



Main Feature

1. Slim type one make Relay with size 24.5 x 10.5 x 24.8 mm. Contact Capacity of 10A is available to comply with wide application.
2. Insulation distance 6mm is designed for insulation voltage 7000V.
3. Double Insulation construction for high reliability.
4. The employment of suitable plastic material to be applied for high temperature and various chemical solutions.
5. Complete protective construction is designed from dust and solder flux. If required, the plastic sealed type is available for washing procedure.
6. TV-5 at 120VAC is certified by UL & C-UL.
7. Halogen Free series is available.

Contact Rating

Load Type	SMIT (DMR/LMR)
Rated Load (Resistive)	10A 250 VAC.
	10A 30VDC
Contact Capacity	TV-5 120VAC
Rated Carrying Current	10A
Max. Allowable Voltage	AC 250V
	DC 110V
Max. Allowable Current	10A
Max. Allowable Power Force	1250VA
	300W
Contact Material	Ag Alloy
Contact Form	SPST

Application

Industrial Control Units, Air Conditioners and Consumer Equipment use...etc.

Performance (at Initial Value)

- Contact Resistance 100mΩ Max.@1A,6VDC
- Operate Time..... 15 mSec. Max.
- Release Time 10 mSec. Max.
- Dielectric Strength:
 - Between Coil & Contact 4,000VAC at 50/60 Hz for one minute.
 - Between Contacts 900VAC at 50/60 Hz for one minute.
- Surge Strength 7,000 V(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..... -40~+70°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 :
 - Mechanical 10⁷ Operations at No Load condition.
 - Electrical 10⁵ Operations at Rated Resistive Load.
 - 2.5x10⁴ Operations at TV Rated Load.
- Weight About 10.2 g.

Safety Standard & Its File Number

SMIT - DMR/LMR

- UL & C-UL E141060
- TÜV R09854437
- CQC.....02001002515

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)
SMIT-DMR	3	176.5	17	Abt. 0.54	80% Maximum	5% Minimum	120%
	5	106.4	47				
	6	88	68				
	9	58	155				
	12	44.4	270				
	24	21.8	1,100				
SMIT-LMR	3	83	36	Abt. 0.25	80% Maximum	5% Minimum	120%
	5	50	100				
	6	42	144				
	9	28	325				
	12	21	580				
	24	10.4	2,300				

Ordering Information

SMIT - SS - 1 12 D M R F

Insulation System:

Nil: Standard Class

F: F Class

Contact Rating:

R: 10A/250VAC

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:

SMIT

Classification

Model	SMIT	
Coil Sensitivity	Standard DC Coil	High Sensitivity DC Coil
Contact Form	DMR	LMR
Flow Solder Type	SMIT-SS-1□□DMR	SMIT-SS-1□□LMR
Plastic Sealed Type	SMIT-SH-1□□DMR	SMIT-SH-1□□LMR

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

