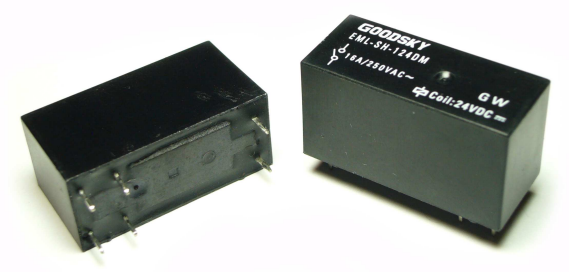


Main Feature

1. High switching current at 16A in small size.
2. 1 N/O contact with a tungsten pre-make contact.
3. Dielectric Strength up to 5,000VAC.
4. 1 pole 16 A, 1 NO contact (W pre-make contact + AgSnO2). 165 A / 20 ms inrush peak current.

Contact Rating

Load Type	EML (DM)
Rated Load (Resistive)	16A 250VAC
Rated Carrying Current	16A
Max. Allowable Voltage	AC 400V
Max. Allowable Current	16A
Max. Allowable Power Force	4000VA
Contact Material	R: Ag Alloy, L: W
Contact Capacity	Tungsten Load: 3000W/230VAC
	Inrush peak current (20ms): 165A
	16A.250VAC,capacitive load 140 μf
	TV-5 120VAC
Contact Form	SPST

Application

Lamp Control, Audio Equipment, Domestic Appliance and Controlling Equipment…etc.

Performance (at Initial Value)

- Contact Resistance ..... 100 mΩ Max.@1A,6VDC
- Contact Rating(resistive load)
- Operate Time ..... 8 mSec. Max.
- Release Time ..... 3 mSec. Max.
- Dielectric Strength:
  Between Coil & Contact ..... 5,000VAC at 50/60Hz for one minute.
  Between Contacts ..... 1,000VAC at 50/60Hz for one minute.
- Surge Strength ..... 10,000V (between coil & contact 1.2x50uSec.)
  Insulation Resistance ..... 100MΩ Min. at 500VDC.
- Max. On/Off Switching:
  Electrical ..... 6 Cycles per Minute.
  Mechanical ..... 300 Cycles per Minute.
- Vibration:
  Endurance ..... 10 to 55Hz dual amplitude width 1.5mm.
  Error Operation..... 10 to 55Hz dual amplitude width 1.5mm.
- Humidity Range ..... 45~85% RH.
- Temperature Range..... -45~85℃.
- Coil Temperature Rise ..... 45℃ Max.
- Shock:
  Endurance ..... 1,000 m/S^2 .
  Error Operation..... 100 m/S^2 .
- Life Expectancy:
  Electrical ..... $5x10^4$ Operations at Rated Resistive Load.
  $1.2x10^4$ Operations at Tungsten Load.
  Mechanical..... $5x10^6$ Operations at No Load condition.
- Contact Material..... Ag Alloy,W.
- Weight ..... About 12.5 g.

Accessories & Sockets

- PI-50BE ..... See Page 175
- PI-50BE/3 ..... See Page 175
- PI-50-0..... See Page 177

Safety Standard & File Number

- NIL.

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)	Maximum Allowable Voltage (VDC)
EML DC Coil	3	130	23	Abt. 0.40	70% Maximum	10% Minimum	130%
	5	80	63				
	6	67	90				
	9	44	203				
	12	33	360				
	15	27	563				
	18	22	810				
	24	17	1440				
	48	8	5760				
	60	7	9000				

Ordering Information

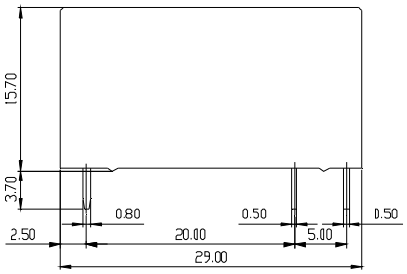
EML - SH - 1 12 D M

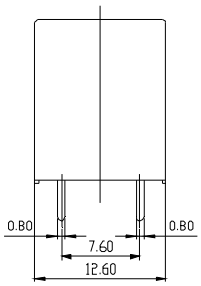
Contact Form:	**M:** One Form A
Coil Type:	**D:** Standard DC Coil
Coil Voltage:	**03:** 3V, **05:** 5V, **06:** 6V, **09:** 9V, **12:** 12V, **15:** 15V, **18:** 18V, **24:** 24V, **48:** 48V, **60:** 60V
Number of Pole:	**1:** One Pole
Type of Sealing:	**SS:** RT II Flux Proofed Relays **SH:** RT III Wash Tight Relays
Type:	**EML**

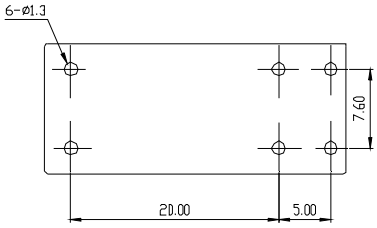
Classification

Model	**EML**
Coil Sensitivity	DC Coil
Contact Form	1A
Flow Solder Type	EML-SS-1□□DM
Plastic Sealed Type	EML-SH-1□□DM

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







P.C.B. Layout

BOTTOM VIEW