

OTX18F	MINIATURE INTERMEDIATE POWER RELAY
	● Features ● Multiple types of relays including built-in leds ● 2 Form Z、4 FormZ configurations Plastic ● Withstand voltage between coil contacts 2000V ● High electrical life, high mechanical life ● Automated production ● With test button specifications ● Outline Dimensions: (28×21.5×36)mm

CONTACT DATA

Contact arrangement	2Z	4Z
Contact resistance ⁽¹⁾	≤100mΩ)	
Contact material	AgCdO;AgSnO2	
Contact rating	7A 220VAC/24VDC	5A 220VAC/24VDC
	5A 220VAC/24VDC	3A 220VAC/24VDC
Max .switching current	7A	5A
Max. switching power	1750VA/210W	1100VA/120W
Max. switching voltage	220VAC/24VDC	
Mechanical endurance	1x10 ^{7ops}	
Electrical endurance	See contact parameter table for details	
Notes:(1) The data shown above are initial values.		

CHARACTERISTICS

Insulation resistance	1000mΩ(500VDC)	
Dielectric strength	Between coil & contacts	2000VAC 1min
	Between open contacts	1000VAC 1min
	Between contact groups	2000VAC 1min
Operate time (at rated . volt.)	≤20ms	
Release time (at rated. volt.)	DC type: 15ms max. AC type: 25ms max.	
Shock resistance	Functional	200m/s2(NO) 100m/s2(NC)
	Destructive	1000m/s2
Vibration resistance	10-55Hz, 1.5mm	
Humidity	5%~85%	
Ambient temperature	-40℃~70℃	
Unit Weight	37g	
Construction	Dust protected	

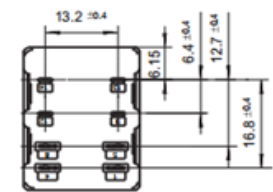
COIL	at 20℃			
Coil Power	DC type: Approx (0.8 ~ 1.1) W AC type: Approx (0.9 ~ 1.2) VA			
COIL DATA				
1 Pole				
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Voltage VDC	Coil Resistance ±10%
6	≤4.8	≥0.6	6.6	41
12	≤9.6	≥1.2	13.2	165
24	≤19.2	≥2.4	26.4	662
48	≤38.4	≥4.8	52.8	2725
110	≤80	≥11	110/121	11440

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Voltage VDC	Coil Resistance ±10%
12	≤9.60	≥3.60	13.2	46
24	≤19.2	≥7.20	26.4	180
48	≤38.4	≥14.4	52.8	788
120	≤88.0	≥36.0	121/132	4430
220	≤160.0	≥66.0	220/242	12950

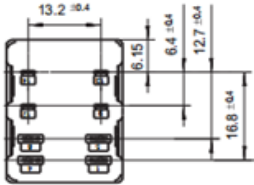
Product model and specification	Contact Form	The environment temperature	Contact current	Contact open circuit voltage	Off time	Cycle index
OTX18F	2Z	23°C	7A	220 va. C or 24 vd. C (NO terminal or NC terminal)	It is connecte d for 0.5s and disconne cted for 1s	1 x 10 ⁵ ops
		70°C				5 x 10 ⁵ ops
		23°C	5A	220VA.C(NO terminal) (DC type)		5x 10 ⁵ ops
				220VA.C(NC terminal) (DC type)		5x 10 ⁵ ops
				220VA.C (NO end) (ac type)		4 x 10 ⁵ ops
				220VA.C (NC end) (ac type)		4x10 ⁵ ops
				24VD.C(NO terminal)		5 x10 ⁵ ops
				24VD.C (NC terminal)		5 x 10 ⁵ ops
	4Z	23°C	5A	220 va. C or 24 vd. C (NO terminal or NC terminal)	1 x 10 ⁵ ops	
		70°C			5 x10 ⁵ ops	
		23°C	5A	220 va. C or 24 vd. C (NO terminal or NC terminal)	2x 10 ⁵ ops	
		70°C			1x 10 ⁵ ops	

ORDERING INFORMATION

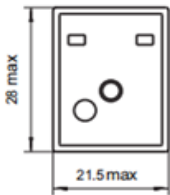
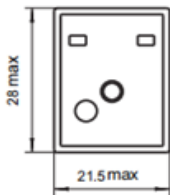
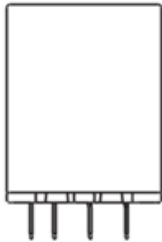
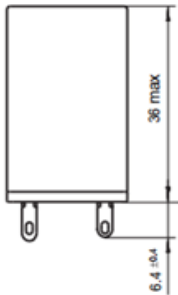
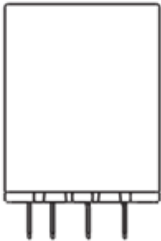
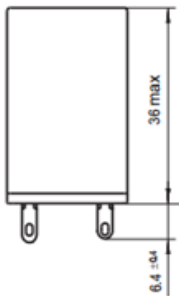
Type	OTX18F	-DC	-12V	-2C	-1	-	-
Coil power supply	A:AC	Nil: DC					
Coil voltage	DC(6~220)VDC	AC(12~240)VAC					
Contact arrangement	2Z:2FormZ	4Z:4FormZ					
Installation Method	1: socket type						
Contact material	1:AgCdO	2:AgSnO2					
Light emitting diode	Nil: Without Component	J:with free wheeling diode					
Interface function code	1 ; No LED no button	2:With LED no button	3:With LED and button				
Contact plating	G: gold-plated	Nil: No gold-plated					



