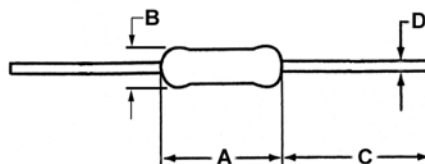


- Features:
- Robust metal oxide film element
 - Flameproof design
 - Compact Size
 - Useful in circuits where duty cycles require power resistors
 - Tin-plated copper leads
 - Cut and formed product is available on select sizes; contact factory for details
 - RoHS compliant / lead-free



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
Code	Description			Code	Tol	Code	Description	Size	Quantity	
RSPF	Flameproof	14	0.25W	F	1%	T	tape and reel	RSPF, RSPL1	1,000	Four characters with the multiplier used as the decimal holder.
RSPL	Low values	12	0.5W	G	2%	B	bulk	RSPF, RSPL2	500	
		1	1W	J	5%			RSPF, RSPL3	400	
		2	2W			RSPF, RSPL14	2,000			
		3	3W			A	ammo	RSPF, RSPL12	1,000	2.2 ohm = 2R20 10 Kohm = 10K0 1 Mohm = 1M00
								RSPF, RSPL2	1,000	
								RSPF, RSPL3	1,000	
								RSPF, RSPL14	5,000	
								RSPF, RSPL12	2,000	
								RSPF, RSPL1	1,000	
								RSPF, RSPL2	1,000	
								RSPF, 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	Types	Qty	Description	Code
RSPF	Flameproof	1/4	0.25W	1%	E24	RSPF1, RSPL1	1,000	Tape and Reel	R
RSPL	Low values	1/2	0.5W	2%	E24	RSPF2, RSPL2	500		
		1	1W	5%	E12	RSPF3, RSPL3	400		
		2	2W			RSPF14, RSPL14	5,000	Ammo	T
		3	3W			RSPF12, RSPL12	2,000		
						RSPF1, RSPL1	2,000		
						RSPF2, RSPL2	1,000		
						RSPF3, RSPL3	500	Bulk	A
						RSPF14, RSPL14	2,000		
						RSPF12, RSPL12	1,000		
						RSPF1, RSPL1	1,000		
						RSPF2, RSPL2	1,000		
						RSPF3, RSPL3	500		