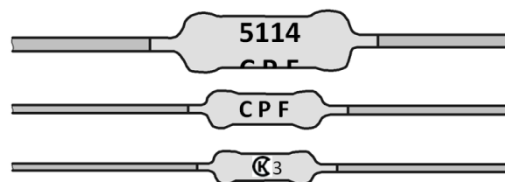


### FEATURES

- Resistance Tolerance to 0.01 %
- Temperature Coefficient to 5 ppm/°C

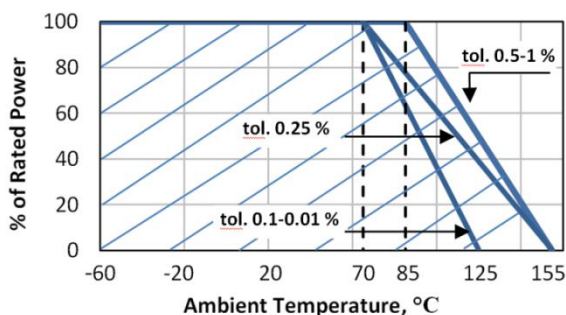
### GENERAL SPECIFICATIONS

- **Operating Temp. Range:** for tol. 0.1-0.01 % -60 °C to 125 °C  
for tol. 0.25-1 % to 155 °C
- **Package:** Leaded
- **Process:** Metal Film
- **Substrate Material:** 85 % Al<sub>2</sub>O<sub>3</sub>
- **Coating:** Enamel
- **Termination Finish:** Sn-Pb



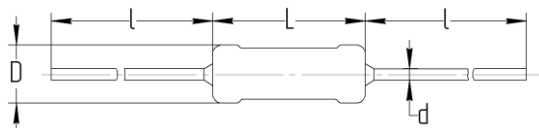
Part Number	Power, size (W)	Resistance Value, E192 Series (Ohms)	Resistance Tolerance (± %)	Max. Operating Voltage (V)	Temperature Coefficient (ppm/°C)	Max. Resistance Change at Rated Dissipation  ΔR/R max.   after	
						2000 h	25000 h
R1-126-0062A	0.062 (0207)	10-100	1, 0.5, 0.25	150	±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.05 %	0.5 %
		101-1K	1, 0.5, 0.25, 0.1, 0.05, 0.02		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.05 %	0.5 %
		1.01K-75K	1, 0.5, 0.25, 0.1, 0.05, 0.02, <b>0.01</b>		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.01 %	0.25 %
		75.9K-100K	1, 0.5, 0.25, 0.1, 0.05, 0.02		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.05 %	0.5 %
		101K-511K	1, 0.5, 0.25, 0.1, 0.05		±100, ±50, ±25	0.05 %	0.5 %
R1-126-0125B	0.125 (0207)	10-1K	1, 0.5, 0.25, 0.1	200	±100, ±50, ±25, ±10	=tolerance	0.5 %
		1.01K-100K	1, 0.5, 0.25, 0.1, 0.05		±100, ±50, ±25, ±10	=tolerance	0.5 %
		101K-1M	1, 0.5, 0.25, 0.1		±100, ±50, ±25	=tolerance	0.5 %
		1.01M-3.01M	1, 0.5, 0.25		±100, ±50	=tolerance	0.5 %
R1-126-0125A	0.125 (0308)	1-10	1, 0.5	200	±100, ±50	=tolerance	=tolerance
		10.2-100	1, 0.5, 0.25, 0.1, 0.05		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.05 %	0.5 %
		101-249	1, 0.5, 0.25, 0.1, 0.05, 0.02		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.05 %	0.5 %
		252-100K	1, 0.5, 0.25, 0.1, 0.05, 0.02, <b>0.01</b>		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.01 %	0.25 %
R1-126-0250B	0.25 (0308)	101K-1M	1, 0.5, 0.25, 0.1, 0.05	300	±100, ±50, ±25, ±10	0.05 %	0.5 %
		1-10	1, 0.5		±100, ±50	=tolerance	0.5 %
		10.2-1K	1, 0.5, 0.25, 0.1		±100, ±50, ±25, ±10	=tolerance	0.5 %
		1.01K-100K	1, 0.5, 0.25, 0.1, 0.05		±100, ±50, ±25, ±10	=tolerance	0.5 %
		101K-1M	1, 0.5, 0.25, 0.1		±100, ±50, ±25	=tolerance	0.5 %
R1-126-0250A	0.25 (0411)	1.01M-5.11M	1, 0.5, 0.25	350	±100, ±50	=tolerance	0.5 %
		1-10	1, 0.5		±100, ±50	=tolerance	=tolerance
		10.2-47	1, 0.5, 0.25		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.05 %	0.5 %
		47.5-100	1, 0.5, 0.25, 0.1, 0.05		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.05 %	0.5 %
		101-249	1, 0.5, 0.25, 0.1, 0.05, 0.02		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.05 %	0.5 %
		252-100K	1, 0.5, 0.25, 0.1, 0.05, 0.02, <b>0.01</b>		±100, ±50, ±25, ±10, ±5 <sup>1</sup>	0.01 %	0.25 %
R1-126-0500B	0.5 (0411)	101K-1M	1, 0.5, 0.25, 0.1, 0.05	500	±100, ±50, ±25, ±10	0.05 %	0.5 %
		1.01M-2.21M	1, 0.5, 0.25		±100, ±50, ±25	=tolerance	0.5 %
		1-10	1, 0.5		±100, ±50	=tolerance	=tolerance
		10.2-100	1, 0.5, 0.25		±100, ±50, ±25	=tolerance	0.5 %
		101-100K	1, 0.5, 0.25, 0.1, 0.05		±100, ±50, ±25	=tolerance	0.5 %
		101K-1M	1, 0.5, 0.25, 0.1		±100, ±50, ±25	=tolerance	0.5 %
		1.01M-3.01M	1, 0.5, 0.25		±100, ±50, ±25	=tolerance	0.5 %

