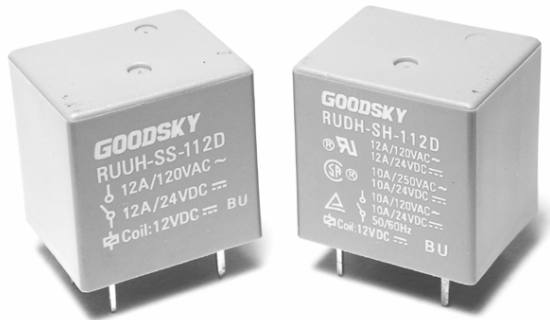


# RUUH/RUDH



## Main Feature

1. RUDH Series Relay covers switching capacity by 12A under UL approval in spite of miniature size to comply with user's selection.
2. RUDH is approved by UL, CSA & TÜV safety standard.
3. The employment of suitable plastic materials is applied under high temperature and various chemical solutions.
4. Complete protective construction is designed form dust and soldering flux. If required, plastic sealed type is available for washing procedure.

## Application

Domestic Appliances, Office Machines, Audio Equipment, Coffee Pot, Control Units, etc.

## Contact Rating

- Nominal Load (Resistive Load  $\cos \phi = 1$ )  
Contact Capacity:  
RUDH Rating..... 10A at 120VAC.  
10A at 24VDC.  
12A at 120VAC.(UL)  
12A at 24VDC.(UL)  
RUUH Rating..... 15A at 120VAC.  
15A at 24VDC.  
Rated Carrying Current ..... RUDH: 10A.  
RUUH: 12A.  
Max. Allowable Current ..... RUDH: 10A.  
RUUH: 12A.  
Max. Allowable Voltage ..... AC 240V, DC 110V.  
Max. Allowable Power Force RUDH: 1400 VA, 300W.  
..... RUUH: 1500VA, 350W.  
Min. Switching Load ..... DC 5V, 10mA.
- Contact Material ..... Ag Alloy.
- Contact Form..... SPST & SPDT.

## Performance (at Initial Value)

- Contact Resistance ..... 100mΩMax.@1A,6VDC
- Operate Time..... 15 mSec. 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 Resistance ..... 3,000V (between Coil  
& Contact 1.2x50μSec.)

- .... Insulation Resistance..... 100 MegaΩ Min. at  
500VDC.
- Max. On/Off Switching :  
Electrical ..... 30 Ops per Minute.  
Mechanical..... 300 Ops per Minute.
- Temperature Range ..... -30~55°C
- Humidity Range ..... 45~85% RH.
- Coil Temperature Rise ..... 35°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> Min.  
Error Operation ..... 100 m/S<sup>2</sup> Min.
- Life Expectancy :  
Mechanical ..... 10<sup>7</sup> Operations at No  
Load condition.  
Electrical ..... 10<sup>5</sup> Operations at  
Rated Resistive Load.
- Weight..... About 12.2 g.

## Safety Standard & Its File Number

- RUDH:  
UL ..... E141060  
CSA ..... LR76598  
TÜV..... R9352326
- RUUH..... NIL.

## 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)
RUUH RUDH	3	150	20	Abt. 0.45	75% Maximum	5% Minimum	130%
	6	75	80				
	9	50	180				
	12	37.5	320				
	24	18.7	1,280	Abt. 0.51	80% Max.		
48	13.7	4,500					

## Ordering Information

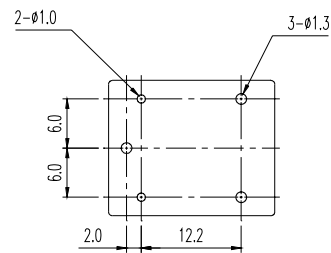
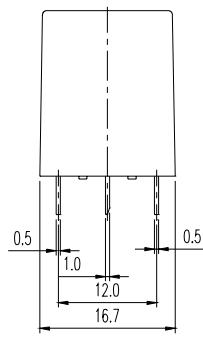
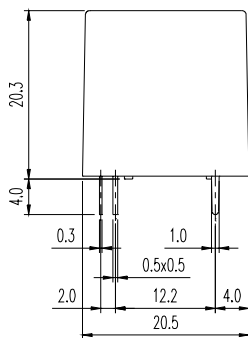
<b>RUDH - SS - 1 12 D M</b>	<b>Contact Form:</b>	<b>Nil:</b> One Form C <b>M:</b> One Form A <b>B:</b> One Form B
	<b>Coil Type:</b>	<b>D:</b> Standard DC Coil
	<b>Coil Voltage:</b>	<b>03:</b> 3V, <b>06:</b> 6V, <b>09:</b> 9V, <b>12:</b> 12V, <b>24:</b> 24V, <b>48:</b> 48V
	<b>Number of Pole:</b>	<b>1:</b> One Pole
	<b>Type of Sealing:</b>	<b>SS:</b> Flow Solder Type <b>SH:</b> Plastic Sealed Type
	<b>Type:</b>	<b>RUDH</b> <b>RUUH</b>

## Classification

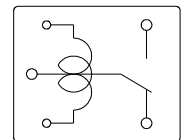
Model	RUDH / RUUH		
	1C	1A	1B
Contact Form			
Flow Solder Type	RUDH / RUUH -SS-1□□D	RUDH / RUUH - SS-1□□DM	RUDH / RUUH -SS-1□□DB
Plastic Sealed Type	RUDH / RUUH-SH-1□□D	RUDH / RUUH - SH-1□□DM	RUDH / RUUH -SH-1□□DB

## Dimension

RUUH/RUUH-SS/SH



BOTTOM VIEW



BOTTOM VIEW

## Reference Data

