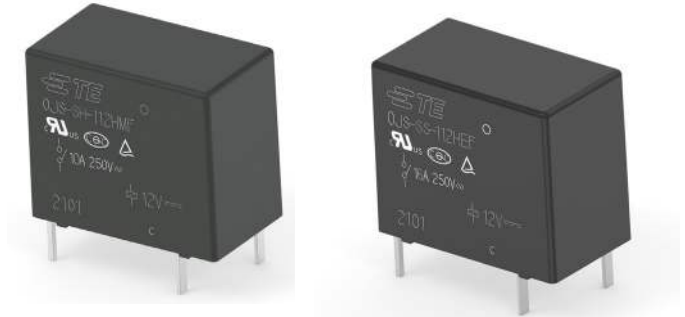


Miniature PCB Relay OJS 10A/16A short pin

- 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

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	277VAC
Rated current	10A(HM), 16A(HE)
Contact material	AgSnOInO
Min. recommended contact load	100mA at 5VDC
Frequency of operation with/without load	360/18000 ops./h
Operate/release time max. (including bounce time)	OJS-HM:15ms/4ms OJS-HE:10ms/4ms

Electrical endurance ¹⁾	
UL, TUV, CQC	
HM, 10A, 250VAC, +85°C	50x10 ³ ops.
HE, 16A, 250VAC, +85°C	30x10 ³ ops.
Internal test	
8A, 250VAC res, +23°C	100x10 ³ ops.
Mechanical endurance, DC coil	10x10 ⁶ ops.

1) Consult with application engineers about contact performance of wash tight version.

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
05	5	3.75	0.25	125	200
12	12	9	0.6	720	200
24	24	18	1.2	2880	200

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
05	5	3.75	0.25	56	450
12	12	9	0.6	320	450
24	24	18	1.2	1280	450
48	48	36	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}
Initial insulation resistance	1000MΩ
Clearance/creepage	
between contact and coil	7mm / 11mm
Type of insulation	Reinforced insulation between coil and contacts

Other Data

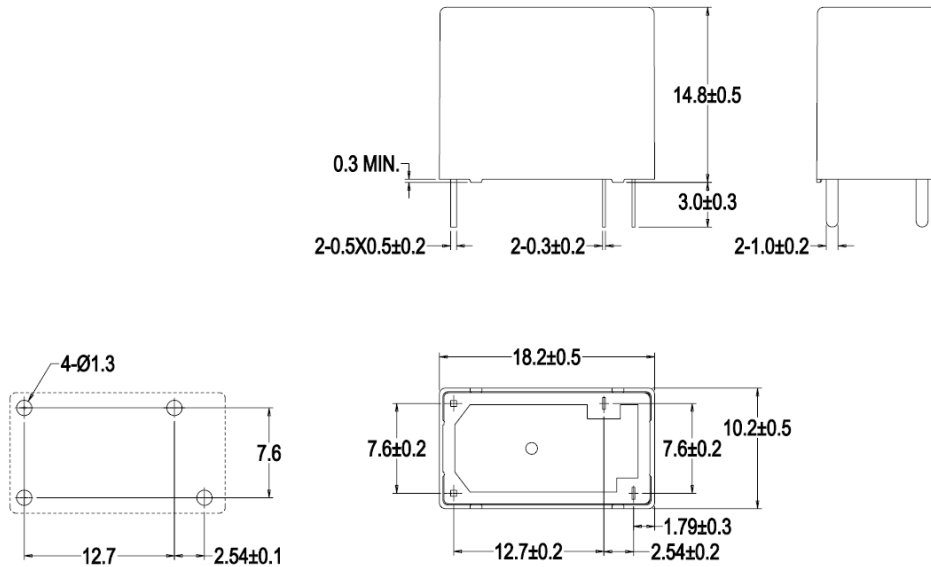
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature	-40°C to +85°C
Category of environmental protection	IEC 61810
	RTII - flux proof RTIII - wash tight
Vibration resistance	10 to 55Hz, double amplitude 1.5mm
Shock resistance (functional)	10g
Shock resistance (destructive)	100g
Cold storage	240h, -40°C
Dry heat	240h, +85°C
Temperature cycling (Shock)	100cycles, -40/+85°C
Thermal endurance	OJS-HM: 1,000hrs, 10A, +85°C OJS-HE: 1,000hrs, 16A, +85°C
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

