

## Main Feature

1. 5A in small size.
2. Surge Strength is 3,000V.
3. UL approval for 1/2 HP.
4. UL approval for 15A Tungsten (1800W).
5. Halogen Free series available.

## Contact Rating

Load Type	RUT (DM)	RUT (DM8)
Rated Load (Resistive)	5A 30VDC	5A 30VDC
	5A 120VAC	8A 120VAC
	10A 250VAC(TUV)	10A 250VAC
	5 A 30VDC(TUV)	5 A 30VDC
Contact Capacity	TV-5 120VAC	TV-8 120VAC
Rated Carrying Current	10A	15A
Max. Allowable Voltage	AC 250V	AC 250V
	DC 110V	DC 110V
Max. Allowable Current	15A	15A
Max. Allowable Power Force	2,500VA	1,800VA
	300W	300W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	SPST

## Application

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

## Performance (at Initial Value)

- Contact Resistance ..... 100mΩMax. @1A,6VDC
- Operate Time..... 15mSec. Max.
- Release Time ..... 5 mSec. Max.
- Dielectric Strength:
  - Between Coil & Contact ..... 1,500VAC at 50/60 Hz for one minute.
  - Between Contacts ..... 750VAC at 50/60 Hz for one minute.
- Surge Strength ..... 3,000V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance ..... 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching:
  - Electrical..... 6 Cycles per Minute.
  - Mechanical ..... 300 Cycles per Minute.
- Temperature Range..... -30~85°C.
- Humidity Range..... 45~85% RH.
- Coil Temperature Rise..... 30°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/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 11.4 g.

## Safety Standard & File Number

- UL & C-UL.....E141060
- TÜV .....R09352326

## 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)
RUT	3	120	25	Abt. 0.36	75% Maximum	5% Minimum	130%
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1,600				
	48	11	4,500	Abt. 0.51			

## Ordering Information

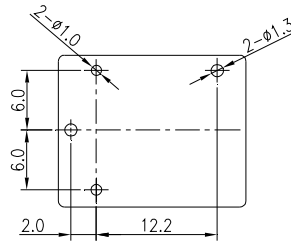
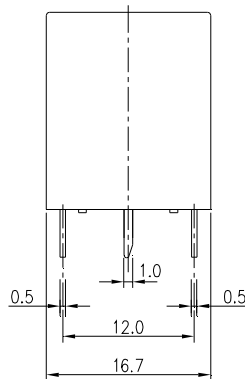
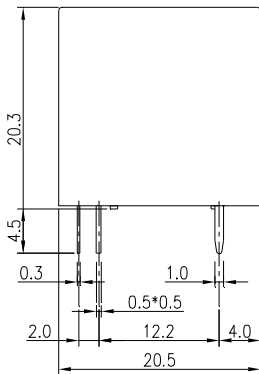
<b>RUT - SS - 1 12 D M 8 F</b>	<b>Insulation System:</b>	<b>Nil:</b> Standard Class <b>F:</b> F Class
	<b>Specification:</b>	<b>Nil:</b> Standard, TV-5, 1800W <b>8:</b> TV-8
	<b>Contact Form:</b>	<b>M:</b> One Form A
	<b>Coil Type:</b>	<b>D:</b> Standard DC Coil
	<b>Coil Voltage:</b>	<b>03:</b> 3V, <b>06:</b> 6V, <b>09:</b> 9V, <b>12:</b> 12V, <b>24:</b> 24V, <b>48:</b> 48V
	<b>Number of Pole:</b>	<b>1:</b> One Pole
	<b>Type of Sealing:</b>	<b>SS:</b> RT II Flux Proofed Relays <b>SH:</b> RT III Wash Tight Relays
	<b>Type:</b>	<b>RUT</b>

## Classification

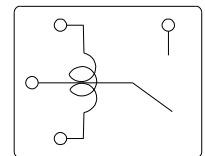
Model	RUT	
Contact Type	DM	DM8
Flux Proofed Relay	RUT-SS-1□□DM	RUT-SS-1□□DM8
Wash Tight Relay	RUT-SH-1□□DM	RUT-SH-1□□DM8

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

## RUT-SS/SH



P.C.B. Layout



Bottom View