

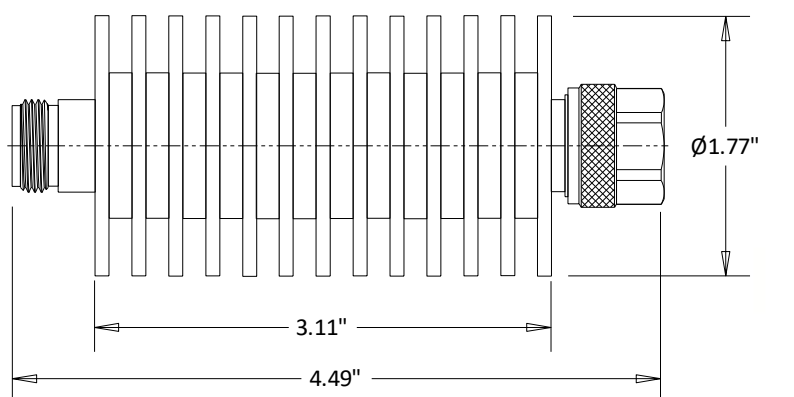


**DC - 8.0 GHz.**

**Model: C8N50-XX**



P3's Coaxial Attenuators are convection cooled and can handle full rated 50 watts CW and a peak power rating of 5,000 Watts (5µsec pulse @ 0.5% duty cycle at 25 degrees C, and have an operating temperature range of -55 to +125 degrees C. These attenuators are commonly used for absorbing power of a transmission line, expanding power range and controlling power levels. They may also be used for accurately measuring power or spectrum of RF & Microwave transmitters accompanied with a power meter VNA or spectrum analyzer. These fixed attenuators cover DC to 8.0 GHz. with attenuation values from 1 dB thru 40db with low VSWR and excellent attenuation flatness across the full bandwidth.



#### ENVIRONMENTAL SPECIFICATION

Thermal Shock: MIL-STD-202, Method 107, Condition B  
Moisture Resistance: MIL-STD-202, Method 106  
Salt Fog Test: MIL-STD-202, Method 101, Condition B  
Vibration: MIL-STD-202, Method 204, Condition D  
Shock: MIL-STD-202, Method 213, Condition I  
Connectors: MIL-STD-348B

| Attenuation Accuracy (Max) |         |         |         |
|----------------------------|---------|---------|---------|
|                            | 3-10 dB | 20 dB   | 30 dB   |
| DC-8 GHz                   | ±0.5 dB | ±0.6 dB | ±0.8 dB |

**P/N: Example:**

**C8N50 - XX**

Series

Attenuation  
Value

\*Specifications are subject to change without notice

## ELECTRICAL SPECIFICATION

Frequency Range: DC - 8.0 GHz.  
dB Values: 3, 6, 10, 20, 30, 40 dB (Standard)  
Impedance: 50 Ω  
Average Power: 50 W at 25° C, 0 W at +125° C  
Peak Power: 1,000 W (5µs pulse @ 0.5% duty cycle)  
VSWR: Operating 1.25 Max. @ 8.0 GHz.  
Temp.: -55° C to +125° C

## MECHANICAL SPECIFICATION

Body: Ternary Brass Alloy, Plated  
Contact Pin: BeCu, Gold Plated  
Female Socket: BeCu, Gold Plated  
Male Pin: Brass, Gold Plated  
Dielectric: PEI  
Storage Temp.: -55° C to +125° C

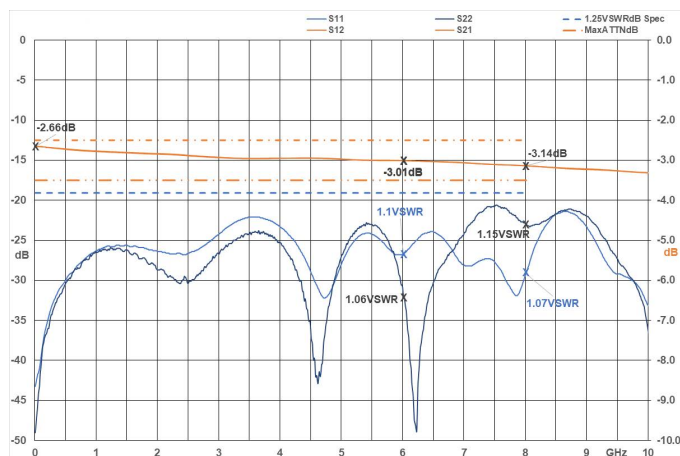
Custom dB Values are available upon request. Contact Sales: [sales@p3-rf.com](mailto:sales@p3-rf.com)



