

OTX77F	Power relay
	Features ● 12A switching capability ● Low height, flat construction ● Standard PCB layout ● Dust-proof type and flux-proof type are available ● Outline Dimensions: (18.4×15.2×10.2) mm

CONTACT DATA

Contact arrangement	1A,
Contact resistance ⁽¹⁾	100mΩMax at24VDC 1A
Contact material	AuAg
Load	Resistive load (COS φ =1)
Contact rating	10A/277VAC 12A/125VAC 10A/30 VDC
Max. switching voltage	277VAC/30VDC
Max. switching current	12A
Max. switching power	2770VA/300W
Mechanical endurance	1x10 ⁷ OPS(at 30 times/min)
Electrical endurance	1x10 ⁵ OPS(at 30 times/min)

Notes:(1)The data shown above are initial values.

(2) Electrical durability is the data tested by using normally open or normally closed contacts

CHARACTERISTICS

Insulation resistance	100mΩ(500VDC)	
Dielectric strength	Between coil & contacts	2500VAC 1min
	Between open contacts	750VAC 1min
Operate time (at rated. volt.)	8ms	
Release time (at rated. volt.)	5ms	
Shock resistance	Functional	10G
	Destructive	100G
Vibration resistance	10-55Hz, 1.5mm	
Humidity	5%~85%	
Ambient temperature	-40℃~85℃	
Maximum conversion frequency	Electrical life: 1800 times/hour	
	Equipment life: 18000 times/hour	

COIL

at20℃

Coil Power		0.45W			
COIL DATA					
Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. Voltage VDC	Coil Resistance Ω±10%	Maximum overload voltage
3	≤2.20	≥0.15	150	20	130% rated voltage at 70℃, 170% rated voltage at 23℃
5	≤3.80	≥0.25	90	56	
6	≤4.50	≥0.30	75	80	
9	≤6.80	≥0.45	50	180	
12	≤9.00	≥0.60	37.5	320	
24	≤18.0	≥1.20	18.7	1280	
48	≤36.0	≥2.40	9.4	5120	

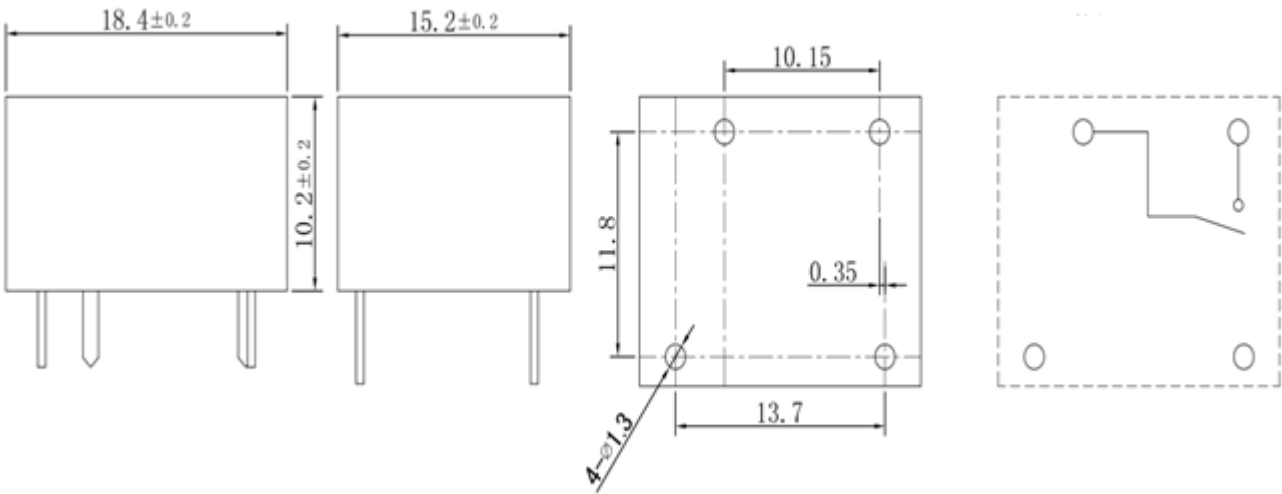
ORDERING INFORMATION

	OTX77F	-DC	-12V	-1A	-D	-	-
Type							
Coil power	DC: Direct current						
Coil voltage	3V, 5V, 6V, 9V, 12V, 18V, 24V, 48V						
Contact arrangement	1A:1FormA						
Coil Power	D: 0.45w						
Construction	S: Type dust SH: Flux proofed						
Installation Method	Nil : PCB welding						

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).

OMTLNE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT

unit :mm



Notes: (1)In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and ≤ 5 mm, tolerance should be ± 0.3 mm; outline dimension > 5 mm, tolerance should be ± 0.4 mm.
(2) The tolerance without indicating for PCB layout and pin size is always ± 0.1 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