

RNF Fusible Metal Film Resistor

- SUPERIOR QUALITY FUSIBLE RESISTORS WHICH ARE FLAMEPROOF DURING OPERATION
- RESISTORS FUSE IN LESS THAN 30 SECONDS AT 16 TIMES RATED POWER
- RESISTORS ARE MARKED WITH 4 COLOUR BAND CODE INDICATING THE VALUE AND A 5TH BLACK BAND DENOTING A FUSIBLE RESISTOR

POWER RATING

1/4W ~ 2W

DIMENSIONS



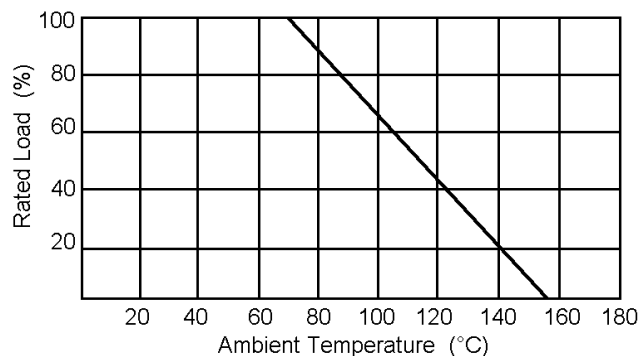
STYLE	DIMENSIONS (mm)			
	L	D	H	d
RNF14	6.3 ± 0.5	2.3 ± 0.5	28 ± 2.0	0.55 ± 0.03
RNF12	9.0 ± 0.5	3.2 ± 0.5	26 ± 2.0	0.65 ± 0.03
RNF1	11.5 ± 1.0	4.5 ± 0.5	35 ± 2.0	0.78 ± 0.03
RNF2	15.5 ± 1.0	5.0 ± 0.5	32 ± 23.0	0.78 ± 0.03

ELECTRICAL CHARACTERISTICS

Power Rating at 70°C	1/4 w	1/2 w	1 w	2w
STYLE	RNF14	RNF12	RNF1	RNF2
Limiting Element Voltage	200v	250v	300v	350v
Temperature Coefficient	± 350ppm/°C			
Short Time Overload	± (2%+0.05Ω)			
Operating Temperature	-40°C ~ +155°C			
Resistance Tolerance	5%			
Value Range - IEC E24*	4Ω7 ~ 1KΩ	1Ω ~ 1KΩ		

*Resistance Range for standard resistance – below or over this resistance on request.

POWER DERATING CURVE



See Page 24 for additional specifications and part number information

RNFM Mini Fusible Metal Film Resistor

- SUPERIOR QUALITY FUSIBLE RESISTORS WHICH ARE FLAMEPROOF DURING OPERATION
- RESISTORS FUSE IN LESS THAN 30 SECONDS AT 16 TIMES RATED POWER
- RESISTORS ARE MARKED WITH 4 COLOUR BAND CODE INDICATING THE VALUE AND A 5TH BLACK BAND DENOTING A FUSIBLE RESISTOR

POWER RATING

1/2W ~ 3W

DIMENSIONS



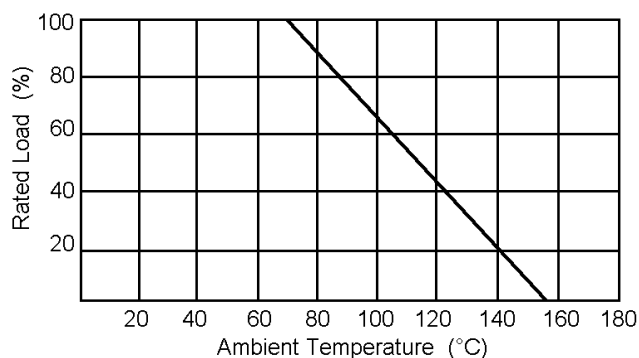
STYLE	DIMENSIONS (mm)			
	L	D	H	d
RNF12	6.3 ± 0.5	2.3 ± 0.5	28 ± 2.0	0.55 ± 0.03
RNF1	9.0 ± 0.5	3.2 ± 0.5	26 ± 2.0	0.65 ± 0.03
RNF2	11.5 ± 1.0	4.5 ± 0.5	35 ± 2.0	0.78 ± 0.03
RNF3	15.5 ± 1.0	5.0 ± 0.5	32 ± 23.0	0.78 ± 0.03

ELECTRICAL CHARACTERISTICS

Power Rating at 70°C	1/2 w	1 w	2 w	3w
STYLE	RNFM12	RNFM1	RNFM2	RNFM3
Limiting Element Voltage	200v	250v	300v	350v
Temperature Coefficient	± 350ppm/°C			
Short Time Overload	± (2%+0.05Ω)			
Operating Temperature	-40°C ~ +155°C			
Resistance Tolerance	5%			
Value Range - IEC E24*	4Ω7 ~ 1KΩ		1Ω ~ 1KΩ	

*Resistance Range for standard resistance – below or over this resistance on request.

