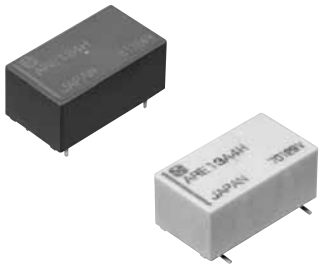
**2.6 GHz capable, 10 W carrying power (at 2.6 GHz), 50Ω/75Ω impedance and 1 Form C relays**

# RE RELAYS (ARE)



**RoHS compliant**

## FEATURES

- **Excellent high frequency characteristics (to 2.6GHz)**
- **Surface-mount type also available**
- **Compact and slim size**
  Size: 20.2(L) × 11.2(W) × 8.9(H)* mm
  .795(L) × .441(W) × .350(H) inch
  *The height of Surface-mount type is 9.6 mm .378 inch size.

## TYPICAL APPLICATIONS

**1. Broadcasting and video markets.**
- Digital broadcasting equipment
- STB/tuner

**2. Communications market**
- Antennae switching
- All types of wireless devices

If you consider using applications with low level loads or with high frequency switching, please consult us.

## ORDERING INFORMATION

**ARE** [1] [ ] [ ] [ ] [ ] [ ]

RE relays

Contact arrangement
1: 1 Form C

Operating function
0: Single side stable type (Impedance 50Ω)
3: Single side stable type (Impedance 75Ω)

Terminal shape
Nil: Standard PC board terminal
A: Surface-mount terminal

Coil voltage (DC)
03: 3V, 4H: 4.5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V
(H=0.5)

Packing style
Nil: Carton packing (Standard PC board terminal only)
Tube packing (Surface-mount terminal only)
Z: Tape and reel packing (picked from 14 pin side)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# TYPES

### 1. Standard PC board terminal

| Nominal coil voltage | Part No. | |
|---|---|---|
| | Single side stable type (Impedance 50Ω) | Single side stable type (Impedance 75Ω) |
| 3 V DC | ARE1003 | ARE1303 |
| 4.5 V DC | ARE104H | ARE134H |
| 6 V DC | ARE1006 | ARE1306 |
| 9 V DC | ARE1009 | ARE1309 |
| 12 V DC | ARE1012 | ARE1312 |
| 24 V DC | ARE1024 | ARE1324 |

Standard packing: 50 pcs. in an inner package; 500 pcs. in an outer package

### 2. Surface-mount terminal

1) Tube package

| Nominal coil voltage | Part No. | |
|---|---|---|
| | Single side stable type (Impedance 50Ω) | Single side stable type (Impedance 75Ω) |
| 3 V DC | ARE10A03 | ARE13A03 |
| 4.5 V DC | ARE10A4H | ARE13A4H |
| 6 V DC | ARE10A06 | ARE13A06 |
| 9 V DC | ARE10A09 | ARE13A09 |
| 12 V DC | ARE10A12 | ARE13A12 |
| 24 V DC | ARE10A24 | ARE13A24 |

Standard packing: 25 pcs. in an inner package (tube); 200 pcs. in an outer package

2) Tape and reel package

| Nominal coil voltage | Part No. | |
|---|---|---|
| | Single side stable type (Impedance 50Ω) | Single side stable type (Impedance 75Ω) |
| 3 V DC | ARE10A03Z | ARE13A03Z |
| 4.5 V DC | ARE10A4HZ | ARE13A4HZ |
| 6 V DC | ARE10A06Z | ARE13A06Z |
| 9 V DC | ARE10A09Z | ARE13A09Z |
| 12 V DC | ARE10A12Z | ARE13A12Z |
| 24 V DC | ARE10A24Z | ARE13A24Z |

Standard packing: 400 pcs. in an inner package (tape and reel); 800 pcs. in an outer package

# RATING

### 1. Coil data

| Nominal coil voltage | Pick-up voltage (at 20°C 68°F) | Drop-out voltage (at 20°C 68°F) | Nominal operating current [±10%] (at 20°C 68°F) | Coil resistance [±10%] (at 20°C 68°F) | Nominal operating power | Max. applied voltage (at 60°C 140°F) |
|---|---|---|---|---|---|---|
| 3 V DC | 75%V or less of nominal voltage (Initial) | 10%V or more of nominal voltage (Initial) | 66.7 mA | 45 Ω | 200 mW | 110%V of nominal voltage |
| 4.5 V DC | | | 44.4 mA | 101 Ω | | |
| 6 V DC | | | 33.3 mA | 180 Ω | | |
| 9 V DC | | | 22.2 mA | 405 Ω | | |
| 12 V DC | | | 16.7 mA | 720 Ω | | |
| 24 V DC | | | 8.3 mA | 2,880 Ω | | |


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