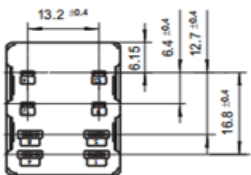
OTX-18F/ 2Z2-1



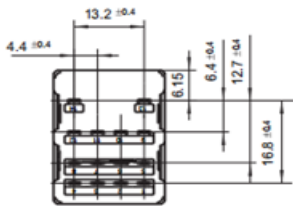
OTX-18F/ 2Z2-2



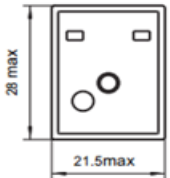
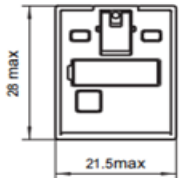
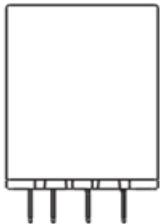
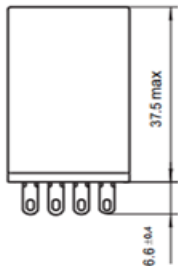
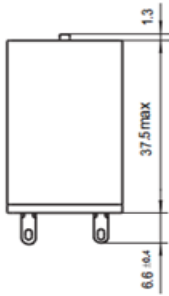
↺

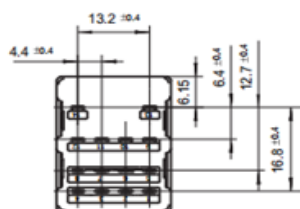


OTX-18F/ 2Z2-3

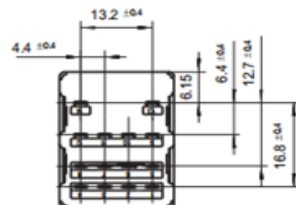
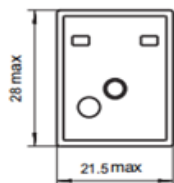
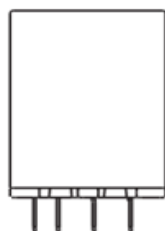
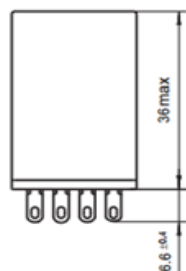


OTX-18F/ 4Z2-1

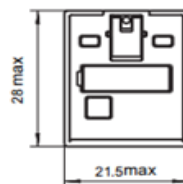
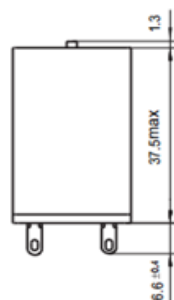




OTX-18F/ 4Z2-2+J

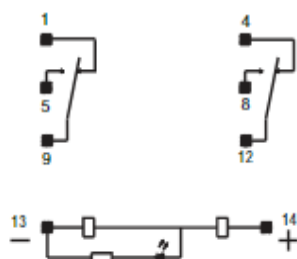


OTX-18F/ 4Z2-3+J

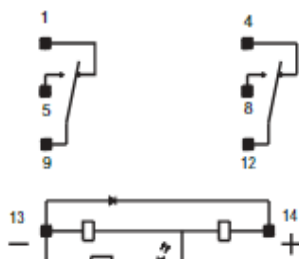


WIRING DIAGRAM(BOTTOM VIEW)

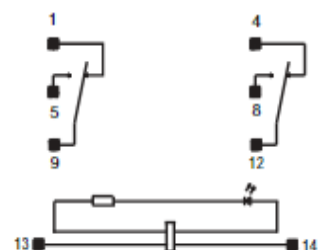
2 Form C(DC,With LED)
(Without 220VDC)



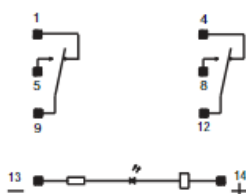
2 Form C
(DC, With fly-wheel diode and LED)
(Without 220VDC)



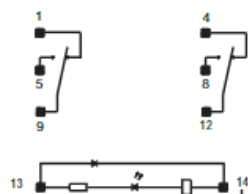
2 Form C
(AC, With LED)



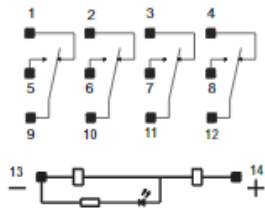
2 Form C(DC, With LED)
(220VDC)



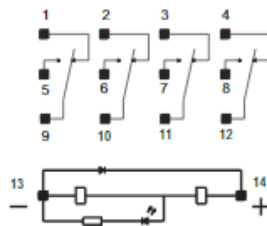
2 Form C
(DC, With fly-wheel diode and LED)
(220VDC)



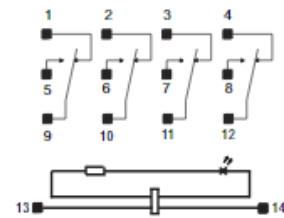
4 Form C(DC, With LED)
(Without 220VDC)



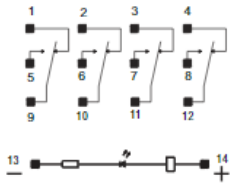
4 Form C
(DC, With fly-wheel diode and LED)
(Without 220VDC)



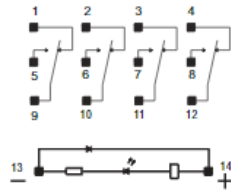
4 Form C
(AC, With LED)



4 Form C(DC, With LED)
(220VDC)



4 Form C
(DC, With fly-wheel diode and LED)
(220VDC)



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