The state

110

Resistive Product Solutions

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
- RNF 5% replaces MP series
- Lower or higher resistance values may be possible (contact factory)
- RoHS compliant / lead-free

Electrical Specifications												
Type / Code	Mil Ref	Power Rating (Watts)	Maximum Working Voltage	Maximum Overload Voltage	Resistance Temperature	e						
		@ 70°C	(Vrms) (1)	(Vrms)	Coefficient	0.05%	0.1%	0.25%	0.5%	1%	2%	5%
RNF18	RN 50	0.125W	200V	400V	±10 ppm/ºC ±25 ppm/ºC ±50 ppm/ºC	100 - 100K	100 - 100K 100 - 100K 100 - 100K 100 - 100K 100 - 100K 100 - 100K 100 - 100K 49.9 - 499K 1 - 1M			-		
					±100 ppm/ºC		51.1 - 100K		10 - 11	1 - 10M	1 -	22M
					±10 ppm/ºC		100 - 100K		-			-
RNF14	RN 55	5 0.25W	250V	500V	±25 ppm/°C ±50 ppm/°C	100 - 100K				10 - 1M	-	
	14100							1 - 2.2M		1 - 5.11M		1.1M - 10M
					±100 ppm/ºC				1	1 - 10M	5.6 - 10M	1 - 10M
		0.5W	350V	700V	±25 ppm/ºC	100 - 100K		49.9 - 499K			-	
RNF12	RN 60				±50 ppm/ºC			10 - 1M	1 - 4.99M			
					±100 ppm/ºC				1 - 10M	1 -	10M	
RNF1	RN 65	1W	350V	700V	±25 ppm/°C ±50 ppm/°C ±100 ppm/°C		-		10 - 1M	- 10 - 470K 1 - 1M	-	- 10 - 470K 1 - 1M
					±25 ppm/⁰C					-		
RNF2	-	2W	350V	800V	±50 ppm/ºC ±100 ppm/ºC		-			10 - 1M	-	- 10 - 1M
	-	- 0.25W	0.25W 200V	V 400V	±25 ppm/ºC			30.1 - 499K		30.1 - 499K		
RNMF14					±50 ppm/⁰C	-	100 - 100K		10 - 1M	1 - 1M		-
					±100 ppm/ºC				10 - 110	1 - 2.15M	1 -	2.2M
					±25 ppm/ºC	30.1 - 294K		49.9 - 1M			_	
RNMF12	RL 07	0.5W	350V	600V	±50 ppm/ºC ±100 ppm/ºC	-	30.1	- 1M	10 - 1M	1 - 1M 1 - 10M	1 -	- 10M

(1) Lesser of VPR or maximum working voltage

Performance Characteristics									
Test	Test Method	Typical Results	Test Limits						
Insulation Resistance	JIS C5201-1, IEC60115-1, 4.6	≥ 1000 MΩ	≥ 100	00 ΜΩ					
Voltage Proof	JIS C5201-1, IEC60115-1, 4.7	<± 0.25%	≤ ± (0.5% + 0.05Ω)	No mechanical damage.					
Short Time Overload	JIS C5201-1, IEC60115-1, 4.13	<± 0.1%	≤ ± (0.25% + 0.05Ω)						
Resistance to Solder Heat	JIS C5201-1, IEC60115-1, 4.18	<± 0.01%	≤ ± (0.3% + 0.05Ω)						
Rapid Change of Temperature	JIS C5201-1, IEC60115-1, 4.19	<± 0.05%	≤ ± (0.35% + 0.05Ω)						
Endurance at 70°C	JIS C5201-1, IEC60115-1, 4.25.1	<± 0.15%	≤± (1.0%	+ 0.05Ω)					
Robustness of Terminations	JIS C5201-1, IEC60115-1, 4.16	<± 0.10%	≤ ± (0.2%	ο + 0.05Ω)					
Damp Heat (Steady state)	JIS C5201-1, IEC60115-1, 4.24	<± 0.10%	≤± (1.5% + 0.05Ω)						

