# Microwave Carbon Rod Resistors

# **■ MECHANICAL SPECIFICATIONS**



Alumina or Beryllium Oxide Ceramic (Note: Letter Substrate:

"P" Denotes Beryllium Oxide.)

Std. Tolerance: Standard Resistance Tolerance ± 2% at 25°C

Terminal Areas are Nickel/Tin Plated which reduces oxidation thus providing a more

solderable terminal.

Temperature

Terminals:

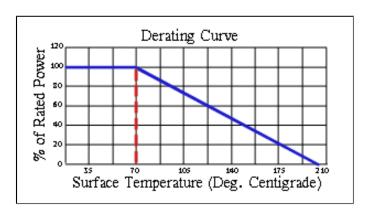
-55°C to +200°C. Range:

high power carbon rod resistors product selection chart				
P/N	Nominal Power	O.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

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

1/10 W.

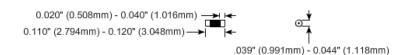
# Frequency Range:

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

### Load Life:

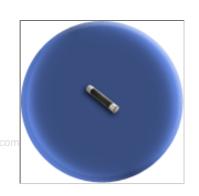
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

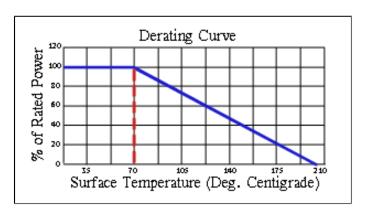




# P/N:C60R120P

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

10 W.

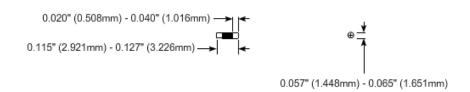
# Frequency Range:

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

### Load Life:

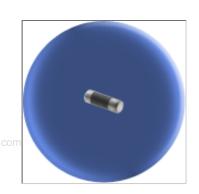
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

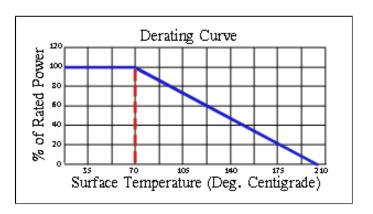




# P/N:C62R187

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

10 W.

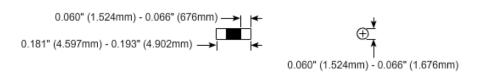
# Frequency Range:

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

### Load Life:

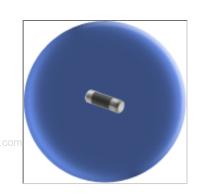
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

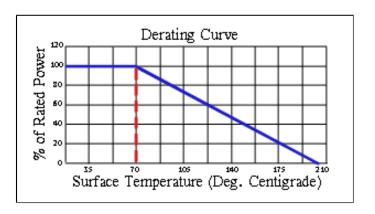




# P/N:C62R187P

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

10 W.

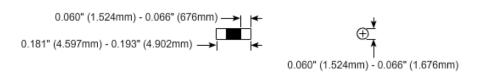
# Frequency Range:

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

### Load Life:

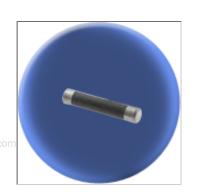
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

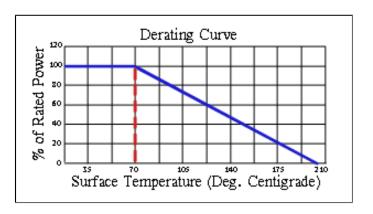




# P/N:C62R375P

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

10 W.

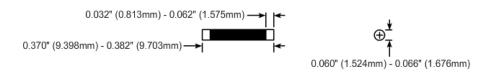
# Frequency Range:

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

### Load Life:

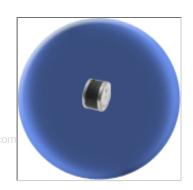
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

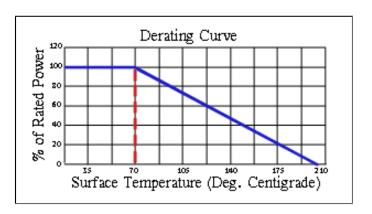




# P/N:C98R062

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

# **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

1/10 W.

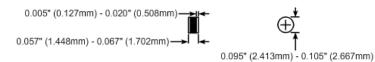
# Frequency Range:

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

### Load Life:

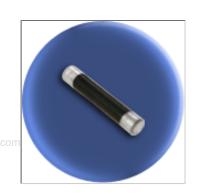
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

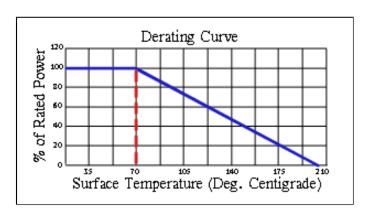




# P/N:C125R406

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

1/2 W.