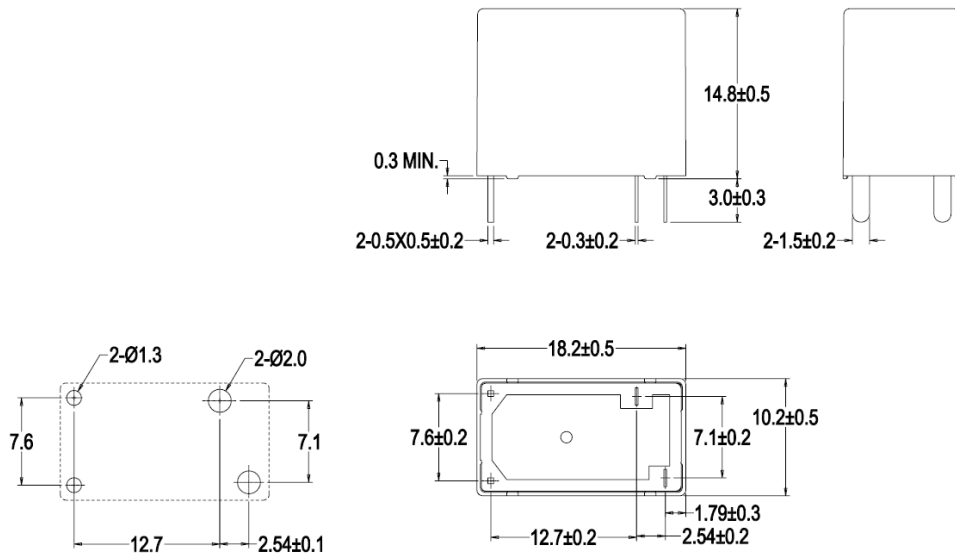
Miniature PCB Relay OJS 10A/16A Short pin (Continued)

Dimensions

OJS HM 10A Outline and PCB Layout

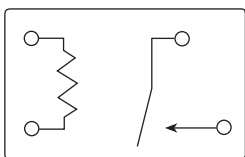


OJS HE 16A Outline and PCB Layout



Terminal assignment

Bottom view on solder pins



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

Product code structure	Typical product code	OJS	-SS	-1	12	HM	F	01000
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 Coil Insulation Class F (155°C)							
Suffix	,00000 Standard ,01000 customized type							

Product code	Rating	Enclosure	Coil voltage	Coil power	Insulation	Part number
OJS-SH-105HMF, 01000	10A	Wash tight	5VDC	200mW	Class F	1-2071556-7
OJS-SH-112HMF, 01000			12VDC			1-2071556-3
OJS-SH-124HMF, 01000			24VDC			1-2071556-8
OJS-SS-105HMF, 01000		Flux proof	5VDC			1-2071556-4
OJS-SS-112HMF, 01000			12VDC			1-2071556-5
OJS-SS-124HMF, 01000			24VDC			1-2071556-6
OJS-SH-105HEF, 01000	16A	Wash tight	5VDC	450mW		2-2071556-2
OJS-SH-112HEF, 01000			12VDC			2-2071556-3
OJS-SH-124HEF, 01000			24VDC			2-2071556-4
OJS-SS-105HEF, 01000		Flux proof	5VDC			1-2071556-9
OJS-SS-112HEF, 01000			12VDC			2-2071556-0
OJS-SS-124HEF, 01000			24VDC			2-2071556-1

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