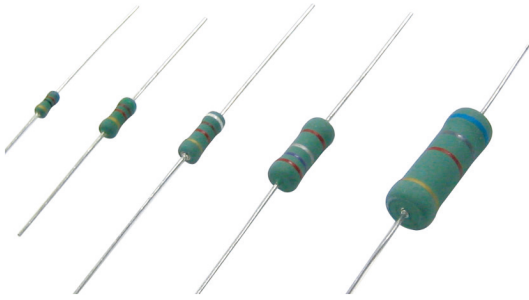


AMRM

Flame retardant fixed film resistors



Features

- Flame retardant insulation coat.
- 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.
- Various types of formings are available.
- RoHS compliant

Type Designation

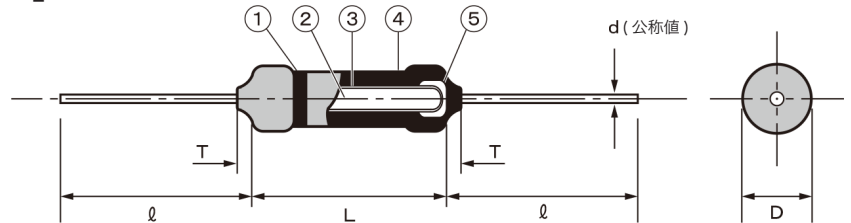
AMRM 2 F S 103 J L

① ②③④ ⑤ ⑥⑦

①	Product name	AMRM
②	Power rating	1/2W, 1W, 2W, 3W, 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 Bulk
		L Forming with kink
		M Forming without kink
		T Axial taping: T26/26mm, T52/52mm
		U Radial, bulk
		UT Radial, taping

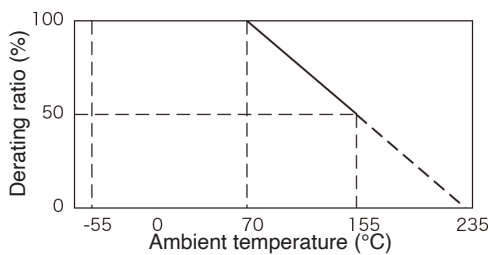
*Please consult us for the mixture of taping/forming type.

Specifications



	Parts name	Description	
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
④	Coating	Flame retardant coating. (Equivalent to UL94 V-0) Color: Grey	
⑤	Terminal	Cap: Fe	Tin plated
		Lead: Soft copper wire (JIS C 3102)	Tin plated lead is welded to cap.

Derating Curve



Dimensions

(mm)

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
3FS	15.0±1.0	5.5±0.8	≥ 20	0.8	≤ 2.0
5FS	24.5±1.0	8.5±1.0	≥ 20	0.8	≤ 4.0

Rating

Type	Power rating (W)	Max. Working voltage (W)	Max. Overload voltage (V)	Max. short time overload 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		
3FS	3	350	600	750	350		10~120K	130K~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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