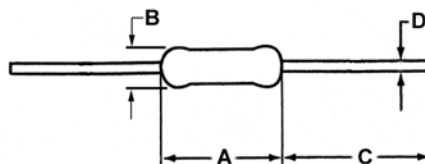


- Features:
- Robust metal oxide film element
 - Flameproof design
 - Compact Size
 - Useful in circuits where duty cycles require power resistors
 - Tin-plated copper leads
 - Cut and formed product is available on select sizes; contact factory for details
 - RoHS compliant / lead-free



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	√PR	√PR x 2.5	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2
RSPL12	0.5W	√PR	√PR x 2.5	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2
RSPL1	1W	√PR	√PR x 2.5	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2
RSPL2	2W	√PR	√PR x 2.5	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2
RSPL3	3W	√PR	√PR x 2.5	-200 ppm/°C ~ +350 ppm/°C	-	0.1 - 2

(1) Lesser of √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 3.2 +0.2/-0	0.072 ± 0.01 1.82 ± 0.2	1.1 ± 0.12 28.0 ± 3.0	0.018 ± 0.002 0.45 ± 0.05	inches mm
RSPF12 / RSPL12	0.24 ± 0.02 6.0 ± 0.5	0.09 ± 0.01 2.3 ± 0.2	1.1 ± 0.12 28.0 ± 3.0	0.022 ± 0.002 0.55 ± 0.05	inches mm
RSPF1 / RSPL1	0.35 ± 0.04 9.0 ± 1.0	0.12 ± 0.02 3.0 ± 0.5	1.1 ± 0.12 28.0 ± 3.0	0.028 ± 0.002 0.7 ± 0.05	inches mm
RSPF2 / RSPL2	0.43 ± 0.04 11.0 ± 1.0	0.16 ± 0.02 4.0 ± 0.5	1.1 ± 0.12 28.0 ± 3.0	0.031 ± 0.002 0.8 ± 0.05	inches mm
RSPF3 / RSPL3	0.59 ± 0.04 15.0 ± 1.0	0.22 ± 0.04 5.5 ± 1.0	1.38 ± 0.12 35.0 ± 3.0	0.031 ± 0.002 0.8 ± 0.05	inches mm

Performance Characteristics (JIS C 5202)	
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 S P F 1 2 J B 1 0 R 0

Product Series		Size	Power Rating	Tolerance		Packaging			Resistance Value	
RSPF	Flameproof	14	0.25W	Code	Tol	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	12	0.5W	F	1%	T	tape and reel	RSPF14, RSPL14	5,000	
RSPL	Low values	1	1W	G	2%			RSPF1, RSPL1	1,000	
		2	2W	J	5%			RSPF2, RSPL2	500	
		3	3W					RSPF3, RSPL3	400	
						B	bulk	RSPF14, RSPL14	2,000	
								RSPF12, RSPL12	1,000	
								RSPF1, RSPL1		
								RSPF2, RSPL2		
						A	ammo	RSPF3, RSPL3	5,000	
								RSPF14, RSPL14	2,000	
								RSPF12, RSPL12	1,000	
								RSPF1, RSPL1	500	
								RSPF2, RSPL2	400	
								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%	E24
RSPL	Low values	1/2	0.5W	2%	E24
		1	1W	5%	E12
		2	2W		
		3	3W		
Types	Qty	Description	Code		
RSPF14, RSPL14	5,000	Tape and Reel	R		
RSPF12, RSPL12					
RSPF1, RSPL1					
RSPF2, RSPL2					
RSPF3, RSPL3	500				
RSPF14, RSPL14	400				
RSPF14, RSPL14	5,000	Ammo	T		
RSPF12, RSPL12					
RSPF1, RSPL1	2,000				
RSPF2, RSPL2	1,000				
RSPF3, RSPL3	500				
RSPF14, RSPL14	2,000	Bulk	A		
RSPF12, RSPL12					
RSPF1, RSPL1	1,000				
RSPF2, RSPL2					
RSPF3, RSPL3					