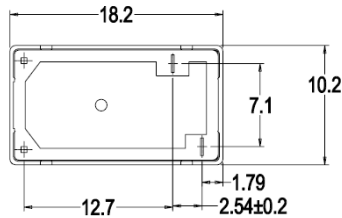
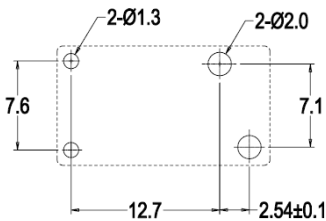
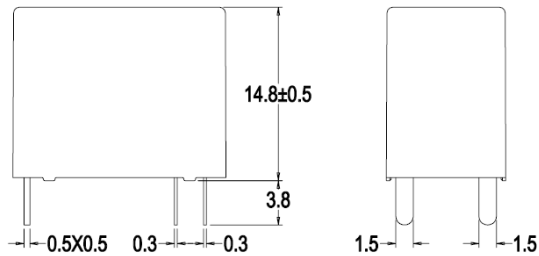
Miniature PCB Relay OJS 10A/16A (Continued)

Dimensions

OJS HM 10A Outline and PCB Layout

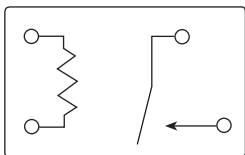


OJS HE 16A Outline and PCB Layout



Terminal assignment

Bottom view on solder pins



Miniature PCB Relay OJS 10A/16A (Continued)

Product code structure	Typical product code	OJS	-SS	-1	12	HM	F	,00000
Type	OJS Miniature PCB Relay							
Category of protection	SS flux proof SH wash tight							
Number of poles	1 1 pole							
Coil voltage	Coil code: please refer to coil versions table (e.g. 12 = 12VDC)							
Contact rating and coil power	HM 200mW coil power, 10A type HE 450mW coil power, 16A type							
Insulation system designation	F Insulation Class F (155°C)							
Suffix	,00000 Standard ,XXXXX customized type							

Product code	Rating	Enclosure	Coil voltage	Coil power	Insulation	Part number
OJS-SH-105HMF, 00000	10A	Wash tight	5VDC	200mW	Class F	2071556-8
OJS-SH-112HMF, 00000			12VDC			2071556-7
OJS-SH-124HMF, 00000			24VDC			2071556-9
OJS-SS-105HMF, 00000		Flux proof	5VDC			2071556-6
OJS-SS-112HMF, 00000			12VDC			2071556-4
OJS-SS-124HMF, 00000			24VDC			2071556-5
OJS-SH-105HEF, 00000	16A	Wash tight	5VDC	450mW		1-2071556-2
OJS-SH-112HEF, 00000			12VDC			2071556-3
OJS-SH-124HEF, 00000			24VDC			1-2071556-0
OJS-SS-105HEF, 00000		Flux proof	5VDC			1-2071556-1
OJS-SS-112HEF, 00000			12VDC			2071556-1
OJS-SS-124HEF, 00000			24VDC			2071556-2

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