POWER DERATING CURVE



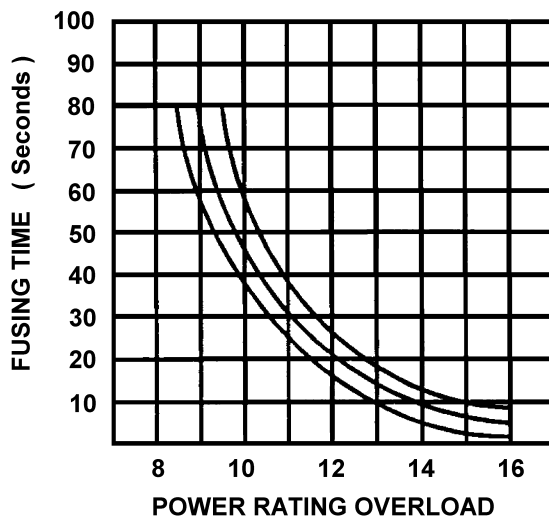
See Page 24 for additional specifications and part number information

ENVIRONMENTAL CHARACTERISTICS

DESCRIPTION	Specification Limits
Resistance Value	Within specified tolerance
Temperature Coefficient	T.C.R. Within $\pm 350\text{ppm}/^\circ\text{C}$
Short-time Overload	Within $\pm (2\% + 0.05\Omega)$
Dielectric Withstanding Voltage	$\geq 500\text{v}$
Terminal Strength	Tensile: $\geq 2.5\text{kg}$
Solderability	95% of the dipping surface must be covered by new solder
Load Life	Within $\pm (5\% + 0.05\Omega)$ No major visible damage, Marking legible
Fusible Characteristics	30 seconds at 16 times rated power.

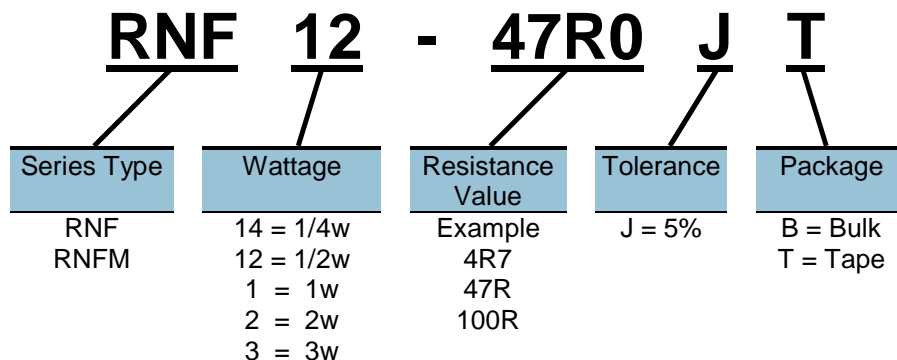
$$\text{Rated continuous Working Voltage (RCWV)} = \sqrt{\text{Power Rating} \times \text{Resistance Value}}$$

FUSING CHARACTERISTICS



Type		Magnification of Pwr Rating				Fuse Time
RNF	NRNM	x30	x25	x16	x12	
1/4w	1/2w	$\leq 0\Omega 47$	$0\Omega 47 - 0\Omega 91$	$1\Omega - 1\text{K}$		60 sec MAX
1/2w	1w	$\leq 0\Omega 33$	$0\Omega 33 - 1\Omega$	$1\Omega - 1\text{K}$		
1w	2w	$\leq 0\Omega 33$	$0\Omega 33 - 1\Omega$	$1\Omega - 1\text{K}$		
2w	3w	$\leq 0\Omega 33$	$0\Omega 33 - 1\Omega$	$1\Omega - 1\text{K}$		

PART NUMBER



STANDARD PACKAGING

BULK	1/4w ~ 3w	200 pieces	TAPE	1/4w	5,000 pieces	mini 1/2w	5,000 pieces
				1/2w	3,000 pieces	mini 1w	3,000 pieces
				1w	2,000 pieces	mini 2w	2,000 pieces
				2w	1,000 pieces	mini 3w	1,000 pieces