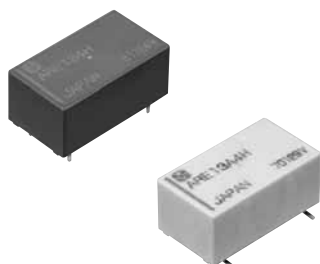


**2.6 GHz capable, 10 W  
carrying power (at 2.6 GHz),  
50Ω/75Ω impedance and  
1 Form C relays**

## 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<br>(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)            |     |   |  |  |  |  |  |

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<br>(at 20°C 68°F)            | Drop-out voltage<br>(at 20°C 68°F)           | Nominal operating current<br>[±10%] (at 20°C 68°F) | Coil resistance<br>[±10%] (at 20°C 68°F) | Nominal operating power | Max. applied voltage<br>(at 60°C 140°F) |
|----------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------------|------------------------------------------|-------------------------|-----------------------------------------|
| 3 V DC               | 75%V or less of nominal voltage<br>(Initial) | 10%V or more of nominal voltage<br>(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                                  |                         |                                         |