



**MINIATURE POWER
RELAYS**
16A 1 POLE PC BOARD TYPE

JQX-115F-I



- High Inrush TV-5 80A
- 1 Form A
- 5KV dielectric coil to contacts
- Low height 15.7 mm
- Sealed & unsealed type available
- Creepage distance 10mm

■ CONTACT DATA

Arrangement	1A	
Initial Contact Resistance Max. (at 1A 6VDC)	50 mΩ	
Contact Material	Silver alloy	
Max. switching voltage	440VAC	
Max. switching current	16 A	
Max. switching power	4,000 VA	
Contact rating	10 A 250 VAC 1×10 ⁵ ops (360 ops / hour)	
Inrush rating	TV-5, 80 A 250 VAC 2.5×10 ⁴ ops	
Expected Operations	Mechanical	1×10 ⁷ ops (72,000 ops/hour)
Life min.	Electrical	1×10 ⁵ ops (360 ops/hour)

■ COIL

Nominal coil power	0.4 W
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■ SPECIFICATION

Initial Insulation Resistance	1,000 MΩ 500 VDC	
Dielectric Strength	5,000 VAC	
Between coil and Contacts		
Between open contacts	1,000 VAC	
Surge Voltage between Contacts and coil	10,000 V (1.2 ×50 us)	
Operate time (at nomi. Volt.)	7 ms	
Release time (at nomi. Volt.)	3 ms	
Temperature rise (at nominal voltage)	Max. 55 °C	
Shock Resistance	Functional	100 m/s ²
	Destructive	1000 m/s ²
Vibration Resistance	10 to 150 Hz 20g	
Humidity	35% to 85%	
Ambient temperature	-40 °C to 85 °C	
Termination	PCB	
Unit weight	13.5 g	
Construction	Sealed & unsealed	

■ TABLE

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Current (at 20 °C) mA	Coil Resistance (at 20 °C) Ω
5	3.50	0.5	80.0	62 ± 10 %
6	4.20	0.6	66.7	90 ± 10 %
12	8.40	1.2	33.3	360 ± 10 %
24	16.80	2.4	16.7	1,440 ± 10 %
48	33.60	4.8	8.3	5,760 ± 15 %
60	42.00	6.0	8.0	7,500 ± 15 %
110	77.00	11.0	4.3	25,200 ± 15 %

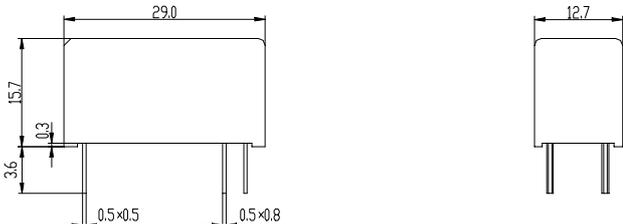
■ ORDERING INFORMATION

JQX-115F-I / 012 ----- 1H S 3

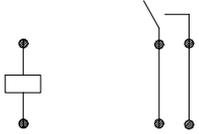
Coil voltage	Contact arrangement	Classification of type	Version
5,6,12,24, 48,60,110 VDC	1H:1 Form A	Nil: Unsealed S: Sealed	3 : 5.0 mm

■ OUTLINE DIMENSIONS , WIRING DIAGRAM AND PC BOARD LAYOUT

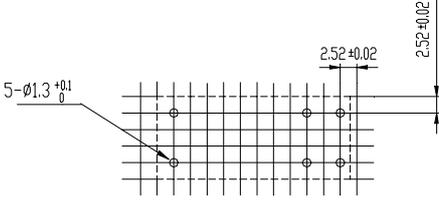
● Outline Dimensions



● Wiring Diagram
(JQX-115F/XXX-1HX3I)
5mm 1 Form A

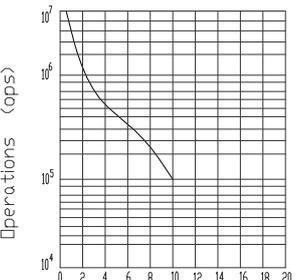


● PC Board Layout
(JQX-115F/XXX-1HX3I)
5mm 1 Form A



■ USEFUL CURVES (Maximum switching power, Life Curve, Coil temperature rise)

● Contact electrical life



● Coil operating range DC

