Microwave Carbon Rod Resistors

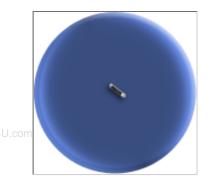
MECHANICAL SPECIFICATIONS



-	Substrate:	Alumina or Beryllium Oxide Ceramic (Note: Letter "P" Denotes Beryllium Oxide.)
ł	Std. Tolerance:	Standard Resistance Tolerance $\pm 2\%$ at 25°C
	Terminals:	Terminal Areas are Nickel/Tin Plated which reduces oxidation thus providing a more solderable terminal.
-	Temperature Range:	-55°C to +200°C.

l	high power carbon rod resistors product selection chart				
P/N	Nominal Power	0.D.	Length	Terminal	
C40R115	1/10 W	0.039" - 0.044"	0.110" - 0.120"	0.020" - 0.040"	
C60R120P	10 W	0.057" - 0.065"	0.115" - 0.127"	0.020" - 0.040"	
C62R187	1/8 W	0.060" - 0.066"	0.181" - 0.193"	0.040" - 0.070"	
C62R187P	10 W	0.060" - 0.066"	0.181" - 0.193"	0.040" - 0.070"	
C62R375P	10 W	0.060" - 0.066"	0.370" - 0.382"	0.032" - 0.062"	
C98R062	1/10 W	0.095" - 0.105"	0.057" - 0.067"	0.005" - 0.020"	
C125R406	1/2 W	0.123" - 0.129"	0.401" - 0.413"	0.090" - 0.125"	
C125R500	1/2 W	0.123" - 0.129"	0.493" - 0.509"	0.048" - 0.078"	
C125R500P	20 W	0.123" - 0.129"	0.493" - 0.509"	0.048" - 0.078"	
C250R500P	25 W	0.247" - 0.255"	0.493" - 0.509"	0.110" - 0.140"	
C250R750P	30 W	0.247" - 0.255"	0.740" - 0.760"	0.110" - 0.140"	
C375R750P	60 W	0.370" - 0.380"	0.740" - 0.760"	0.110" - 0.140"	
C125R500S	1/2 W	0.124" - 0.128"	0.490" - 0.512"	0.000" - 0.030"	

P/N:C40R115



Mechanical Specifications

Substrate Material:

Alumina Ceramic.

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

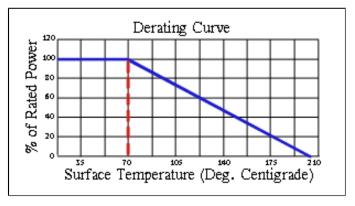
Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Microwave Rods



Electrical Specifications

Resistance Value:

10 - $500\;\Omega$ As required. Other values avalable upon request.

<u>Standard Resistance</u> Tolerance:

Standard Tolerance is ± 2% at 25 °C. Other Tolerances are available upon request.

Nominal Power:

1/10 W.

Frequency Range :

D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

Load Life :

The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

Part Dimensions

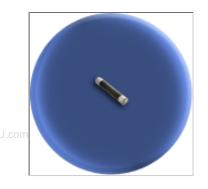


0.020" (0.508mm) - 0.040" (1.016mm) → I← 0.110" (2.794mm) - 0.120" (3.048mm) → I ←

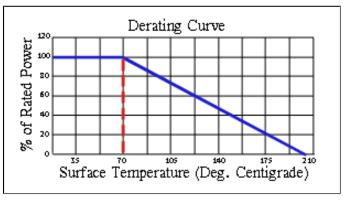
.039" (0.991mm) - 0.044" (1.118mm)

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P/N:C60R120P



Microwave Rods



Mechanical Specifications

Substrate Material:

Beryllium Oxide Ceramic. (Note: Letter "P" denotes Beryllium

Oxide.)

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Electrical Specifications

Resistance Value:

10 - 500 Ω As required. Other values avalable upon request.

Standard Resistance Tolerance:

Standard Tolerance is ± 2% at 25 °C. Other Tolerances are available upon request.

Nominal Power:

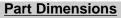
10 W.