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

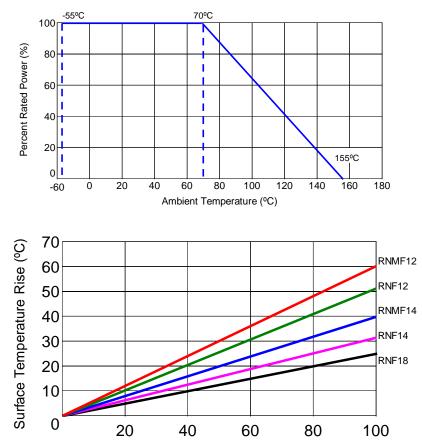
Rev Date: 11/16/2017

General Purpose Metal Film Resistor

Product Solutions

		Mechanical Spec	ifications		
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Unit
RNF18	0.130 ± 0.012	0.071 ± 0.012	1.102 ± 0.118	0.018 ± 0.003	inches
	3.30 ± 0.30	1.80 ± 0.30	28.00 ± 3.00	0.45 ± 0.07	mm
RNF14	0.250 ± 0.026	0.093 ± 0.010	1.102 ± 0.118	0.022 ± 0.003	inches
	6.35 ± 0.65	2.35 ± 0.25	28.00 ± 3.00	0.56 ± 0.08	mm
RNF12	0.344 ± 0.030	0.108 ± 0.039	1.102 ± 0.197	0.026 ± 0.004	inches
	8.75 ± 0.75	2.75 ± 1.00	28.00 ± 5.00	0.65 ± 0.10	mm
RNF1	0.433 ± 0.039	0.177 ± 0.020	1.181 ± 0.118	0.030 ± 0.002	inches
	11.00 ± 1.00	4.50 ± 0.50	30.00 ± 3.00	0.75 ± 0.05	mm
RNF2	0.591 ± 0.039	0.197 ± 0.020	1.339 ± 0.157	0.028 ± 0.004	inches
	15.00 ± 1.00	5.00 ± 0.50	34.00 ± 4.00	0.70 ± 0.10	mm
RNMF14	0.130 ± 0.012	0.070 ± 0.003	1.102 ± 0.118	0.017 ± 0.002	inches
	3.30 ± 0.30	1.78 ± 0.08	28.00 ± 3.00	0.44 ± 0.05	mm
RNMF12	0.250 ± 0.026	0.093 ± 0.010	1.102 ± 0.118	0.022 ± 0.003	inches
	6.35 ± 0.65	2.35 ± 0.25	28.00 ± 3.00	0.56 ± 0.08	mm

Power Derating Curve:



Surface Temperature Rise:

Percent Rated Power (%)

RNF/RNMF Series

Stackpole Electronics, Inc.

General Purpose Metal Film Resistor

esistive Product Solutions

Packaging Specifications										
Points are cut at dotted line for 10° (25mm) reel only										
Series	Code	A max ^{.(1)}	B max	С	D ⁽²⁾	Таре	Unit			
	18 14 12	2.756 ± 0.118 70.00 ± 3.00	11.811 ± 0.197 300.00 ± 5.00	0.197 ± 0.020 5.00 ± 0.50	2.047 ± 0.020 52.00 ± 0.50	0.250 6.35	inches mm			
		2.756 ± 0.118 70.00 ± 3.00	11.811 ± 0.197 300.00 ± 5.00	0.197 ± 0.020 5.00 ± 0.50	2.047 ± 0.020 52.00 ± 0.50	0.250 6.35	inches mm			
RNF		2.756 ± 0.118 70.00 ± 3.00	11.811 ± 0.197 300.00 ± 5.00	0.197 ± 0.020 5.00 ± 0.50	2.047 ± 0.020 52.00 ± 0.50	0.250 6.35	inches mm			
	1	2.756 ± 0.118 70.00 ± 3.00	11.811 ± 0.197 300.00 ± 5.00	0.197 ± 0.020 5.00 ± 0.50	2.047 ± 0.020 52.00 ± 0.50	0.250 6.35	inches mm			
	2	2.756 ± 0.118 70.00 ± 3.00	11.811 ± 0.197 300.00 ± 5.00	0.197 ± 0.020 5.00 ± 0.50	2.047 ± 0.020 52.00 ± 0.50	0.250 6.35	inches mm			
	14	2.756 ± 0.118 70.00 ± 3.00	11.811 ± 0.197 300.00 ± 5.00	0.197 ± 0.020 5.00 ± 0.50	2.047 ± 0.020 52.00 ± 0.50	0.250 6.35	inches mm			
RNMF	12	2.756 ± 0.118 70.00 ± 3.00	11.811 ± 0.197 300.00 ± 5.00	0.197 ± 0.020 5.00 ± 0.50	2.047 ± 0.020 52.00 ± 0.50	0.250 6.35	inches mm			