<sup>(1)</sup> measured from 20 °C to 55 °C



### PART NUMBER CODE

R1-126	0062A	1001	T	1
model	power, size	value	tolerance	TC
	0062A = 0.062 W 0207	1R00 = 1 Ω	T = 0.01 %	1 = 5 ppm
	0125B = 0.125 W 0207	5114 = 5.11 MΩ	Q = 0.02 %	2 = 10 ppm
	0125A = 0.125 W 0308		A = 0.05 %	3 = 25 ppm
	0250B = 0.25 W 0308		B = 0.1 %	4 = 50 ppm
	0250A = 0.25 W 0411		C = 0.25 %	5 = 100 ppm
	0500B = 0.5 W 0411		D = 0.5 %	
			F = 1 %	



Part Number	Size	Dimensions (mm)				Mass (g)
		L	ØD	l	Ød	
R1-126-0062A R1-126-0125B	0207	6.5 <sub>-0.5</sub>	2.3 <sub>-0.4</sub>	16 <sup>+4</sup>	0.6±0.1	0.25
R1-126-0125A R1-126-0250B	0308	8 <sub>-1.6</sub>	3.5 <sub>-0.7</sub>	16 <sup>+4</sup>	0.6±0.1	0.3
R1-126-0250A R1-126-0500B	0411	11 <sub>-1.3</sub>	4.5 <sub>-0.8</sub>	25 <sup>+5</sup>	0.8±0.1	1

### PERFORMANCE CHARACTERISTICS

Test	Condition	ΔR max.
Robustness of termination	IEC60115-1 (4.16)/ IEC 60068-2-21 Bending; Tensile	= tolerance <sup>1</sup>
Solderability	IEC60115-1 (4.17)/ IEC 60068-2-20 (235±5) °C; 2 s; solder bath method; SnPb40	Good tinning (>95 % covered, no visible damage)
Resistance to soldering heat	IEC60115-1 (4.18.2)/ IEC 60068-2-20 (260±5) °C; (5±1) s	= tolerance; no visible damage
Rapid change of temperature	IEC60115-1 (4.19)/ IEC 60068-2-14 30 min at -60 °C; 30 min at 125 °C; 5 cycles (tol. 0.1-0.01 %) 30 min at -60 °C; 30 min at 155 °C; 5 cycles (tol. 0.25-1 %)	= tolerance <sup>1</sup>
Vibration	IEC60115-1 (4.22)/ IEC 60068-2-6 32 sweep cycles per direction; 10 Hz to 2000 Hz; 2 mm; 200 m/s <sup>2</sup>	= tolerance <sup>1</sup>
Low air pressure	IEC60115-1 (4.23.5)/ IEC 60068-2-13 19,4 kPa; 30 min; 15 °C to 35 °C	No visible damage
Damp heat, steady state	IEC60115-1 (4.24)/ IEC 60068-2-78 (40±2) °C; 56 days; (93±3) % RH	= tolerance <sup>1</sup>

<sup>(1)</sup> for tol. 0.02 %, 0.01 % – ±0.05 %

All tests are carried out in accordance with the following specifications:

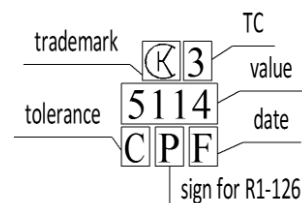
- IEC 60115-1 (clause),
- IEC 60068-2-xx (test method).

### PACKAGING

Carton box.

### MARKING

Nominal value (E192)	Marking
1 Ω to 9.88 Ω	1R00 to 9R88
10 Ω to 98.8 Ω	10R0 to 98R8
100 Ω to 988 Ω	1000 to 9880
1 kΩ to 9.88 kΩ	1001 to 9881
10 kΩ to 98.8 kΩ	1002 to 9882
100 kΩ to 988 kΩ	1003 to 9883
1 MΩ to 5.11 MΩ	1004 to 5114



### MOUNTING PROCEDURE

Can be used only in manual assembly techniques.

#### Date

2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
A	B	C	D	E	F	H	J	K	L	M	N	P	R	S	T	U	V	W	X