Frequency Range :

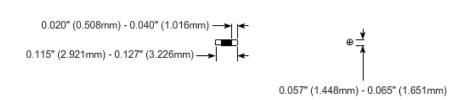
D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

Load Life :

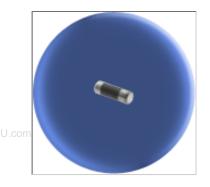
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.







P/N:C62R187



Mechanical Specifications

Substrate Material:

Alumina Ceramic.

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

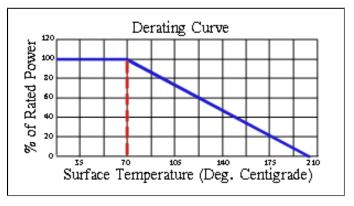
Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Microwave Rods



Electrical Specifications

Resistance Value:

10 - $500\;\Omega$ As required. Other values avalable upon request.

<u>Standard Resistance</u> Tolerance:

Standard Tolerance is ± 2% at 25 °C. Other Tolerances are available upon request.

Nominal Power:

10 W.

Frequency Range :

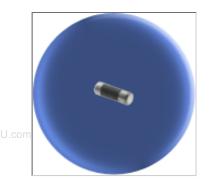
D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

Load Life :

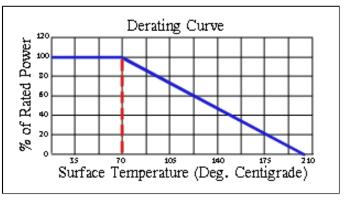
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.



P/N:C62R187P



Microwave Rods



Mechanical Specifications

Substrate Material:

Beryllium Oxide Ceramic. (Note: Letter "P" denotes Beryllium

(Note: Letter "P" denotes Beryllium Oxide.)

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Electrical Specifications

Resistance Value:

10 - 500 Ω As required. Other values avalable upon request.

Standard Resistance Tolerance:

Standard Tolerance is ± 2% at 25 °C. Other Tolerances are available upon request.

Nominal Power:

10 W.

Frequency Range :

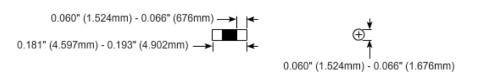
D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

Load Life :

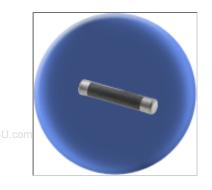
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.



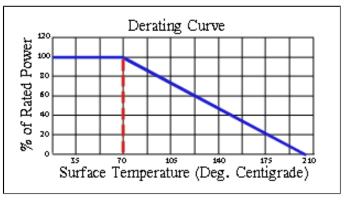




P/N:C62R375P



Microwave Rods



Mechanical Specifications

Substrate Material:

Beryllium Oxide Ceramic. (Note: Letter "P" denotes Beryllium

Oxide.)

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Electrical Specifications

Resistance Value:

10 - $500\;\Omega$ As required. Other values avalable upon request.

Standard Resistance Tolerance:

Standard Tolerance is $\pm 2\%$ at 25 °C. Other Tolerances are available upon request.

Nominal Power:

10 W.

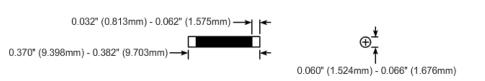
Frequency Range :

D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

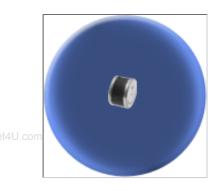
Load Life :

The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.





P/N:C98R062



Mechanical Specifications

Substrate Material:

Alumina Ceramic.

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

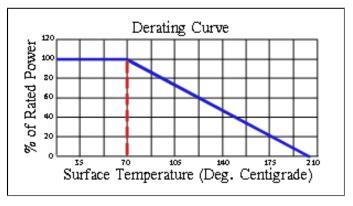
Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Microwave Rods



Electrical Specifications

Resistance Value:

10 - $500\;\Omega$ As required. Other values avalable upon request.

<u>Standard Resistance</u> Tolerance:

Standard Tolerance is ± 2% at 25 °C. Other Tolerances are available upon request.

Nominal Power:

1/10 W.

