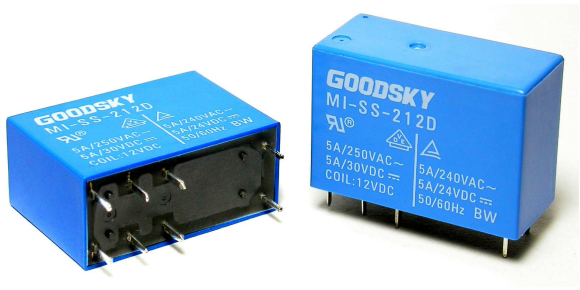
MI-2P



Main Feature

1. Switching capacity 5A with two changeover contacts.
2. Insulation distance of 8mm Min. is designed.
3. Dielectric Strength of 5,000V Min. and Surge Strength 10,000V.
4. 1/8 Horse Power at 120VAC and 1/8 Horse Power at 250VAC are certified by UL.
5. TV-3 at 120VAC rating is approved by UL.
6. Halogen Free series available.

Contact Rating

Load Type	MI-2P (DM/LM)	MI-2P (D/L)
Rated Load (Resistive)	5A 250VAC	5A 250VAC
	5A 30VDC	5A 30VDC
Contact Capacity	TV-3 120VAC	TV-3 120VAC
	1/8HP 120VAC/250VAC	1/8HP 120VAC/250VAC
Rated Carrying Current	5A	5A
Max. Allowable Voltage	AC 240V	AC 240V
	DC 110V	DC 110V
Max. Allowable Current	5A	5A
Max. Allowable Power Force	1,250VA	1,250VA
	150W	150W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	DPST	DPDT

Application

Cooking Appliances, Air Conditioner, Audio Equipment, Domestic Appliances, Controlling Equivalent, etc.

Performance (at Initial Value)

- Contact Resistance ..... 100mΩMax.@1A,6VDC
- Operate Time..... 15mSec. Max. (D Type)
  20mSec. Max. (L Type)
- Release Time ..... 8 mSec. Max.
- Dielectric Strength:
  Between Coil & Contact ..... 5,000VAC 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..... 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching:
  Electrical..... 20 Cycles per Minute.
  Mechanical ..... 300 Cycles per Minute.
- Temperature Range..... -30～70°C
- Humidity Range..... 45～85% RH.
- Coil Temperature Rise..... 45°C Max. (D Type)
  35°C Max. (L Type)
- 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/S^2.
  Error Operation .....100 m/S^2.
- Life Expectancy:
  Mechanical .....10^7 Operations at No Load condition.
  Electrical .....10^5 Operations at Rated Resistive Load.
  $2.5x10^4$ Operations at TV Rated Load.
- Weight.....About 13.8 g.

Accessories & Sockets

- PI-50BE.....See Page 177
- PI-50BE/3.....See Page 177
- PI-50-0 .....See Page 179

Safety Standard & File Number

- UL & C-UL……..E141060
- TÜV……R09552069
- VDE (MI-D/DM/L/LM Type)..40013086
- CQC……02001001376

Coil Specification (at 20°C)

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)
MI-2P D/DM Type	3	240	12.5	Abt. 0.72	80% Maximum	5% Minimum	130%
	5	138.9	36				
	6	120	50				
	9	78.3	115				
	12	60	200				
	15	48	313				
	18	38	470				
	21	34.3	612.5				
	24	29.3	820				
	28	25.7	1,089				
	48	14.5	3,300				
MI-2P L/LM Type	3	176.5	17	Abt. 0.54	80% Maximum	5% Minimum	130%
	5	100	50				
	6	88	68				
	9	58	155				
	12	44.4	270				
	15	36	417				
	18	30	600				
	21	25.7	817				
	24	21.8	1,100				
	28	19.3	1,452				
	48	10.9	4,400				

Ordering Information

MI - SS - 2 12 D M F

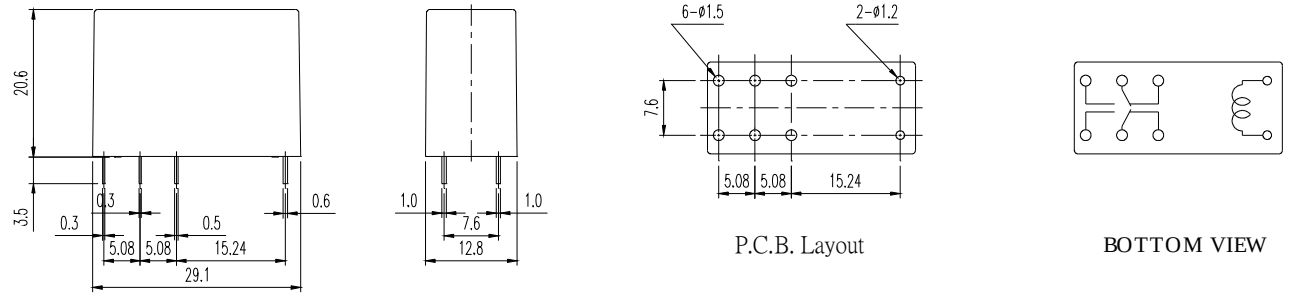
Insulation System:	**Nil:** Standard Class **F:** F Class
Contact Form:	**Nil:** Form C **M:** Form A **B:** Form B
Coil Type:	**D:** Standard DC Coil **L:** High Sensitivity DC Coil
Coil Voltage:	**03:** 3V, **05:** 5V, **06:** 6V, **09:** 9V, **12:** 12V, **15:** 15V, **18:** 18V, **21:** 21V, **24:** 24V, **28:** 28V, **48:** 48V
Number of Pole:	**2:** Two Poles
Type of Sealing:	**SS:** RT II Flux Proofed Relays **SH:** RT III Wash Tight Relays
Type:	**MI**

Classification

Model	MI - 2P					
Coil Sensitivity	Standard DC Coil			High Sensitivity DC Coil		
Contact Form	2C	2A	2B	2C	2A	2B
Flux Proofed Relay	MI-SS-2□□D	MI-SS-2□□DM	MI-SS-2□□DB	MI-SS-2□□L	MI-SS-2□□LM	MI-SS-2□□LB
Wash Tight Relay	MI-SH-2□□D	MI-SH-2□□DM	MI-SH-2□□DB	MI-SH-2□□L	MI-SH-2□□LM	MI-SH-2□□LB

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

MI-2P-SS/SH



P.C.B. Layout

BOTTOM VIEW