



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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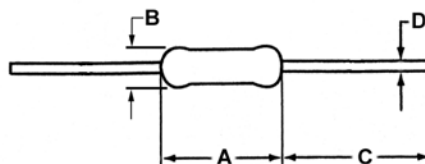


- Features:
- Robust metal oxide film element
  - Flameproof design
  - Compact Size
  - Useful in circuits where duty cycles require power resistors
  - Tin-plated copper leads
  - Cut and formed product is available on select sizes; contact factory for details
  - RoHS compliant / lead-free



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