# AMRT

**Insulated Carbon Film Resistors for Audio Equipment**

## Features

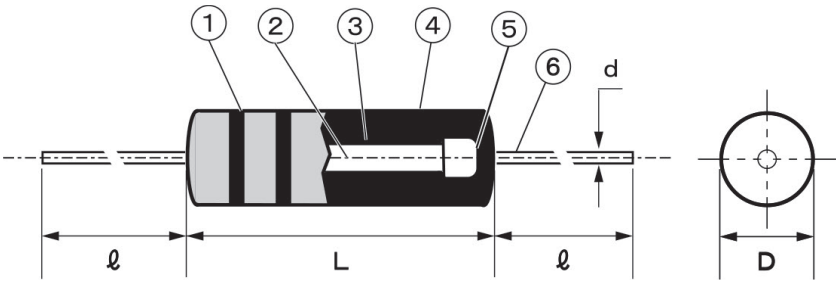
- **New structure effectively controls vibration generated by inner materials**
- **Made of all non-magnetic substances to eliminate magnetic distortion characteristics**
- **High quality sound with excellent heat radiation and outstanding moisture resistance**

## Type Designation

AMRT ① 1/2W ② 100Ω ③ J ④ T26 ⑤

| | | | |
|---|---|---|---|
| ① | Product name | AMRT | |
| ② | Power rating | 1/4W, 1/2W, 2W | |
| ③ | Nominal resistance | E-24 | |
| ④ | Resistance tolerance | J | ±5% |
| | | G | ±2% |
| | | F | ±1% |
| ⑤ | Taping & Forming | Blank | Straight, Bulk |
| | | L | Forming with kink |
| | | M | Forming without kink |
| | | T26 | Axial taping 26mm (1/4W & 1/2W) |
| | | T52 | Axial taping 52mm (1/2W only) |
| | | U | Radial taping |

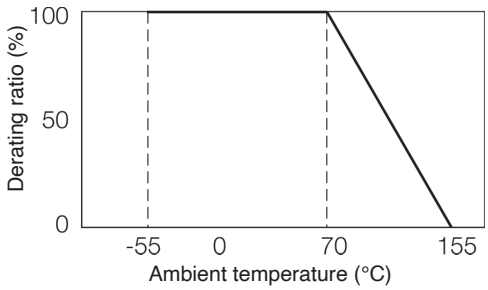
## Specifications




| | Parts name | Description |
|---|---|---|
| ① | Color code | Epoxy resin |
| ② | Ceramic base | Porcelain rod (alumina) |
| ③ | Resistor film | Carbon film |
| ④ | Coating | Epoxy resin / Color: Blue |
| ⑤ | Cap | Tin plated brass |
| ⑥ | Lead | Tin plated copper wire (OFC) |

(values for straight lead type)

## Derating Curve




## Dimensions

(mm)

| Type | L | D | ℓ | d |
|---|---|---|---|---|
| AMRT 1/4 | 6.6±1.0 | 2.4±0.4 | 27min | 0.58±0.1 |
| AMRT 1/2 | 8.8±1.0 | 2.8±0.4 | 25min | 0.68±0.1 |
| AMRT 2 | 11.8±1.0 | 4.8±0.5 | 34min | 0.78±0.1 |

(values for straight lead type)

## Rating

| Type | Power Rating (W) | Max.Working Voltage (V) | Max.Overload Voltage (V) | Dielectric Withstanding Voltage (V) | Resistance Range (V) | Rated Ambient Temp. (°C) | Operating Temp. Range (°C) |
|---|---|---|---|---|---|---|---|
| AMRT 1/4W | 0.25 | 300 | 600 | 500 | 10～1.5M | +70°C | -55～+155°C |
| AMRT 1/2W | 0.5 | 350 | 700 | 700 | | | |
| AMRT 2W | 2.0 | 500 | 1000 | 1000 | | | |

Rated voltage shall be calculated by the formula of $\sqrt{(\text{Power rating}) \times (\text{Resistance value})}$, or Max. working voltage in this table, whichever is lower.

The maximum overload voltage shall be smaller one of either 2.5 times value of the rated voltage or the maximum overload voltage in this table.

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