



PR9476-SERIES

CURRENT SENSING CHIP RESISTOR

PRECISION RESISTIVE PRODUCTS, INC.
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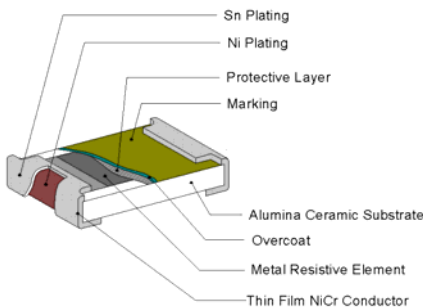
Features:

- Standard Industry Case Sizes
0402, 0603, 0805, 1206, 2010, 2512
1225, 3720 & 7520
- High Purity Alumina Substrate for High Power Dissipation
- Packaging is Tape & Reel
- Wattage Rating up to 3W
- TCR from ± 100 to ± 600 PPM/ $^{\circ}$ C
- Values from 1 mohms to 1000 mohms

Applications:

- Switching Power Supply
- Automotive Engine Control
- DC-DC Converter, Battery Pack, Charger
- Portable Devices (PDA, Cell phone)
- Voltage Regulation Module (VRM)
- Over Current Protection in Audio Application
- Disk Driver
- Power Management Applications

Temperature Coefficient / Resistance Tolerance



Style	Wattage	Pkg. Type	Resistance Range(m Ω)	T.C.R. PPM/ $^{\circ}$ C	Resistance Tolerance @25 $^{\circ}$ C	
PR9476 0402	1/16W	EC	50m – 100m	± 400	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$	
			101m – 500m	± 300		
			501m – 1000m	± 200		
PR9476 0603	1/10W	EC	20m – 50m	± 600	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$	
			51m – 100m	± 400		
			101m – 500m	± 300		
			501m – 1000m	± 200		
PR9476 0805	1/8W / 1/4W	EC	1/8W	20m – 50m	± 600	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$
				51m – 100m	± 400	
				101m – 500m	± 300	
			1/4W	100m – 1000m	± 200	
PR9476 1206	1/4W / 1/2W	EC	1/4W	10m – 20m	± 600	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$
	3/4W		21m – 50m	± 400		
	1W		51m – 500m	± 300		
PR9476 2010	3/4W / 1W	EC	1W	501m – 1000m	± 200	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$
PR9476 2512	1W / 1.5W		1/2W	100m – 1000m	± 300	
			1.5W			
PR9476 1225	3W	SC	3m – 5m	± 300	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$	
			6m – 20m	± 200		
			21m – 30m	± 150		
			31m – 3000m	± 100		
PR9476 3720	1W	SC	10m – 19m	± 300	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$	
			20m – 500m	± 150		
PR9476 7520	2W	SC	1m – 4m	± 300	$\pm 2\%$, $\pm 5\%$	
			5m – 10m	± 200	$\pm 1\%$, $\pm 2\%$, $\pm 5\%$	
			11m – 350m	± 150		



Operating Temperature Range is -55 $^{\circ}$ C to 155 $^{\circ}$ C

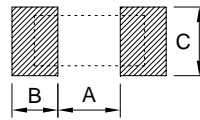
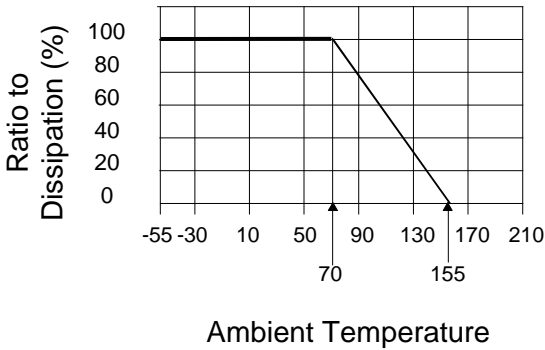
DEDICATION TO EXCELLENCE

Performance Data

Requirements	Performance	Test Method
Short Time Overload	±0.5%	JIS-C-5202-5.5
	±1.0% for high power rating	
Resistance to Soldering Heat	±1.0%	MIL-STD-202F, Method 210E
Thermal Shock	±0.5%	MIL-STD-202F, Method 107G
Load Life	±1.0%	MIL-STD-202F, Method 108A
Humidity	±0.5%	MIL-STD-202F Method 103B
Resistance to Dry Heat	±0.5%	JIS-C-5202-7.2
Temperature Coefficient	As Specifications	MIL-STD-202F, Method 304
Solderability	95% Min. Coverage	MIL-STD-202F, Method 208H

Derating Curve

For resistors operated in ambient above 70°C, power dissipation must be derated in accordance with curve in the below chart..