Frequency Range :

D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

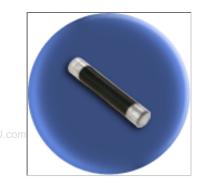
Load Life :

The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

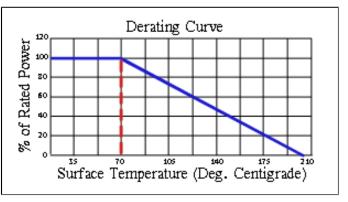


0.005" (0.127mm) - 0.020" (0.508mm)>⊔	⊕ *	
0.057" (1.448mm) - 0.067" (1.702mm)→	Ť	
	0.095" (2.413mm) - 0.105" (2.667mm)	

P/N:C125R406



Microwave Rods



Mechanical Specifications

Substrate Material:

Alumina Ceramic.

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Electrical Specifications

Resistance Value:

10 - $500\;\Omega$ As required. Other values avalable upon request.

Standard Resistance Tolerance:

Standard Tolerance is ± 2% at 25 °C. Other Tolerances are available upon request.

Nominal Power:

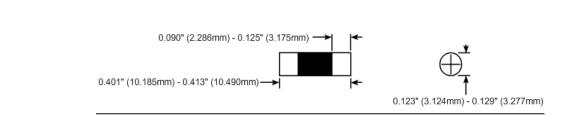
1/2 W.

Frequency Range :

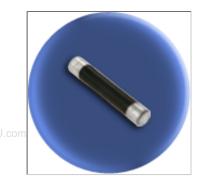
D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

Load Life :

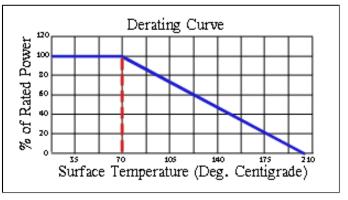
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.



P/N:C125R500



Microwave Rods



Mechanical Specifications

Substrate Material:

Alumina Ceramic.

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Electrical Specifications

Resistance Value:

10 - 500 Ω As required. Other values avalable upon request.

Standard Resistance Tolerance:

Standard Tolerance is $\pm 2\%$ at 25 °C. Other Tolerances are available upon request.

Nominal Power:

20 W.

Frequency Range :

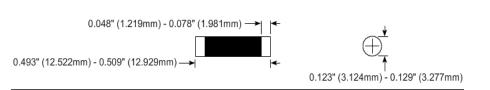
D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

Load Life :

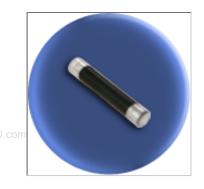
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

Part Dimensions

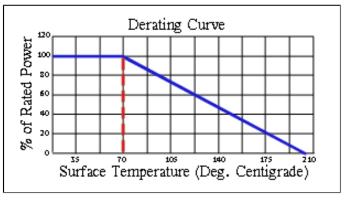




P/N:C125R500P



Microwave Rods



Mechanical Specifications

Substrate Material:

Beryllium Oxide Ceramic. (Note: Letter "P" denotes Beryllium

(Note: Letter "P" denotes Beryllium Oxide.)

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Electrical Specifications

Resistance Value:

10 - 500 Ω As required. Other values avalable upon request.

Standard Resistance Tolerance:

Standard Tolerance is $\pm 2\%$ at 25 °C. Other Tolerances are available upon request.

Nominal Power:

25 W.

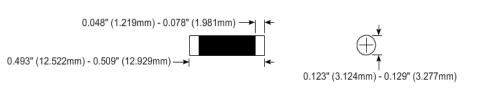
Frequency Range :

D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

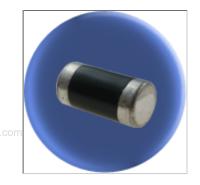
Load Life :

The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

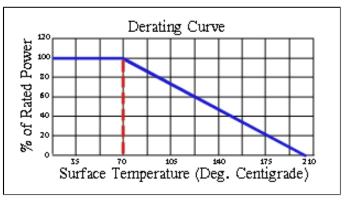




P/N:C250R500P



Microwave Rods



Mechanical Specifications

Substrate Material:

Beryllium Oxide Ceramic. (Note: Letter "P" denotes Beryllium

Oxide.)

