



## Main Feature

1. Slim type with 10A rated load.
2. Insulation distance of 8mm is designed.
3. Surge Resistance up to 10,000V.
4. High Sensitivity DC Coil Type of low power consumption available.
5. TV-5 at 120VAC is certified by UL.

## Contact Rating

Load Type	MIT (DM)	MIT (LM)
Rated Load (Resistive)	10A 240VAC	10A 240VAC
	5A 24VDC	5A 24VDC
Contact Capacity	TV-5 120VAC	TV-5 120VAC
	Tungsten (600W)	Tungsten (600W)
Rated Carrying Current	10A	10A
Max. Allowable Voltage	AC 240V	AC 240V
	DC 110V	DC 110V
Max. Allowable Current	10A	10A
Max. Allowable Power Force	2,400VA	2,400VA
	120W	120W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	SPST

## Application

Remote Control TV Receivers, Monitor Displays, Audio Equipment and High Inrush Current...

## 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 ..... -30~85°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<sup>2</sup>.  
Error Operation .....100 m/S<sup>2</sup>.
- Life Expectancy:  
Mechanical .....10<sup>7</sup> Operations at No  
Load condition.  
Electrical .....10<sup>5</sup> Operations at  
Rated Resistive Load.  
2.5x10<sup>4</sup> Operations at  
TV Rated Load.
- Weight.....About 12.2 g.

## Safety Standard & File Number

- UL & C-UL.....E141060
- TÜV.....R9352331
- CQC.....02001001376

### 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)
MIT - DM	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				
	24	29.3	820				
	48	14.5	3,300				
MIT - LM	3	176.5	17	Abt. 0.54	80% Maximum	5% Minimum	130%
	5	106.4	47				
	6	88	68				
	9	58	155				
	12	44.4	270				
	24	21.8	1,100				
	48	11	4,400				

### Ordering Information

MIT - SS - 1 12 D M

**Contact Form:**

**M:** One Form A

**Coil Type:**

**D:** Standard DC Coil

**L:** High Sensitivity DC Coil

**Coil Voltage:** 03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V

**Number of Pole:**

**1:** One Pole

**Type of Sealing:**

**SS:** RT II Flux Proofed Relays

**SH:** RT III Wash Tight Relays

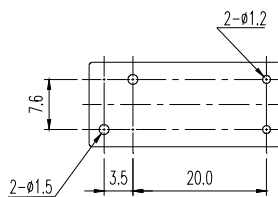
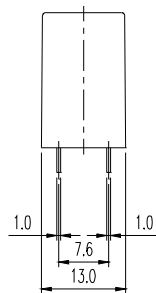
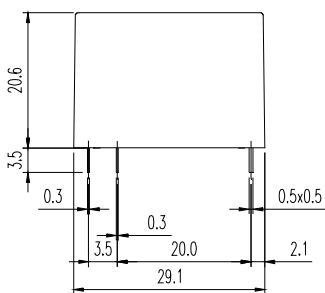
**Type:**

**MIT**

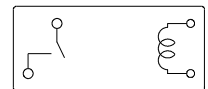
### Classification

Model	MIT	
Coil Sensitivity	Standard DC Coil	High Sensitivity DC Coil
Flux Proofed Relay	MIT-SS-1□□DM	MIT-SS-1□□LM
Wash Tight Relay	MIT-SH-1□□DM	MIT-SH-1□□LM

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



P.C.B. Layout



BOTTOM VIEW