



### MAIN FEATURE

1. High switching current up to 15A in small size.
2. UL, CUL & TÜV safety standard approval.
3. UL Class F insulation available.
4. Highly adapt to harsh condition with high temperature and vibration.
5. Halogen Free series available.
6. Comply with RoHS and REACH regulations.

### CONTACT RATING

Item no.	2347591	2347592
Load Type	RUDH-SS-112D	RUDH-SS-124D
Relay type (category)	PCB relay	PCB relay
Certifications	UL&CUL;TUV	UL&CUL;TUV
Additional product specs	SPDT	SPDT
Coil nominal Voltage	12 V DC	24 V DC
Coil voltage rating	0.45 W	0.45 W
Colour	Blue	Blue
Connection (components)	Solder pins	Solder pins
Contact material	Ag-alloy	Ag-alloy
Contact type	1 change-over	1 change-over
Content	1 pc(s)	1 pc(s)
Control mode	monostable, 1 coil	monostable, 1 coil
Durability	1 x 10 <sup>7</sup> switching operations	1 x 10 <sup>7</sup> switching operations
Electrical lifespan	1 x 10 <sup>5</sup> cycles	1 x 10 <sup>5</sup> cycles
Fall time	5 ms	5 ms
Max. pick-up voltage	9 VDC	18 VDC
Max. temperature	70 °C	70 °C
Min. pick-up voltage	0.6 VDC	1.2 VDC
Min. temperature	-30°C	-30°C
Packaging type (components)	Tray	Tray
Product size (height)	20.3mm	20.3mm
Product size (length)	20.5mm	20.5mm
Product size (width)	16.7mm	16.7mm
Product type	PCB relay	PCB relay
Resistance (coil)	320 Ω	1280 Ω
Response time	15 ms	15 ms
RoHS-compliant	Yes	Yes
Switching capacity (max.)	2500VA 288 W	2500VA 288 W
Switching current (max.)	12 A	12 A
Switching voltage (max.)	250 V AC 110 V DC	250 V AC 110 V DC
Weight	12.2 g	12.2 g

### APPLICATION

Domestic Appliances, Office Machines, Audio Equipment, Coffeepot, Control Units, etc.

### PERFORMANCE (AT INITIAL VALUE)

- Contact Resistance ..... 100mΩMax.@1A,6VDC
- Operate Time..... 15mSec. Max.
- Release Time ..... 5 mSec. Max.
- Dielectric Strength:

- 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/S<sup>2</sup>
  - Malfunction ..... 100 m/S<sup>2</sup>
- Life Expectancy:
  - Mechanical ..... 10<sup>7</sup> Operations at No Load condition
  - 10<sup>5</sup> Operations at Rated Resistive Load

- Between Coil & Contact..... 1,500VAC at 50/60 Hz for one minute
- Between Contacts ..... 750VAC at 50/60 Hz for one minute
- 2,000VAC (Special spec)
- 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~+70°C
- Humidity Range ..... 45~85% RH.
- Coil Temperature Rise ..... 35°C Max.

Electrical .....

- Weight ..... About 12.2 g

**SAFETY STANDARD & FILE NUMBER**

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

- RUUH
  - NIL

**COIL SPECIFICATION (AT 20°C)**

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
RUDH	12	37.5	320	Abt. 0.45	75% Maximum	5% Minimum	130%
	24	18.7	1,280				

**ORDERING INFORMATION**

RUDH - SS - 1 12 D

**Insulation System:** Nil: Standard Class

**Contact Form:** Nil: One Form C

**Coil Type:** D: Standard DC

**Coil Voltage:** 12: 12V, 24: 24V

**Number of Pole:** 1: One Pole

**Type of Sealing:** SS: RT II Flux Proofed

**Type:** RUDH

**DIMENSION ( ≤ 5mm ± 0.2mm, > 5mm ± 0.3mm, the tolerance of PCB thru hole: +0.1mm)**