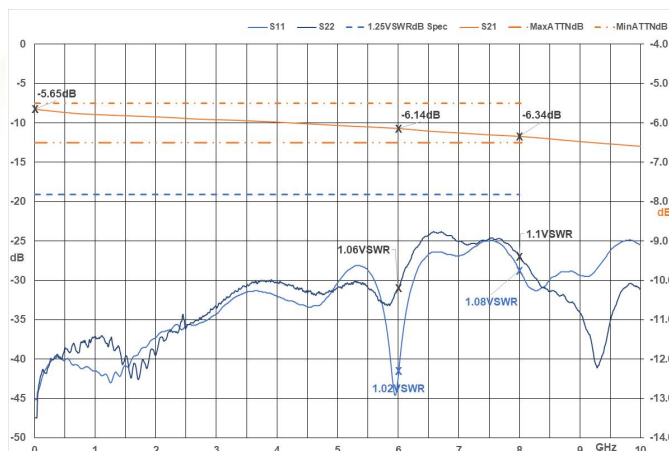


## TYPICAL TEST DATA

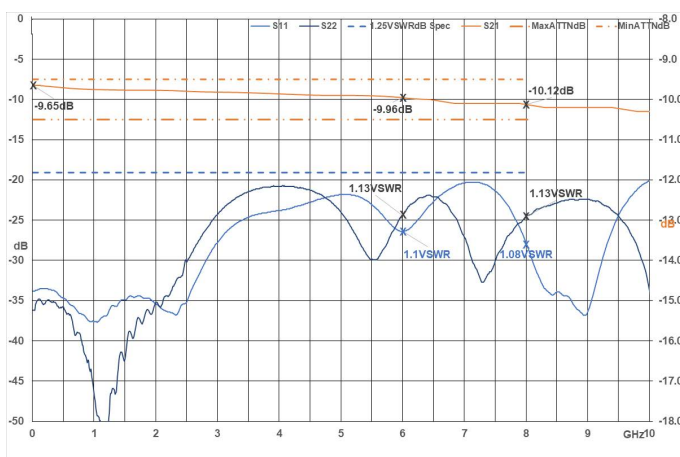
### 3 dB



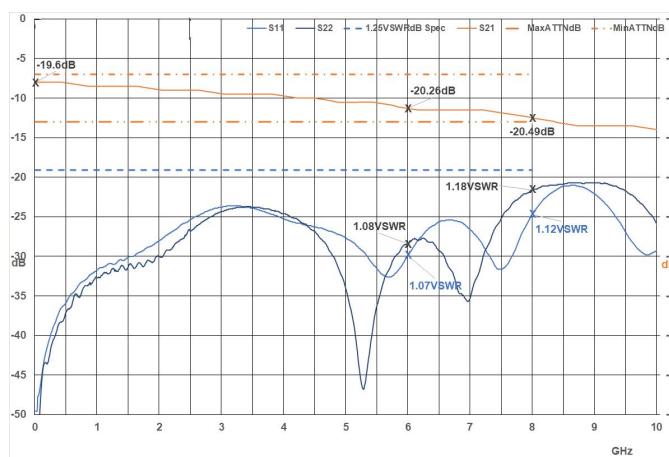
### 6 dB



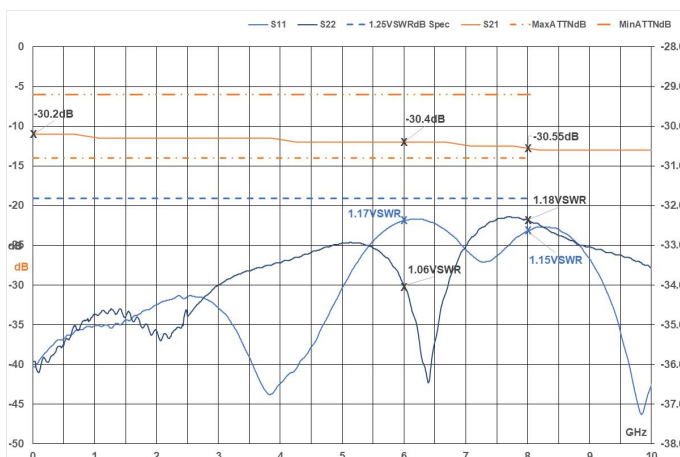
### 10 dB



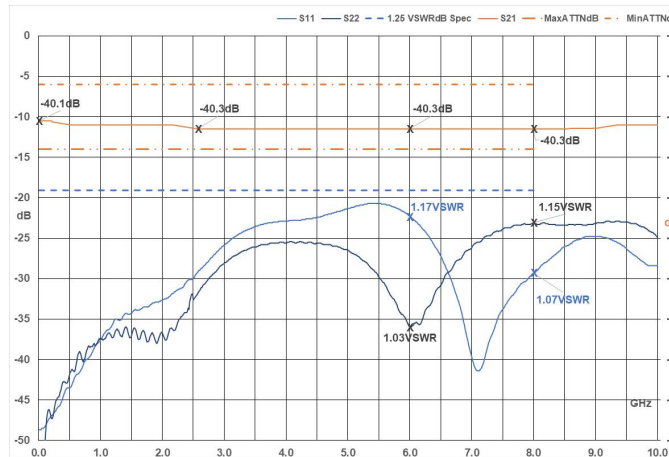
### 20 dB



### 30 dB



### 40 dB



Custom dB Values are available upon request. Contact Sales: [sales@p3-rf.com](mailto:sales@p3-rf.com)