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Electrical Specifications

Resistance Value:

10 - $500\;\Omega$ As required. Other values avalable upon request.

Standard Resistance Tolerance:

Standard Tolerance is ± 2% at 25 °C. Other Tolerances are available upon request.

Nominal Power:

25 W.

Frequency Range :

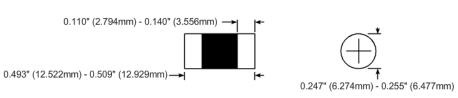
D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

Load Life :

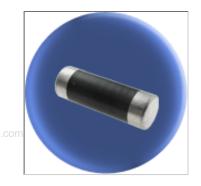
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

Part Dimensions

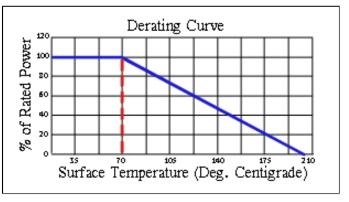




P/N:C250R750P



Microwave Rods



Mechanical Specifications

Substrate Material:

Beryllium Oxide Ceramic. (Note: Letter "P" denotes Beryllium

Oxide.)

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Electrical Specifications

Resistance Value:

10 - 500 Ω As required. Other values avalable upon request.

Standard Resistance Tolerance:

Standard Tolerance is ± 2% at 25 °C. Other Tolerances are available upon request.

Nominal Power:

30 W.

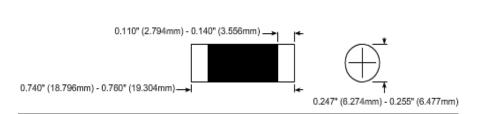
Frequency Range :

D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

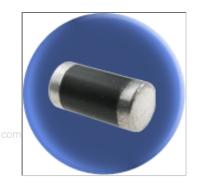
Load Life :

The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

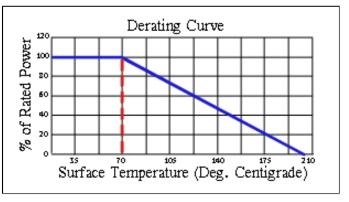




P/N:C375R750P



Microwave Rods



Mechanical Specifications

Substrate Material:

Beryllium Oxide Ceramic.

(Note: Letter "P" denotes Beryllium Oxide.)

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Electrical Specifications

Resistance Value:

10 - $500\;\Omega$ As required. Other values avalable upon request.

Standard Resistance Tolerance:

Standard Tolerance is $\pm 2\%$ at 25 °C. Other Tolerances are

available upon request.

Nominal Power:

60 W.

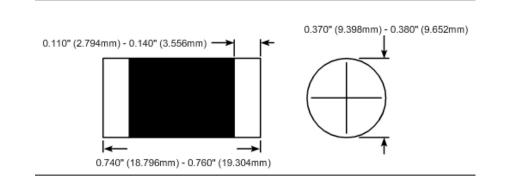
Part Dimensions

Frequency Range :

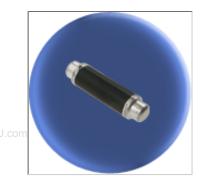
D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

Load Life :

The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.



P/N:C125R500S



Mechanical Specifications

Substrate Material:

Alumina Ceramic.

Terminals:

Terminal areas are nickel / tin plated wich reduces oxidation thus providing a more solderable terminal.

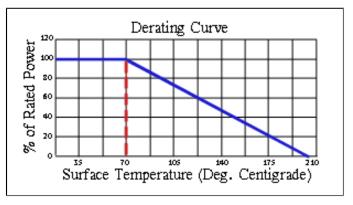
Temperature Range :

-55°C to + 200°C.

Temperature Coefficient :

Standard Temperature Coefficient is - 200 to -300 PPM/°C.

Microwave Rods



Electrical Specifications

Resistance Value:

10 - $500\;\Omega$ As required. Other values avalable upon request.

<u>Standard Resistance</u> Tolerance:

Standard Tolerance is ± 2% at 25 °C. Other Tolerances are available upon request.

Nominal Power:

1/2 W.

Frequency Range :

D.C. to 18 GHz dependent upon how the resistors are mounted and the mounting Hardware's configuration.

Load Life :

The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.



