

OTX13F	MINIATURE INTERMEDIATE POWER RELAY
	● Features ● 2A switching capability ● High sensitivity, coil power consumption 150mW, gold plated contacts ● L Ultra-small, standard double in-line outlet pins ● Dustproof type package form ● Outline Dimensions: (12.4 x 7.4x 10) mm

CONTACT DATA

Contact arrangement	1H,1Z	2H,2Z
Contact resistance ⁽¹⁾	≤100mΩ)	
Contact material	AgCdO;AgSnO2	
Contact rating	15A 250VAC/30VDC	10A 250VAC/30VDC
Max. switching current	15A	10A
Max. switching power	3750VA/450W	3750VA/450W
Max. switching voltage	250VAC/30VDC	
Mechanical endurance	1x10 ^{7ops}	
Electrical endurance	1x 10 ^{5 ops}	
Notes:(1) The data shown above are initial values.		

CHARACTERISTICS

Insulation resistance	500mΩ(500VDC)	
Dielectric strength	Between coil & contacts	1500VAC 1min
	Between open contacts	1000VAC 1min
	Between contact groups	1500VAC 1min
Operate time (at rated. volt.)	≤25ms	
Release time (at rated. volt.)	≤25ms	
Shock resistance	Functional	98m/s2
	Destructive	980m/s2
Vibration resistance	10-55Hz, 1.5mm	
Humidity	5%~85%	
Ambient temperature	-40℃~70℃	
Unit Weight	37g	

COIL	at 20℃			
Coil Power	DC type (0.9 ~ 1.1) W		AC type: about (1.2 ~ 1.8) VA	
COIL DATA				
1 Pole				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Voltage VDC	Coil Resistance ±10%
5	≤4.0	≥0.5	5.5	27.5
6	≤4.8	≥0.6	6.6	40
9	≤7.2	≥0.9	9.9	90
12	≤9.6	≥1.2	13.2	160
21	≤16.8	≥2.1	23.1	490
24	≤19.2	≥2.4	26.4	650
30	≤24.0	≥3.0	33	1000
36	≤28.8	≥3.6	39.6	1440
48	≤38.4	≥4.8	52.8	2600
60	≤48.0	≥6.0	66	4000
110	≤88.0	≥11.0	121	11000

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Voltage VDC	Coil Resistance $\pm 10\%$
6	≤ 4.8	≥ 1.8	6.6	11.5
12	≤ 9.6	≥ 3.6	13.2	46
24	≤ 19.2	≥ 7.2	26.4	184
36	≤ 28.8	≥ 10.8	39.6	410
48	≤ 38.4	≥ 14.4	52.8	735
60	≤ 48.0	≥ 18.0	66	1100
120	≤ 96.0	≥ 36.0	132	4550
200	≤ 160	≥ 66.0	220	12950
220	≤ 176	≥ 72.0	242	14400

ORDERING INFORMATION

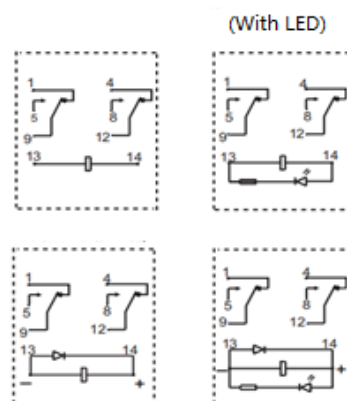
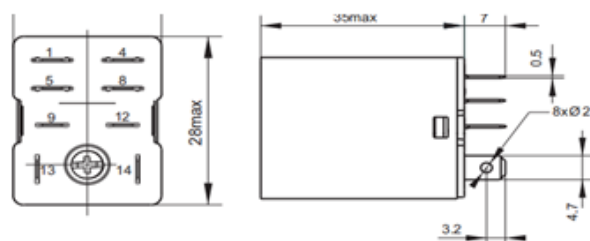
Type	OTX13F	-DC	-12V	-2C	-1	-	-
Coil power supply	A:AC Nil: DC						
Coil voltage	DC(5~220)VDC AC(6 ~ 277)VAC						
Contact arrangement	1A:1FormA 1C:1FormC 2A:2FormA 2C:2FormC						
Installation Method	1: socket type 2: PCB 3: Flange-Mounting						
Contact material	1:AgCdO 2:AgSnO2 3: AgCdO +Au plated 4:AgSnO2+Au plated						
Light emitting diode	D: With L ED Nil: Without LED J:with free wheeling diode DJ: with light emitting diode and with free wheeling diode						

Notes: (1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S, SO₂, NO₂, dust, etc.). We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc).