Dimension "E": This is a non-critical dimension that does not have a tolerance in the standard.

Range of diameters is from 0.547 inches (13.90 mm) to 1.500 inches (38.10 mm).

(1) Reference value only. The "A" dimension shall be governed by the overall length of the taped component.

The distance between flanges shall be 0.059 inches (1.50 mm) to 0.315 (8.00 mm) greater than the overall component.

(2) The given dimension "D" expresses the standard width spacing. A 26mm narrow spacing is available as option "N" packaging code.

RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 2). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament.

RoHS Compliance Status									
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)			
RNF	General Purpose Metal Film Leaded Resistor	Axial	YES	99.3/0.7 Sn/Cu 100% Matte Sn	Apr-05 (Japan) Jan-04 (Taiwan, China)	05/14 04/01			
RNMF	General Purpose Mini Metal Film Leaded Resistor	Axial	YES	99.3/0.7 Sn/Cu 100% Matte Sn	Apr-05 (Japan) Jan-04 (Taiwan, China)	05/14 04/01			

"Conflict Metals" Commitment

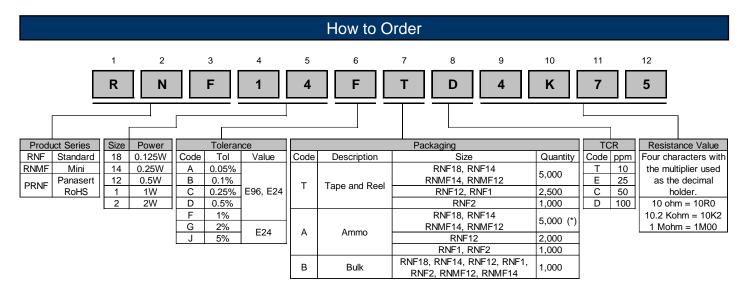
We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the Eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.



(*) Precision metal film resistors with tolerances <1% may be available in smaller quantities. Contact factory for more details.

X-ON Electronics

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Click to view products by Stackpole manufacturer:

Other Similar products are found below :

FRN25J330R FRN50J1R0S H4100RBYA H415RBZA H41K1BYA H41K5BYA H41M0BDA H420R5BCA H421R5BZA H4221RBYA H424K3BDA H442K2BDA H45K62BZA H4634RBZA H473R2BZA H4931KBZA H8160KFDA H8274KBZA H82K0FDA H82K0FZA H87K5DYA RLR05C6201GS HR01623J HR01682J 270-1.69M-RC LR0204F110R LR0204F18R LR0204F20K LR0204F20R LR0204F510R LR1F121R LR1F133K LR1F383R LR1F3K01 LR1F4K75 LR2F330RJIT LR2F51R LR2F910R ERX-2SZJR20E SQMR74K7J FMF-25FTF52-100K FRN50J100RS FRN50J470RS H4100RBZA H414R3BZA H415KBYA H4174KBZA H4174RBDA H41K21BYA H41K43BDA