

GENERAL CONTROL RELAY
ETR SF/SFG SERIES

■FEATURES

- SF: Flat formed type power relay rating 16A.
- SFG: Flat formed type power relay with fasten terminals and PC board terminals.
- Low power consumption 200mW.
- Halogen Free series available.
- Comply with RoHS and REACH regulations.

■SPECIFICATIONS

Contact Resistance		Max. 100mΩ at initial value. @1A,6VDC
Contact Capacity	SF	16 Amps at 250VAC Cosφ=1 15 Amps at 24VDC L/R=0
	SFG	12 Amps at 125VAC Cosφ=1 10 Amps at 24VDC L/R=0
Operate Time		20m Sec. Max.
Release Time		10m Sec. Max.
Dielectric Strength		Between coil & Contact: 1500VAC at 50/60Hz for one minute Between Contacts: 1000VAC at 50/60Hz for one minute
Insulation Resistance		100MΩ Min. at 500VDC

■COIL SPECIFICATION AT 20℃

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max. Allowable Voltage (VDC)
SF/SFG	5	40	125	Abt. 0.20	70% Max.	5% Min.	150%
	6	34	180				
	9	23	405				
	12	17	720				
	18	11	1,620				
	24	8.3	2,880				
	48	4.2	11,520				
	100	5.6	18,000	Abt. 0.56	70% Max.	5% Min.	150%

■PART NUMBER SYSTEM

ETR SF - SS - 1 12 D M F Z

- Z: RoHS Compliant
- Insulation System
  Nil: Standard Class
  F: Class F
- Contact Form:
  M: One Form A
- Coil Type:
  D: Standard DC Coil
- Coil Voltage:
  05:5V, 06:6V, 09:9V, 12:12V
  18:18V, 24:24V, 48:48V, 100:100V
- Number of Pole:
  1: One Pole
- Type of Sealing:
  SS: Flow Solder Type
  SH: Plastic Sealed Type
- Model Name: SF/SFG
- Series Name: ETR

***Marking without: "ETR" & "Z".**

ETR SF-SH-112DM

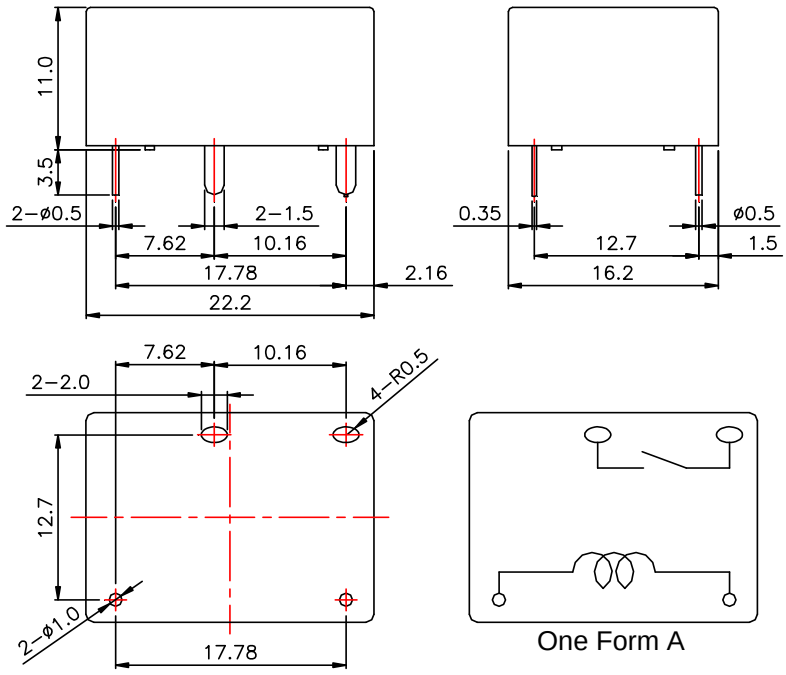


ETR SFG-SH-112DM



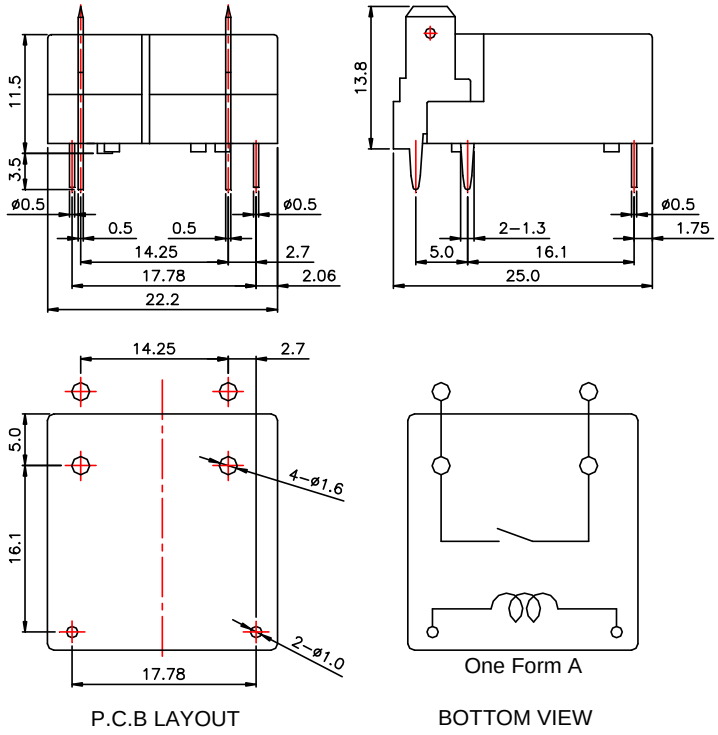
■DIMENSIONS (≦5mm±0.2mm, ＞5mm±0.3mm, the tolerance of PCB thru hole: +0.1mm)

ETR SF-SS/SH



P.C.B LAYOUT BOTTOM VIEW

ETR SFG-SS/SH



P.C.B LAYOUT BOTTOM VIEW