



# Fastron Electronics

# F13F

Miniature High Power Relay



Relay  
F13F

Metal retainer  
006

Relay Socket

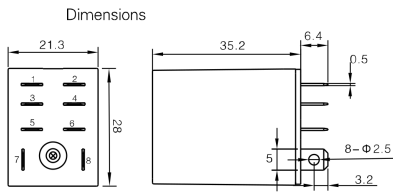
Other sockets are available



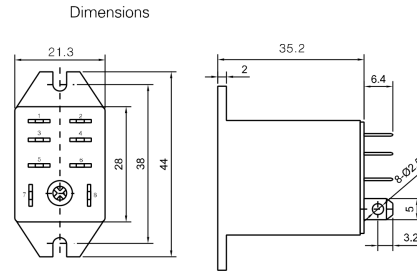
# F13F

## Dimensions

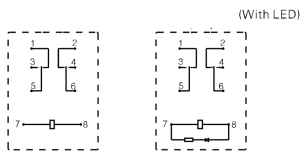
F13F-2P



F13F-2P2



Wiring Diagram



PCB Layout





# Fastron Electronics

- 15A Switching capability
- Various terminals available
- Sockets available
- Conform to the CE low voltage directive
- 1 & 2 pole configurations
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (28.0x21.3x35.2)mm



## Technical Data

### Contact Data

Contact arrangement	2P
Contact resistance (typical)	100mΩ (1A 6VDC)
Contact materials	AgSnO, AgCdO
Contact load (resistance)	10A 250VAC/ 30VDC
Max. switching voltage	250VAC/30VDC
Max. switching current	10A
Max. switching power	2500VAC/ 300W
Mechanical endurance	1x10 <sup>7</sup>
Electrical endurance	1x10 <sup>6</sup>

### Characteristics

Insulation resistance	500MΩ (500VDC)	
Dielectric Strength	Between coil and contact	1500VAC 1Min
	Between open contacts	1000VAC 1Min
	Between contact sets	1500VAC 1Min
	Operate time	25ms
	Release time	25ms
Shock resistance	Functional	100m/s <sup>2</sup>
	Destructive	1000m/s <sup>2</sup>
	Vibration	10~55Hz 1mm
	Humidity	98%RH, +40°C
	Ambient temperature	-40°C~+55°C
	Termination	PCB, plug-in
	Weight	37g
	Construction	Dust protected

### Coil Data

Coil power	AC: 900mW; DC: 1.2VA
------------	----------------------

### DC Coil Data(23°C)

(VDC) Rated voltage	(VDC) Pick-up voltage	(VDC) Drop-out voltage	(Ω) Coil resistance
6	≦ 4.8	≧ 0.6	40±10%
12	≦ 9.6	≧ 1.2	160±10%
24	≦ 19.2	≧ 2.4	650±10%
48	≦ 38.4	≧ 4.8	2600±10%
110	≦ 88.0	≧ 11.0	11000±10%