Coated Power Wirewound Fusing Resistors Flameproof

ELECTRICAL SPECIFICATIONS

Type			RF04101W	RF05122W	RF06133W	RF07185W
Nominal Power rating	P_{40}	[W]	1,1	2,3	3,4	5,0
	P_{70}		1,0	2,0	3,0	4,4
Resistance range		[Ω] Min	0R47	0R47	0R47	0R56
		Max	62R	150R	240R	330R
			(Other values upon request)			
E-Series (preferred)			E12 (Other upon request)			
Tolerances		± [%]	1 ; 5			
Temperature coefficient		[10^{-6}*K^{-1}]	350			
Temperature range		[°C]	-40 … + 155			
Thermal resistance		[KW^{-1}]	85	43	29	23
Dielectric withstanding voltage *IEC115-1 clause 4.7 (1[min])*		[V]	300			
Insulation resistance *IEC115-1 clause 4.6*		[Ω]	> 100MΩ			
Max. working voltage		$[V]_{RMS}$	$\sqrt{P_{70} * R}$			
Flameproof multi-layer coating meets			UL-94V-0			
Flameproof feature meets overload test			UL-1412			

PERFORMANCE DATA

Derating linear	[°C]	70…275 (0W)
Climatic category		55/155/56
Endurance *IEC60115-1 clause 4.25* (P_{70}, @ 70[°C], 1000[h]) 1,5h ON;0,5h OFF	± [%]	5,0
Damp heat, steady state *IEC115-1clause 4.24* *($40^{\pm 2}$ [°C], 93[% r.h.], 56[d])*	± [%]	5,0
Short Time Overload *IEC60115-1 clause 4.13* *($U = \sqrt{10 \times P_{70} \times R}$, 5 [s])*	± [%]	2,0
Robustness of Terminations *IEC115-1 clause 4.16* *(≥2,5[Kg], 10[s])*	[N]	24,5
Resistance to soldering heat *IEC115-1 clause 4.18* *(260[°C], 10[s])*	± [%]	1,0
Solderability *IEC 60068-2-20* *($235^{\pm 5}$[°C] $3^{\pm 0,5}$[s])*		Solder bath method (min. 95[%] coverage)
Resistance to solvents of Marking *IEC60115-1 clause 4.30* *($5^{\pm 0,5}$[min])*		No deterioration of coating and marking
Marking *IEC60062*		Color code (5th band (blue) for failsafe version)

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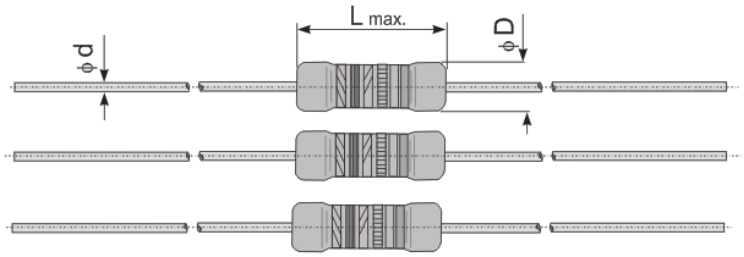
DIMENSIONS [mm]



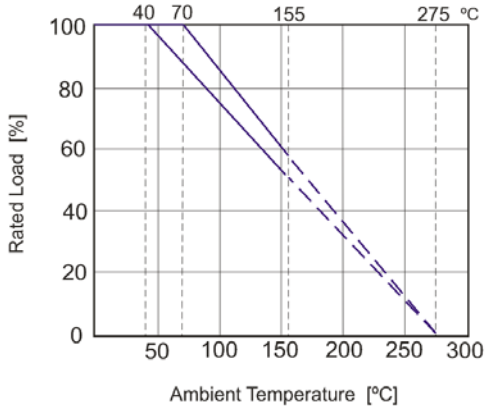
Type	L MAX	∅ D MAX	∅ d ±0,05
RF0410	10,0	3,9	0,55
RF0512	12,5	5,0	0,80
RF0613	13,0	5,5	0,80
RF0718	18,5	7,0	0,80

FUSING PERFORMANCE

Fusing Characteristics:		
Resistance range	Times of rated power	Fusing Time max.[s]
≤ 2.0 Ω	36	60
>2.0 Ω	25	60

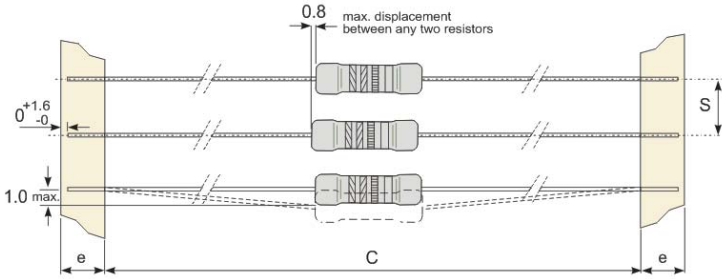
Fusing residual resistive value at least 100 times rated resistance

DERATING CURVE



PACKAGING (Dimensions in [mm])

The standard packaging for RF in axial type is taped, dimensions below.



Type	Packaging	Pieces	Pack code	C	S	e
RF0410	Taped / Ammo pack	1.000	T	52,4	5	6
RF0512		1.000		52,4	5	6
RF0613		1.000		73,0	10	6
RF0718		250		73,0	10	6

ORDERING EXAMPLE

RF05122W	5	T	47R
Type	*Tolerance*	*Pack-Code*	*R-Value*