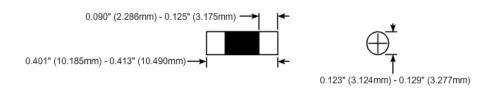
# Frequency Range:

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

### Load Life:

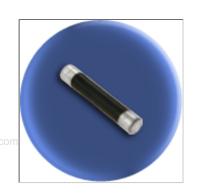
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

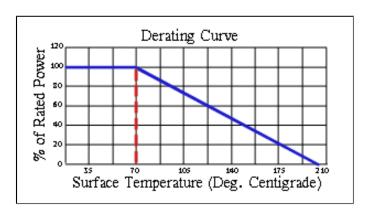




# P/N:C125R500

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

20 W.

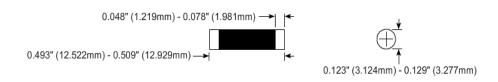
# Frequency Range:

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

### Load Life:

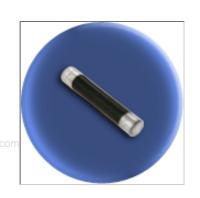
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

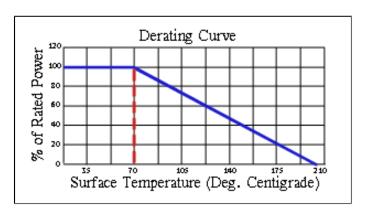




# P/N:C125R500P

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

25 W.

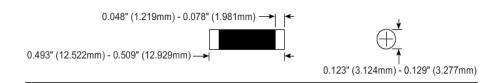
# Frequency Range:

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

### Load Life:

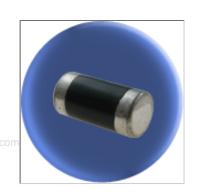
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

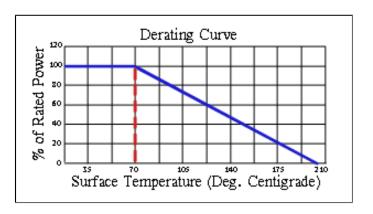




# P/N:C250R500P

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

25 W.

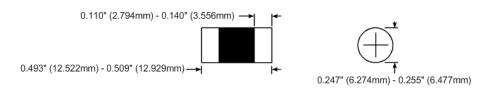
# Frequency Range:

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

### Load Life:

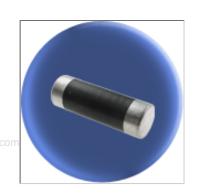
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

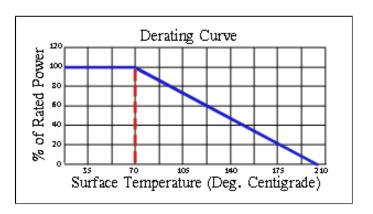




# P/N:C250R750P

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

30 W.

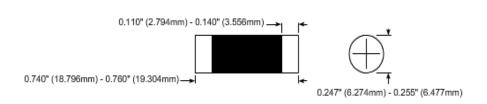
# Frequency Range:

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

### Load Life:

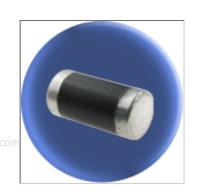
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

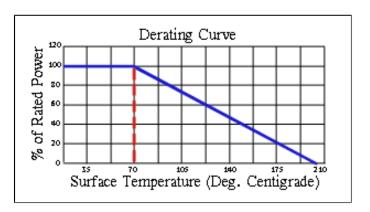




# P/N:C375R750P

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

## **Resistance Value:**

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

# Standard Resistance Tolerance:

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

## **Nominal Power:**

60 W.

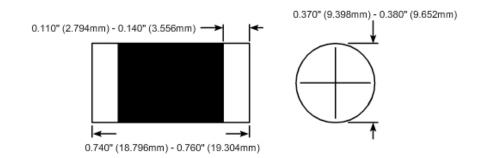
# Frequency Range:

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

### Load Life:

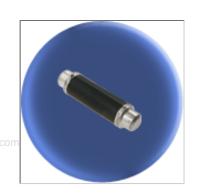
The maximum anticipated change in resistance is 1 % when operated at listed rating for 1,000 hours.

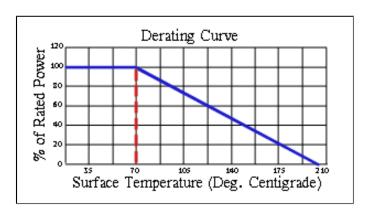




# P/N:C125R500S

# Microwave Rods





# **Mechanical Specifications**

# **Electrical 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.

### **Resistance Value:**

 $10 - 500 \Omega$  As required. Other values available 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.



