



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.
6. Comply with RoHS and REACH regulations.

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 Application.

PERFORMANCE (AT INITIAL VALUE)

- Contact Resistance 100mΩMax. @1A,6VDC
- Operate Time..... 15mSec. Max. (D Type)
20mSec. Max. (L Type)
- Release Time8 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
& Contact1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at
500VDC.
- Max. On/Off Switching:
 - Electrical6 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:
 - Destruction 10 to 55 to 10 Hz,0.75 mm single
amplitude (1.5mm double amplitude)
 - Malfunction 10 to 55 to 10 Hz,0.75 mm single
amplitude (1.5mm double amplitude)
- Shock:
 - Destruction 1,000 m/S²
 - Malfunction 100 m/S²
- Life Expectancy:
 - Mechanical 10⁷ Operations at No
Load condition
 - Electrical 10⁵ Operations at
Rated Resistive Load
2.5x10⁴ Operations at
TV Rated Load
- Weight About 12.2 g

SAFETY STANDARD & FILE NUMBER

- UL & C-UL E141060
- TÜV R09352331

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
L: High DC
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
SH: RT III Wash Tight
Type: MIT

CLASSIFICATION

| Model | MIT | |
|------------------|--------------|--------------|
| Coil Sensitivity | Standard DC | High DC |
| Flux Proofed | MIT-SS-1□□DM | MIT-SS-1□□LM |
| Wash Tight | 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: $+0.1\text{mm}$)

