

### Features

- Flame retardant insulation coat.
- Non-magnetic substances are adopted to reduce magnetic distortion for higher sound quality.
- Covers wide range of resistance values by selecting suitable types of film for the resistance ranges
- High reliability power type resistor (0.5–5W)
- Stable performance against heat and pulse voltage.
- RoHS compliant

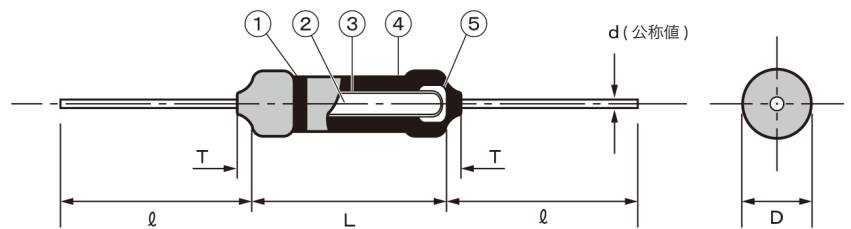
### Type Designation

AMRA 2 E S 103 G T26  
 ① ② ③ ④ ⑤ ⑥ ⑦

①	Product name	AMRA
②	Power rating	1/2W, 1W, 2W, 5W
③	Flame retardant insulation coating	
④	S: Small body size	
⑤	Nominal resistance (Ω)	3 digits, E-24
⑥	Resistnace tolerance	J ±5%
		G ±2%
		F ±1%
⑦	Taping /Forming*	Blank Straight leads, bulk
		L Forming with kink
		M Forming without kink
		T Axial taping: T26/26mm, T52/52mm
		U Radial, bulk
	UT Radial, taping	

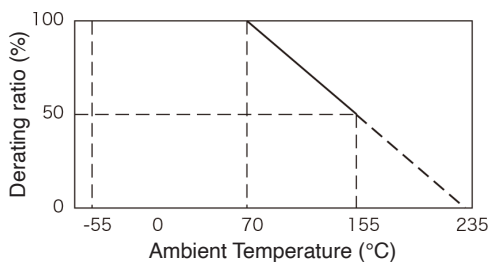
\*Please consult us for the mixture of taping/forming type.

### Specifications



	Parts name	Description	Remarks
①	Color code	Heat-proof epoxy resin	
②	Ceramic base	Alumina	Porcelain rod
③	Resistor film	Phosphorus nickel film, metal oxide film, or carbon film	Different type of film is used depending on resistnace range (ref.below)
④	Coating	Flame retardant coating. (Equivalent to UL94 V-0) Color: Grey	
⑤	Terminals	Cap: Brass	Tin plated
		Lead : Soft copper wire (JIS C 3102)	Tin plated lead is welded to cap.

### Derating Curve



### Dimensions

Type	L	D	ℓ	d	T
1/2FS	6.3±0.5	2.5±0.4	≧ 20	0.6	≧ 2.0
1FS	9.0±1.0	3.1±0.8	≧ 20	0.7	≧ 2.0
2FS	11.0±1.0	4.0±0.8	≧ 20	0.8	≧ 2.0
5FS	24.5±1.0	8.5±1.0	≧ 20	0.8	≧ 2.0

### Rating

Type	Power rating (W)	Max. working voltage(V)	Max. overload voltage (V)	Max. short time overlaod voltage (V)	Withstand voltage (V)	Resistance range (Ω)			Rated ambient temp.(°C)	Operating temp. range (°C)
						Phosphorus nickel film	Metal oxide film	Carbon film		
1/2FS	0.5	250	400	500	250	0.1~9.1	10~100K	110K~4.7M	+70	-55~ +155
1FS	1	350	600	750	350		10~100K	110K~4.7M		
2FS	2	350	600	750	350		10~100K	110K~3.3M		
5FS	5	500	800	1500	500		10~150K	160K~3.3M		

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.

• Specifications are subject to change without prior notice.  
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