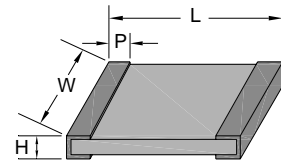


Pad Dimensions Inches (mm)

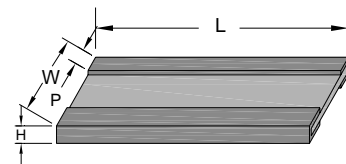
Style	A	B	C
PR9476 0402	0.024 (0.60)	0.016 (0.40)	0.020 ±0.008 (0.50 ±0.2)
PR9476 0603	0.039 (1.00)	0.028 (0.70)	0.039 ±0.008 (1.00 ±0.2)
PR9476 0805	0.039 (1.00)	0.031 (0.80)	0.051 ±0.008 (1.30 ±0.2)
PR9476 1206	0.039 (1.00)	0.031 (0.80)	0.063 ±0.008 (1.60 ±0.2)
PR9476 2010	0.098 (2.50)	0.039 (1.00)	0.157 ±0.008 (4.00 ±0.2)
PR9476 2512	0.207 (5.25)	0.197 (5.00)	0.138 ±0.008 (3.50 ±0.2)
PR9476 1225	0.079 (2.00)	0.079 (2.00)	0.299 ±0.008 (7.60 ±0.2)
PR9476 3720	0.039 (1.00)	0.071 (1.80)	0.236 ±0.008 (6.00 ±0.2)
PR9476 7520	0.047 (1.20)	0.079 (2.00)	0.299 ±0.008 (7.60 ±0.2)

Dimensions Inches (mm)

Style	L	W	H	P
PR9476 0402	0.039 ±0.002 (1.00 ±0.05)	0.020 ±0.002 (0.50 ±0.05)	0.013 ±0.004 (0.32 ±0.10)	0.008 ±0.004 (0.20 ±0.10)
PR9476 0603	0.063 ±0.004 (1.60 ±0.10)	0.031 ±0.004 (0.80 ±0.10)	0.018 ±0.004 (0.45 ±0.10)	0.012 ±0.004 (0.30 ±0.10)
PR9476 0805	0.079 ±0.006 (2.00 ±0.15)	0.049 ±0.006 (1.25 ±0.15)	0.022 ±0.006 (0.55 ±0.15)	0.016 ±0.010 (0.40 ±0.25)
PR9476 1206	0.120 ±0.006 (3.05 ±0.15)	0.061 ±0.006 (1.55 ±0.15)	0.022 ±0.004 (0.55 ±0.10)	0.016 ±0.010 (0.40 ±0.25)
PR9476 2010	0.197 ±0.008 (5.00 ±0.20)	0.096 ±0.006 (2.45 ±0.15)	0.024 ±0.006 (0.60 ±0.15)	0.020 ±0.010 (0.50 ±0.25)
PR9476 2512	0.250 ±0.008 (6.35 ±0.20)	0.124 ±0.006 (3.15 ±0.15)	0.024 ±0.004 (0.60 ±0.10)	0.022 ±0.010 (0.55 ±0.25)
PR9476 1225	0.122 ±0.006 (3.10 ±0.15)	0.248 ±0.006 (6.30 ±0.15)	0.035 ±0.006 (0.90 ±0.15)	0.022 ±0.010 (0.55 ±0.25)
PR9476 3720	0.079 ±0.008 (2.00 ±0.20)	0.100 ±0.006 (3.75 ±0.20)	0.024 ±0.004 (0.60 ±0.10)	0.016 ±0.008 (0.40 ±0.20)
PR9476 7520	0.079 ±0.008 (2.00 ±0.20)	0.295 ±0.012 (7.50 ±0.30)	0.024 ±0.004 (0.60 ±0.10)	0.016 ±0.008 (0.40 ±0.20)



Type EC

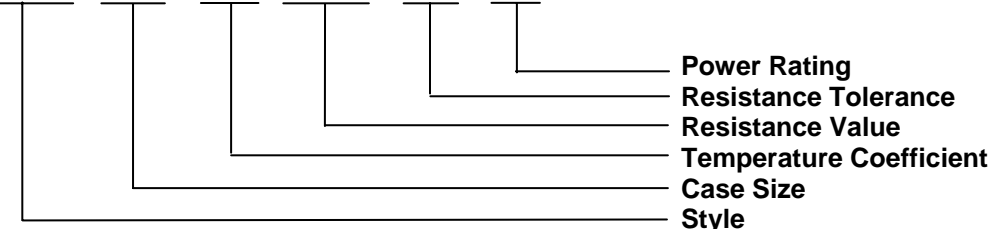


Type SC

How to Order

Sample Part Number

PR9476 2512 T100 0.004R ±1% 1W



[Packaging](#)

Add "T" at the end of the Case Size portion of the part number for lead free termination.