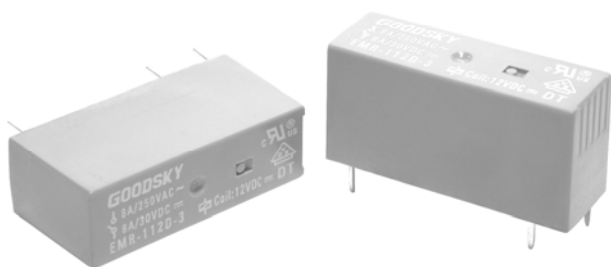


Main Feature



1. 1 C/O & 1 N/O & 1 N/C Contact.
2. 4KV / 8 mm coil-contact.
3. Pinning: 3.2 and 5.0 mm.
4. Protection class II.
5. Especially suitable for resistive and inductive loads on N/O and N/C contacts.



Contact Rating

Load Type	EMR (DM)	EMR (D)
Rated Load (Resistive)	8A 250VAC	8A 250VAC
	5A 30VDC	5A 30VDC
Max. Allowable Voltage	AC 380V	AC 380V
	DC 120V	DC 120V
Max. Allowable Current	8A	8A
Max. Allowable Power Force	2,000VA	2,000VA
	150W	150W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	SPDT

Application

Heating Control, Interface Technology, Domestic Appliances, and Times, Temperature Control.

Performance (at Initial Value)

- Contact Resistance 100 mΩ Max. @1A,6VDC
- Operate Time..... 12 mSec. Max.
- Release Time 4 mSec. Max.
- Dielectric Strength:
 - Between Coil & Contact 4,000VAC at 50/60 Hz for one minute.
 - Between Contacts 1,000VAC at 50/60 Hz for one minute.
- Surge Strength 10,000V (between coil & Contact 1.2x50μSec.)
- Insulation Resistance 1,000 MegaΩ Min. at 500VDC.
- Max. On/Off Switching:
 - Electrical..... 6 Cycles per Minute.
 - Mechanical 300 Cycles per Minute.
- Temperature Range..... -40~85°C
- Humidity Range..... 45~85% RH.

- Coil Temperature Rise 40°C Max.
- Vibration :
 - Endurance 10 to 55 Hz dual amplitude width 1.5mm.
 - Error Operation..... 10 to 55 Hz dual amplitude width 1.5mm.
- Shock:
 - Endurance 1,000 m/S².
 - Error Operation..... 100 m/S².
- Life Expectancy:
 - Electrical 10⁵ Operations at Rated Resistive Load. (tested with flow solder type relay)
 - Mechanical 10⁷ Operations at No load condition.
- Weight about 11.0 g.

Safety Standard & Its File Number

- C-UL E141060
- VDE 40016958

Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
EMR	5	44.2	113	Abt. 0.22	EMR-D-3 80%Max EMR-DM(B)-5 75%Max	5% Minimum	135%
	6	36.6	164				
	9	24.4	368				
	12	18.3	650				
	18	12.2	1,475				
	24	9.2	2,620				
	48	5.2	9,210				
	60	3.7	16,364				

Ordering Information

EMR - 1 12 D M - 3 G F

Type of Sealing

Nil : Plastic Sealed Type

F : Flow Solder Type

Contact Material:

Nil: AgNi

G: AgNi, Gilded

O: AgNi, Au Plated

N: AgSnO₂S: AgSnO₂, Gilded

3: Pinning 3.2mm

5: Pinning 5.0mm

Contact Form:

Nil: One Form C

M: One Form A

B: One Form B

Coil Type:

D: Standard DC Coil

Coil Voltage:

05: 5V, 06: 6V, 09: 9V, 12: 12V

18: 18V, 24: 24V, 48: 48V, 60: 60V

Number of Pole:

1: One Pole

Type:

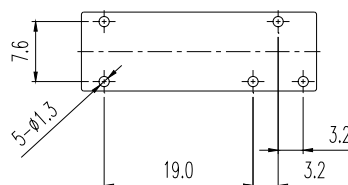
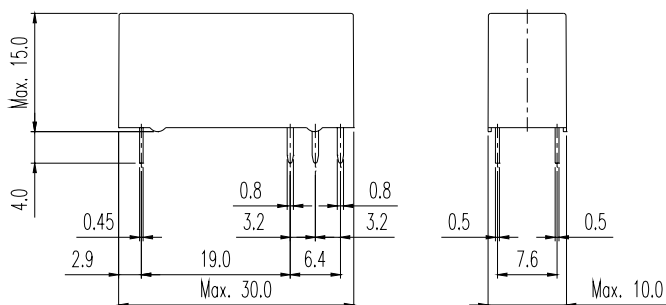
EMR

Classification

Model	EMR		
Coil Sensitivity	Standard DC Coil		
Contact Form	1C	1A	1B
Flow Solder Type	EMR-1□□D-3□F	EMR-1□□DM-5□F	EMR-1□□DB-5□F
Plastic Sealed Type	EMR-1□□D-3□	EMR-1□□DM-5□	EMR-1□□DB-5□

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

EMR-D-3

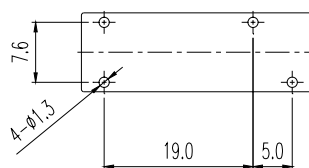
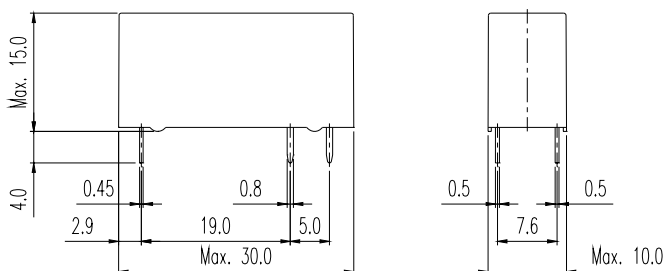


Bottom View



Bottom View

EMR-DM-5/EMR-DB-5



Bottom View



Bottom View