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

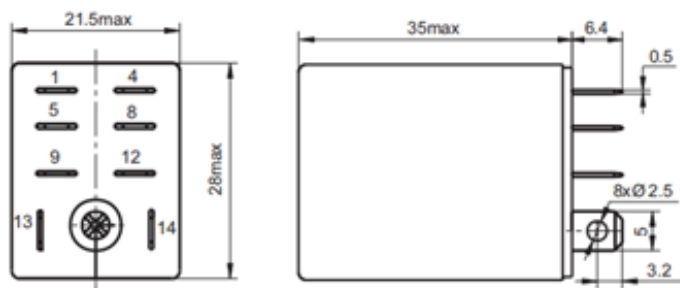
OMTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT UNIT : MM

OTX-13F/ 2Z1

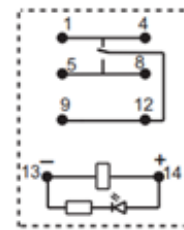
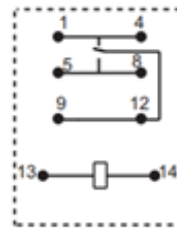


Instructions: Continuous diode products need to distinguish between positive and negative poles. LED only products do not need to distinguish between positive and negative poles.

OTX-13F/ 1Z1



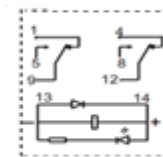
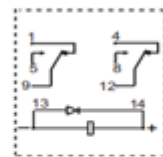
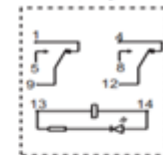
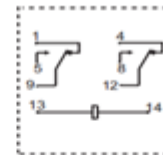
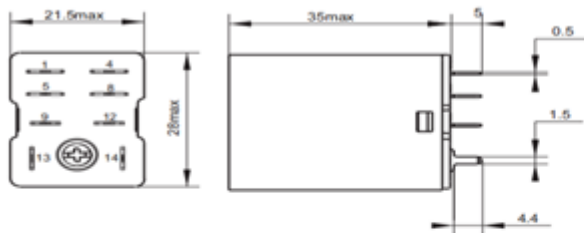
(With LED)



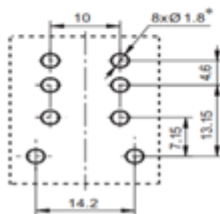
Instructions: AC LED products have no positive and negative points

OMTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT UNIT : MM

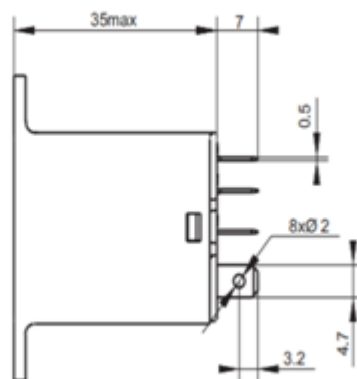
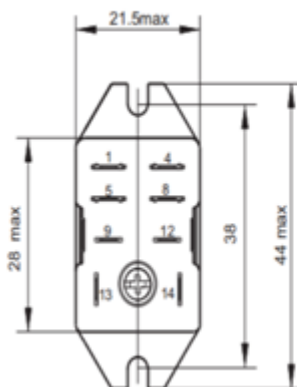
OTX-13F/ 2Z2



Instructions. Continuous diode products need to distinguish between positive and negative poles. LED only products do not need to distinguish between positive and negative poles.



OTX-13F/ 2Z5



Notes: (1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.

(2) The tolerance without indicating for PCB layout and pin size is always $\pm 0.1\text{mm}$.

(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. web: www.qingmu.hk