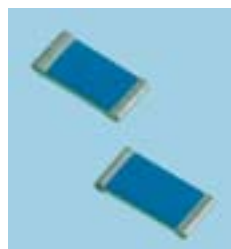


Pulse Withstanding

PWC Series

0.75 Watt (2010 Case Size) & 1.5 Watt (2512 Case Size)



- Thick film technology pulse withstanding chip resistors
- 2010 and 2512 case sizes
- Nickel barrier layer
- Applications include pulse protection in telecom and power supply circuits



Power rating @ 70°C
Resistance tolerance
Temperature coefficient
Case dimensions

2010 Case Size (PWC2010)	2512 Case Size (PWC2512)
0.75W	1.5W
±5%	±5%
±100ppm/°C	±100ppm/°C
L. 5.1, W. 2.5, H. 0.8	L. 6.5, W. 3.2, H. 0.8

Stocked in the following OHMIC values:

2010 Case Size

10R = 110-0081	150R = 110-0089	1K5 = 110-0095	15K = 110-0102
15R = 110-0082	220R = 110-0090	2K2 = 110-0096	22K = 110-0104
22R = 110-0083	330R = 110-0091	3K3 = 110-0097	33K = 110-0106
33R = 110-0084	470R = 110-0092	4K7 = 110-0098	47K = 110-0107
47R = 110-0085	680R = 110-0093	6K8 = 110-0100	68K = 110-0108
68R = 110-0086	1K = 110-0094	10K = 110-0101	100K = 110-0109
100R = 110-0088			

2512 Case Size

10R = 110-0110	100R = 110-0116	1K = 110-0123	10K = 110-0131
15R = 110-0111	150R = 110-0118	1K5 = 110-0124	22K = 110-0132
22R = 110-0112	220R = 110-0119	2K2 = 110-0125	33K = 110-0133
33R = 110-0113	330R = 110-0120	3K3 = 110-0126	47K = 110-0134
47R = 110-0114	470R = 110-0121	4K7 = 110-0127	68K = 110-0135
68R = 110-0115	680R = 110-0122	6K8 = 110-0128	100K = 110-0136

234807

Order Code	5+	50+	100+	500+	+
All Values ●	41.00	39.00	32.00	27.00	--
All Values ●	47.00	44.00	37.00	31.00	--

Features:

- 300mW at +70°C
- Low Current Noise: -40dB 'Noise free component'

Applications:

- Automatic Test Equipment
- Military and Space
- Communication

Power rating @ 70°C (0805)
Power rating @ 70°C (1206)

200mW
300mW

Resistance tolerance
Temperature coefficient max

±0.25%
±0.2ppm/°C

423447

Resistance	Order Code	1+	25+	100+	250+	+
Case 0805						
10R	110-9023 ●	760.00	666.00	557.00	451.00	--
100R	110-9024 ●	841.00	737.00	617.00	499.00	--
250R	110-9025 ●	903.00	791.00	662.00	535.00	--
350R	110-9026 ●	903.00	791.00	662.00	535.00	--
500R	110-9027 ●	903.00	791.00	662.00	535.00	--
1K	110-9028 ●	903.00	791.00	662.00	535.00	--
2K	110-9031 ●	903.00	791.00	662.00	535.00	--
2K5	110-9033 ●	903.00	791.00	662.00	535.00	--
5K	110-9034 ●	903.00	791.00	662.00	535.00	--
10K	110-9035 ●	903.00	791.00	662.00	535.00	--
Case 1206						
10R	110-9036 ●	760.00	666.00	557.00	451.00	--
100R	110-9037 ●	841.00	737.00	617.00	499.00	--
250R	110-9038 ●	903.00	791.00	662.00	535.00	--
350R	110-9039 ●	903.00	791.00	662.00	535.00	--
500R	110-9040 ●	903.00	791.00	662.00	535.00	--
1K	110-9041 ●	903.00	791.00	662.00	535.00	--
2K	110-9043 ●	903.00	791.00	662.00	535.00	--
2K5	110-9044 ●	903.00	791.00	662.00	535.00	--
5K	110-9045 ●	903.00	791.00	662.00	535.00	--
10K	110-9046 ●	903.00	791.00	662.00	535.00	--
20K	110-9047 ●	1,043.00	915.00	765.00	619.00	--
25K	110-9048 ●	1,043.00	915.00	765.00	619.00	--

0.25 Watt ±0.01% - SMR1D Series Surface Mount



- Fully encapsulated precision resistor in surface mount package
- Bulk metal® foil technology
- High precision
- Low temperature coefficient

L = 6.0 ±0.3, W = 3.2 ±0.3, H = 2.5 ±0.3
P = 1.3 ±0.3, TW = 2.2 ±0.1, TH(min) 1.0

Power rating @ 70°C
Resistance variation
Temperature coefficient
Shelf life stability
Load life stability
Thermal e.m.f.
Rise time
Working voltage

0.25W
±0.01%
<0.6ppm/°C nom, 0°C to +60°C
±25PPM/yr
±50ppm/°C typical at full rated power for 2000hrs
<0.1µV/°C max
1ns@ 1k
54V dc or ac peak

Stocked in the following OHMIC Values:

100R = 118-7043	500R = 120-3363	2K = 120-3365	5K = 120-3367	20K = 120-3371
350R = 120-3362	1K = 120-3364	2K5 = 120-3366	10K = 120-3369	25K = 120-3372

207299

Order Code	1+	5+	10+	25+	+
Values 100R to 2K5 ●	663.00	610.00	570.00	431.00	--
Value 5K ●	639.00	588.00	549.00	415.00	--
Values 10K to 25K ●	663.00	610.00	570.00	431.00	--

0.6 Watt ±0.01% - SMR3D Series Surface Mount



L = 7.3 ±0.3, W = 4.3 ±0.3, H = 2.8 ±0.3
P = 1.3 ±0.3, TW = 2.4 ±0.1, TH(min) 1.0

- Fully encapsulated precision resistor in surface mount package
- Bulk metal® foil technology

- High precision
- Low temperature coefficient

Power rating @ 70°C
Resistance variation
Temperature coefficient
Shelf life stability
Load life stability
Thermal e.m.f.
Rise time
Working voltage

0.6W
±0.01%
<0.6ppm/°C nom, 0°C to +60°C
±25PPM/yr
±50ppm/°C typical at full rated power for 2000hrs
<0.1V/°C max
1ns@ 1k
300V dc or ac peak

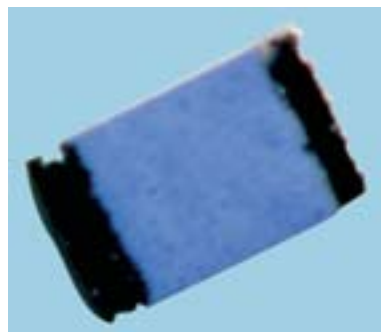
Stocked in the following OHMIC Values:

100R = 120-3373	1K = 120-3376	5K = 120-3378	20K = 120-3380	100K = 120-3382
500R = 120-3375	2K5 = 120-3377	10K = 120-3379		

207301

Bulk Metal Foil Precision

VSMP Series – Foil Resistors



The VSMP Series utilizes ultra precision Bulk Metal® Z-Foil(BMZF). The new Z-Foil technology provides a significant reduction of the resistive element sensitivity to changes of temperature due to ambient temperature variations (TCR) and to self heating when power is applied (power coefficient).

