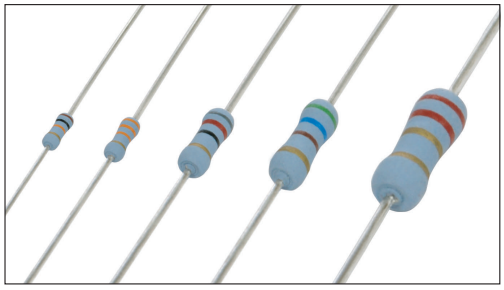
AMRA series

Fixed Metal Oxide Film Resistors for Audio Equipments



Features

- Non-magnetic substances are used to reduce magnetic distortion and to obtain higher sound quality than general metal oxide film resistors.
- Resistor film is made of oxide metal such as tin oxide and shows anti-combustion characteristics.
- Flame retardant coating
- RoHS compliant

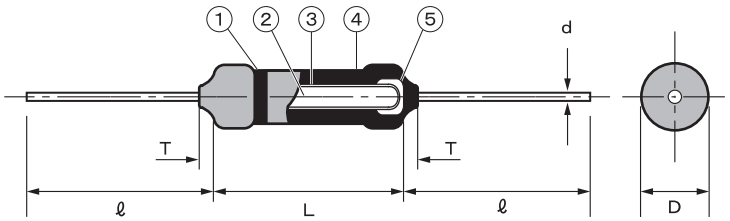
Type Designation

AMRA 2 F S 103 G T26

① ② ③ ④ ⑤ ⑥ ⑦

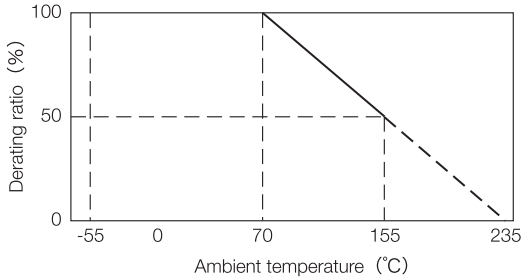
①	Product Code	AMRA	
②	Power Rating	1/2	1/2W
		1	1W
		2	2W
		5	5W
③	Flame retardant insulation coating		
④	Small body size		
⑤	Nominal Resistance	3 Figure Mark E-24 Series	
⑥	Resistance Tolerance	J	±5%
		G	±2%
		F	±1%
⑦	Taping & Forming	Blank	Straight, Bulk
		L	Forming with Kink
		M	Forming without Kink
		T26	Axial Taping 26mm
		T52	Axial Taping 52mm
		U	Radial Taping

Structures and Materials



	Parts Name	Material	Remarks
①	Color code	Heat-proof epoxy resin	
②	Ceramic base	Porcelain rod (alumina)	
③	Resistor film	Tin oxide film	
④	Coating	Non-flammable insulation silicon paint / Color: gray UL approved (File No. E73179)	
⑤	Terminal	Cap：Brass	Tin plated
		Leed：Soft copper wire (JIS C 3102)	Tin plated

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>
5FS	24.5±1.0	8.5±1.0	20<	0.8	4.0>

Rating

Type	Characteristics	Power Rating	Max Working Voltage	Max Overload Voltage	Max intermittent Overload Voltage	Dielectric with-standing Voltage	Resistance Range	Rated Ambient Temp	Operating Temp Range
		(W)	(V)	(V)	(V)	(V)	(Ω)	(℃)	(℃)
1/2F	Small body size	0.5	250	400	500	250	1 ～ 27K	+70℃	−55～+155℃
1F		1	350	600	750	350	1 ～ 68K		
2F		2	350	600	750	350	1 ～ 100K		
5F		5	500	800	1500	500	1 ～ 150K		

The rated voltage shall be calculated by square root (E×R)
When this value exceeds a maximum working voltage given in table, this maximum working voltage shall taken as the rated voltage.
E ; rated voltage (V)　P ; rated dissipation (W)　R ; nominal resistance value (Ω)

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2010,08

• Specifications given here in may be changed at any time without prior notice.