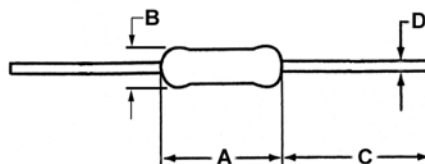


- Features:
- Robust metal oxide film element
 - Flameproof design
 - Compact Size
 - Useful in circuits where duty cycles require power resistors
 - Tin-plated copper leads
 - Cut and formed product is available on select sizes; contact factory for details
 - RoHS compliant / lead-free



Electrical Specifications						
Type / Code	Power Rating (Watts) @ 70°C	Maximum Working Voltage (1)	Maximum Overload Voltage	Resistance Temperature Coefficient	Ohmic Range (Ω) and Tolerance	
					1%, 2%	5%
RSPF14	0.25W	250V	500V	-200 ppm/°C ~ +350 ppm/°C	10 - 100K	2.2 - 1M
RSPF12	0.5W	400V	800V	-200 ppm/°C ~ +350 ppm/°C	10 - 100K	2.2 - 1M
RSPF1	1W	500V	1,000V	-200 ppm/°C ~ +350 ppm/°C	10 - 100K	2.2 - 1M
RSPF2	2W	500V	1,000V	-200 ppm/°C ~ +350 ppm/°C	10 - 100K	2.2 - 1M
RSPF3	3W	500V	1,000V	-200 ppm/°C ~ +350 ppm/°C	10 - 100K	2.2 - 1M
RSPL14	0.25W	\sqrt{PR}	$\sqrt{PR} \times 2.5$	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2
RSPL12	0.5W	\sqrt{PR}	$\sqrt{PR} \times 2.5$	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2
RSPL1	1W	\sqrt{PR}	$\sqrt{PR} \times 2.5$	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2
RSPL2	2W	\sqrt{PR}	$\sqrt{PR} \times 2.5$	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2
RSPL3	3W	\sqrt{PR}	$\sqrt{PR} \times 2.5$	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2

(1) Lesser of \sqrt{PR} or maximum working voltage



Mechanical Specifications					
Type / Code	A Body Length	B Body Diameter	C Lead Length (Bulk)	D Lead Diameter	Unit
RSPF14 / RSPL14	0.13 +0.01/-0	0.072 ± 0.01	1.1 ± 0.12	0.018 ± 0.002	inches
	3.2 +0.2/-0	1.82 ± 0.2	28.0 ± 3.0	0.45 ± 0.05	mm
RSPF12 / RSPL12	0.24 ± 0.02	0.09 ± 0.01	1.1 ± 0.12	0.022 ± 0.002	inches
	6.0 ± 0.5	2.3 ± 0.2	28.0 ± 3.0	0.55 ± 0.05	mm
RSPF1 / RSPL1	0.35 ± 0.04	0.12 ± 0.02	1.1 ± 0.12	0.028 ± 0.002	inches
	9.0 ± 1.0	3.0 ± 0.5	28.0 ± 3.0	0.7 ± 0.05	mm
RSPF2 / RSPL2	0.43 ± 0.04	0.16 ± 0.02	1.1 ± 0.12	0.031 ± 0.002	inches
	11.0 ± 1.0	4.0 ± 0.5	28.0 ± 3.0	0.8 ± 0.05	mm
RSPF3 / RSPL3	0.59 ± 0.04	0.22 ± 0.04	1.38 ± 0.12	0.031 ± 0.002	inches
	15.0 ± 1.0	5.5 ± 1.0	35.0 ± 3.0	0.8 ± 0.05	mm

Performance Characteristics	
Test	Test Results
Short Time Overload	±(0.75% + 0.05Ω)
Moisture Resistance	±(5% + 0.05Ω)
Load Life @ 70°C - 1,000 hours	±(5% + 0.05Ω)
Dielectric Withstanding Voltage	±(5% + 0.05Ω)
Resistance to Solvent	Permanent marking no physical damage or deterioration
Non-combustibility	Does not burn continuously for more than 5 seconds

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

How to Order

1 2 3 4 5 6 7 8 9 10 11 12

R
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Product Series		Size	Power Rating	Tolerance			Packaging			Resistance Value		
RSPF	Flameproof	14	0.25W	Code	Tol	Value	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder. 2.2 ohm = 2R20 10 Kohm = 10K0 1 Mohm = 1M00	
RSPF	Flameproof	14	0.25W	F	1%	E96	T	Tape and Reel	RSPF14, RSPL14	5,000		
RSPL	Low values	12	0.5W	G	2%	E24			RSPF12, RSPL12		2,500	
		1	1W	J	5%							RSPF2, RSPL2
		2	2W					Bulk	RSPF3, RSPL3	1,000		
		3	3W							RSPF14, RSPL14	2,000	
										RSPF12, RSPL12	1,000	
									RSPF1, RSPL1	5,000		
									RSPF2, RSPL2			2,000
									RSPF3, RSPL3		500	
									RSPF14, RSPL14	1,000		
									RSPF12, RSPL12			2,000
									RSPF1, RSPL1		500	
									RSPF2, RSPL2	1,000		
									RSPF3, RSPL3			500

Legacy Part Number (before January 3, 2011):

SEI Type		Code	Nominal Resistance	Tolerance	Packaging	
RSPF		1/2	10	5%	A	
Type	Description	Code	Wattage	Tolerance	Values	
RSPF	Flameproof	1/4	0.25W	1%	E96	
RSPL	Low values	1/2	0.5W	2%	E24	
		1	1W	5%	E24	
		2	2W			
		3	3W			
				Types		
				Qty	Description	
					Code	
				RSPF14, RSPL14	Tape and Reel	R
				RSPF12, RSPL12		
				RSPF1, RSPL1		
				RSPF2, RSPL2	Ammo	T
				RSPF3, RSPL3		
				RSPF14, RSPL14		
				RSPF12, RSPL12	Bulk	A
				RSPF1, RSPL1		
				RSPF2, RSPL2		
				RSPF3, RSPL3		