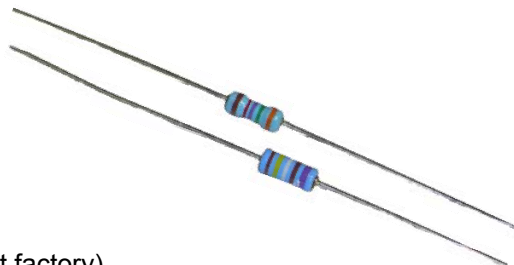
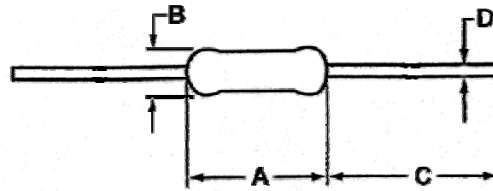


- Features:
- Precision metal film
 - Superior electrical, TCR performances
 - Flame-retardant coatings are standard
 - Panasert available (selected sizes: contact factory)
 - RNMF (mini) an ideal choice where size constraints apply
 - RNS (ultra-mini) for tight size constraints
 - RNF 5% replaces MP series
 - RoHS compliant / lead-free
 - Lower or higher resistance values may be possible (contact factory)



Electrical Specifications											
Type / Code	Mil Ref	Power Rating (Watts) @ 70°C	Maximum Working Voltage (Vrms) (1)	Maximum Overload Voltage (Vrms)	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance					
						0.1%	0.25%	0.5%	1%	2%	5%
RNF 1/8	RN 50	0.125W	200V	400V	±25 ppm/°C ±50 ppm/°C ±100 ppm/°C	100 - 100K	100 - 100K	49.9 - 499K 10 - 499K 10 - 511K	49.9 - 499K 10 - 1M 1 - 22M	- - 1 - 22M	- - 1 - 22M
RNF 1/4	RN 55	0.25W	250V	500V	±10 ppm/°C ±25 ppm/°C ±50 ppm/°C ±100 ppm/°C	100 - 100K 10 - 2.2M 10 - 2.2M 10 - 2.2M	- 10 - 2.2M 10 - 2.2M 10 - 2.2M	- 10 - 2.2M 10 - 2.2M 10 - 2.2M	- 10 - 1M 10 - 1M 10 - 1M	- - - 1 - 10M	- - - 1 - 10M
RNF 1/2	RN 60	0.5W	350V	700V	±25 ppm/°C ±50 ppm/°C ±100 ppm/°C	100 - 100K	100 - 100K	49.9 - 499K 10 - 511K 10 - 511K	49.9 - 499K 10 - 1M 1 - 5.1M	- - 1 - 10M	- - 1 - 10M
RNF 1	RN 65	1W	350V	700V	±25 ppm/°C ±50 ppm/°C ±100 ppm/°C	- - -	- - -	10 - 511K	10 - 1M	- - -	- - -
RNF 2	-	2W	350V	800V	±25 ppm/°C ±50 ppm/°C ±100 ppm/°C	- - -	- - -	10 - 511K	10 - 1M	- - -	- - 10 - 1M
RNMF 1/4	-	0.25W	200V	400V	±25 ppm/°C ±50 ppm/°C ±100 ppm/°C	100 - 100K	100 - 100K	49.9 - 499K 10 - 511K 10 - 511K	49.9 - 499K 10 - 1M 10 - 1M	- - 1 - 1M	- - 1 - 1M
RNMF 1/2	RL 07	0.53	350V	600V	±25 ppm/°C ±50 ppm/°C ±100 ppm/°C	100 - 100K 49.9 - 1M 49.9 - 1M	100 - 100K 49.9 - 1M 49.9 - 1M	49.9 - 499K 10 - 1M 10 - 1M	49.9 - 499K 1 - 1M 1 - 1M	- - 1 - 1M	- - 1 - 1M
RNS 1/2	-	0.5W	200V	400V	±50 ppm/°C ±100 ppm/°C	- -	- -	10 - 1M	10 - 1M	- -	- -
RNS 1	-	1W	350V	600V	±25 ppm/°C ±50 ppm/°C ±100 ppm/°C	- - -	- - -	100 - 511K	10 - 1M	- - -	- - -
RNS 2	-	2W	350V	700V	±25 ppm/°C ±50 ppm/°C ±100 ppm/°C	- - -	- - -	100 - 511K	10 - 1M	- - -	- - -

(1) Lesser of $\sqrt{P/R}$ or maximum working voltage.



Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Units
RNF 1/8	0.13 ± 0.012	0.070 ± 0.012	1.10 ± 0.12	0.018 ± 0.003	inches
	3.30 ± 0.30	1.80 ± 0.30	28.00 ± 3.00	0.45 ± 0.07	mm
RNF 1/4	0.25 ± 0.026	0.093 ± 0.010	1.10 ± 0.12	0.022 ± 0.003	inches
	6.35 ± 0.65	2.35 ± 0.25	28.00 ± 3.00	0.56 ± 0.08	mm
RNF 1/2	0.34 ± 0.030	0.108 ± 0.039	1.10 ± 0.197	0.26 ± 0.004	inches
	8.75 ± 0.75	2.75 ± 1.00	28.00 ± 5.00	0.65 ± 0.10	mm
RNF 1	0.433 ± 0.04	0.177 ± 0.02	1.18 ± 0.12	0.030 ± 0.002	inches
	11.00 ± 1.00	4.50 ± 0.50	30.00 ± 3.00	0.75 ± 0.05	mm
RNF 2	0.59 ± 0.04	0.2 ± 0.02	1.18 ± 0.12	0.027 ± 0.004	inches
	15.00 ± 1.00	5.00 ± 0.50	30.00 ± 3.00	0.70 ± 0.10	mm
RNMF 1/4	0.13 ± 0.011	0.070 ± 0.003	1.10 ± 0.12	0.017 ± 0.002	inches
	3.30 ± 0.30	1.78 ± 0.08	28.00 ± 3.00	0.44 ± 0.05	mm
RNMF 1/2	0.25 ± 0.026	0.093 ± 0.010	1.10 ± 0.12	0.022 ± 0.003	inches
	6.35 ± 0.65	2.35 ± 0.25	28.00 ± 3.00	0.56 ± 0.08	mm
RNS 1/2	0.13 ± 0.01	0.07 ± 0.01	1.10 ± 0.08	0.017 ± 0.002	inches
	3.40 ± 0.40	1.80 ± 0.30	28.00 ± 2.00	0.43 ± 0.05	mm
RNS 1	0.26 ± 0.02	0.09 ± 0.006	1.10 ± 0.08	0.022 ± 0.002	inches
	6.50 ± 0.50	2.30 ± 0.20	28.00 ± 2.00	0.56 ± 0.05	mm
RNS 2	0.35 ± 0.02	0.14 ± 0.02	1.10 ± 0.08	0.31 ± 0.004	inches
	9.00 ± 0.50	3.50 ± 0.50	28.00 ± 2.00	0.80 ± 0.10	mm

Performance Characteristics		
Test	Standard / Method	Requirement
Biased Humidity	MIL-STD 202, Method 103	± 1.5%
Resistance to Solder Heat	MIL-STD 202, Method 210	± 0.5%
Insulation Resistance	JIS C 5202 5.6	± 0.5%
Load Life	MIL-STD 202, Method 208	± 1%
Terminal Strength	MIL-STD 202, Method 211	± 0.2%
Temperature Cycling	JESD22 Method JA-104	± 1%
Moisture Resistance	MIL-STD 202, Method 106	± 0.5%

Operating Temperature Range: -55°C to +155°C

How to Order

SEI Type		Code	TCR	Nominal Resistance	Tolerance	Packaging				
RNF		1/4	T1	4.75K	1%		R			
Type	Description	Code	TCR	Tolerance		Values	SEI Types	Pkg Qty	Code	Description
RNF	Standard	1/8	T1	100ppm	0.1%	E96	1/8, 1/4, RNMF 1/2, RNS 1/2, RNS 1	5,000	R	tape and reel
RNMF	Mini	1/4	T2	50ppm	0.25%	E96	1/2, 1, RNS 2	2,500	T	ammo
RNS	Ultra-Mini	1/2	T9	25ppm	0.5%	E96	1/8, 1/4, RNMF 1/2, RNS 1, RNS 2	5,000		
PRN	Panasert	1	TB	10ppm	1%	E96, E24	1/2	2,000	A	bulk
PRNF	Pana - RoHS	2			5%	E24	1	1,000		
							1/8, 1/4, 1/2	1,000	R	tape and reel
							2	1,000	T	ammo
							2, RNS 1, RNS 2	1,000	A	bulk

New part number format starting January 3rd, 2011:

How to Order

1	2	3	4	5	6	7	8	9	10	11	12
R	N	F	1	4	F	T	D	4	K	7	5

Product Series		Size	Power	Tolerance		Packaging			TCR		Resistance Value	
RNF	Standard	18	0.125W	Code	Tol	Code	Description	Size	Quantity	Code	ppm	Four characters with the multiplier used as the decimal holder. 10 ohm = 10R0 10.2 Kohm = 10K2 1 Mohm = 1M00
RNMF	Mini	14	0.25W	B	0.1%	T	tape and reel	RNF 18, 14; RNMF 12, RNS 12, 1	5,000	T	10	
PRNF	Panasert RoHS	12	0.5W	C	0.25%			RNF 12, 1; RNS 2	2,500	E	25	
RNS	Ultra Miniature	1	1W	D	0.5%			RNF 2	1,000	C	50	
		2	2W	F	1%	A	ammo	RNF 18, 14; RNMF 12; RNS 1, 2	5,000	D	100	
				G	2%			RNF 12	2,000			
				J	5%	B	bulk	RNF 1, 2	1,000			
								RNF 18, 14, 12, 2; RNS 1, 2	1,000			