

OTX36F	Super small power relay
	Features ● 10A switching capability ● 1Form A ,1Form C configurations ● Standard PCB layout ● Dust-proof type and flux-proof type are available ● Outline Dimensions: (23.8×9.5×24.5)mm (24.5×10.5×24.5) mm

CONTACT DATA

Contact Form	1A,1C	
Contact resistance ⁽¹⁾	≤100mΩ	
Contact material	AgCdO;AgSnO ₂	
Load	Resistive load (COS φ =1)	
Contact rating	High capacity type 10A 250VAC 10A 30VDC TV-5 (5A@125VAC)	Standard form 5A 250VAC 5A 30VDC TV-8 (5A@125VAC)
Minimum load	100mA 5VDC	
Max. switching voltage	250VAC/30VDC	
Max. switching current	5A	
Max. switching power	2500VA/300W	
Mechanical endurance	1x10 ⁷ OPS	
Electrical endurance	1x10 ⁵ OPS	

Notes: The data shown above are initial values.

CHARACTERISTICS

Insulation resistance	100mΩ(500VDC)	
Dielectric strength	Between coil & contacts	4000VAC 1min
	Between open contacts	900VAC 1min
Operate time (at rated. volt.)	≤15ms	
Release time (at rated. volt.)	≤8ms	
Shock resistance	Functional	10G
	Destructive	100G
Maximum conversion frequency	Electrical life: 1800 times/hour Mechanical life: 18000 times/hour	
Humidity	5%~85%	
Ambient temperature	-30℃~70℃	

COIL

Coil Power	0.25W,0.54W			
Maximum overload voltage	130% rated voltage at 70℃, 170% rated voltage at 23℃			
COIL DATA				
0.25W				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Voltage VDC	Coil Resistance Ω ±10%
3	≤2.25	≥0.15	83	36
5	≤3.75	≥0.25	50	100
6	≤4.50	≥0.30	42	144
9	≤6.75	≥0.45	28	324
12	≤9.00	≥0.60	21	576

24	≤18.0	≥1.20	10	2304
48	≤36.0	≥2.40	5	9216

0.54W				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Voltage VDC	Coil Resistance Ω ±10%
3	≤2.25	≥0.15	180	16.7
5	≤3.75	≥0.25	108	46
6	≤4.50	≥0.30	90	66.7
9	≤6.75	≥0.45	60	150
12	≤9.00	≥0.60	45	267
24	≤18.0	≥1.20	22.5	1050
48	≤36.0	≥2.40	11.3	4250

Notes:(1) when users have special requirements different from the above parameters, they can negotiate and order
 (2) Coil resistance tolerance: 3-24VDC R (1±10%), 48VDC R (1±15%)

ORDERING INFORMATION

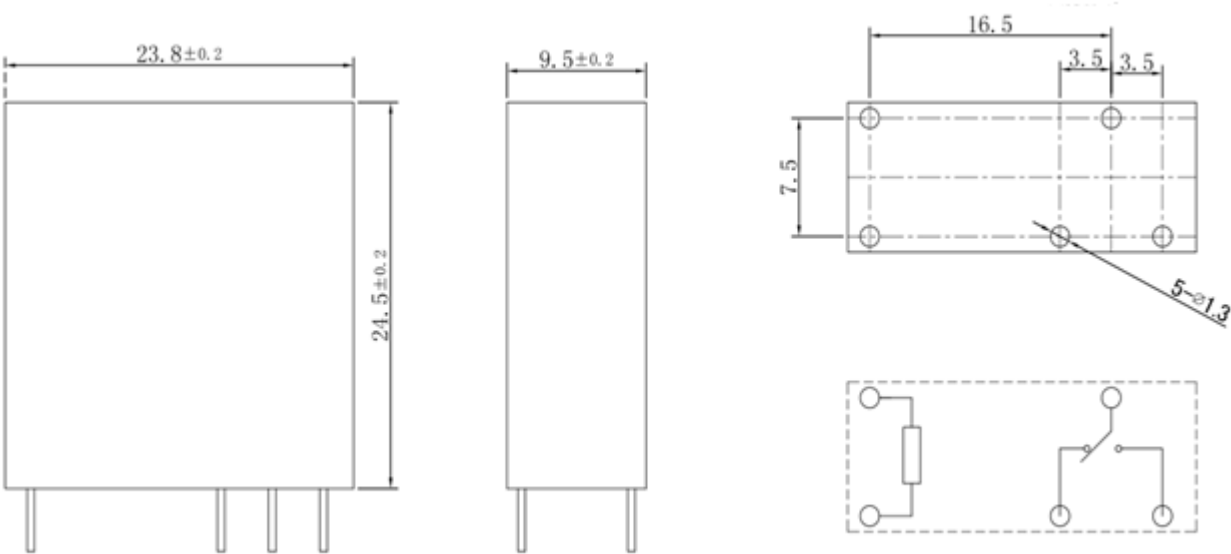
	OTX36F	-DC	-12V	-1A	-D	-	-
Type							
Coil power	DC: Direct current						
Coil voltage	3V, 5V, 6V, 9V, 12V, 18V, 24V, 48V						
Contact arrangement	1A:1FormA 1C:1FormC						
Coil Power	L: 0.25w D:0.54w						
Terminal Configuration	Nil: PCB welding						
Contact Rating	Nil :standard type (5A) T: High capacity type (10A)						
Construction	S: Dustproof type SH: Flux proofed						

Notes: （1）We recommend flux proofed types for a clean environment (free from contaminations like H₂S、SO₂、SO₂, dust, etc.). We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S、SO₂、SO₂, dust, etc).

（2）Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.;

OMTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT

unit: :mm



Notes: (1)In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

(2) The tolerance without indicating for PCB layout and pin size is always ±0.1mm.

(3)This product specification is for reference only, subject to change without prior notice

This specification is for reference only, the actual use is subject to the sample, all relays meet ROHS requirements, if there is any change will not be notified.

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