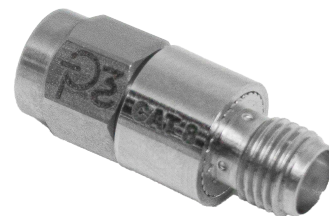
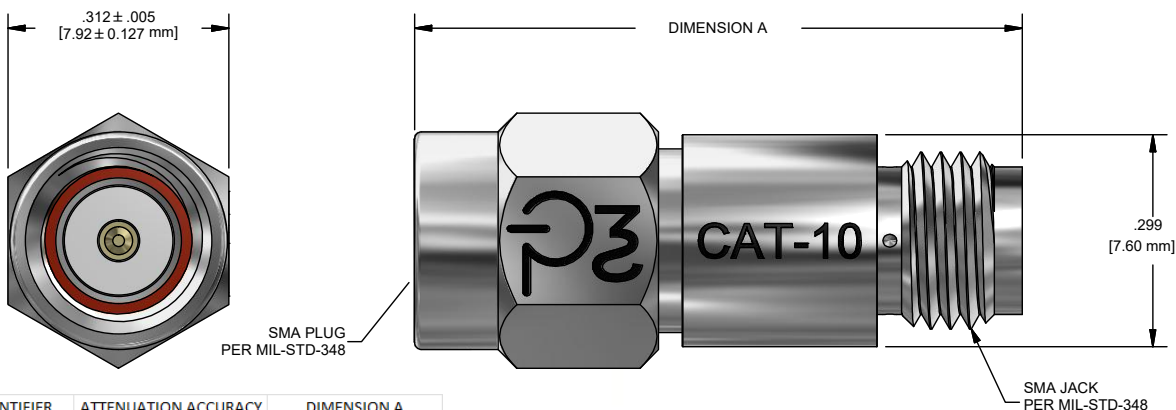




# DC - 18.0 GHz. Model: CAT-XX



P3's Coaxial Attenuators are convection cooled and can handle full rated 2 watts CW and a peak power rating of 250 Watts (5µsec pulse @ 0.05% 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 18.0 GHz. with attenuation values of 0 Thru 10dB (1dB increments), 12, 15, 20 & 30db with low VSWR and excellent attenuation flatness across the full bandwidth. Custom dB values are available upon request.



PART IDENTIFIER	ATTENUATION ACCURACY	DIMENSION A
ITEM NO	ATTENUATION	
CAT-0	0 dB ± 0.25	.858"/21.8mm
CAT-1	1 dB ± 0.25	.858"/21.8mm
CAT-2	2 dB ± 0.25	.858"/21.8mm
CAT-3	3 dB ± 0.25	.858"/21.8mm
CAT-4	4 dB ± 0.25	.858"/21.8mm
CAT-5	5 dB ± 0.25	.858"/21.8mm
CAT-6	6 dB ± 0.40	.858"/21.8mm
CAT-7	7 dB ± 0.25	.858"/21.8mm
CAT-8	8 dB ± 0.30	.858"/21.8mm
CAT-9	9 dB ± 0.30	.858"/21.8mm
CAT-10	10 dB ± 0.30	.858"/21.8mm
CAT-12	12 dB ± 0.50	.858"/21.8mm
CAT-15	15 dB ± 0.50	1.02/25.91mm
CAT-20	20 dB ± 0.75	1.02/25.91mm
CAT-30	30 dB ± 0.75	1.02/25.91mm

### 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

### P/N: Example:

**CAT** - **XX**  
 Series Attenuation Value

These are standard values. For custom values, please contact factory

\*Specifications are subject to change without notice

## ELECTRICAL SPECIFICATION

Frequency Range: DC - 18.0 GHz.  
 dB Values: 0 Thru 10 dB, 12, 15, 20 & 30 dB (Standard)  
 Impedance: 50 Ω  
 Average Power: 2 W at 25° C, Derated to 0.5 W at +125° C  
 Peak Power: 250 W (5µs pulse, .05% duty cycle)  
 VSWR: Operating <1.2:1 Typ., 1.35:1 Max.  
 Temp.: 55° C to +125° C

## MECHANICAL SPECIFICATION

Body: Passivated Stainless Steel  
 Contact Pin: BeCu, Gold Plated  
 Female Socket: BeCu, Gold Plated  
 Dielectric: PTFE  
 Weight: 38 grams  
 Storage Temp.: -55° C to +125° C

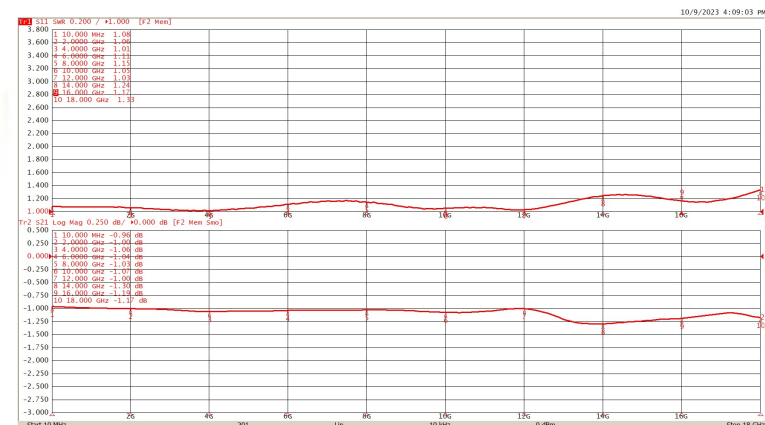
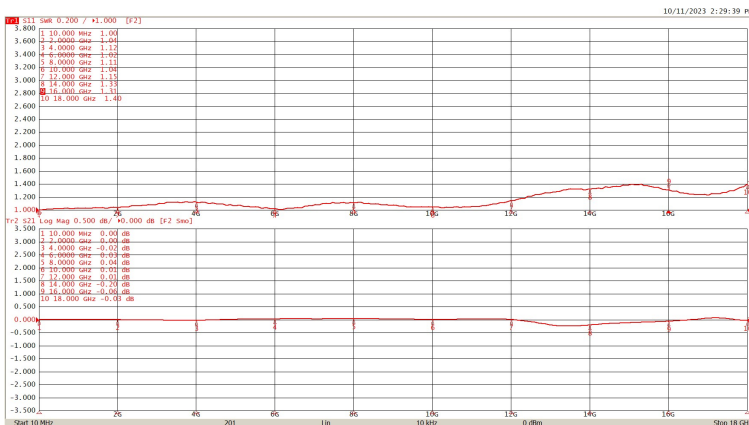
For more information Contact Sales: [sales@p3-rf.com](mailto:sales@p3-rf.com)



## CAT-0

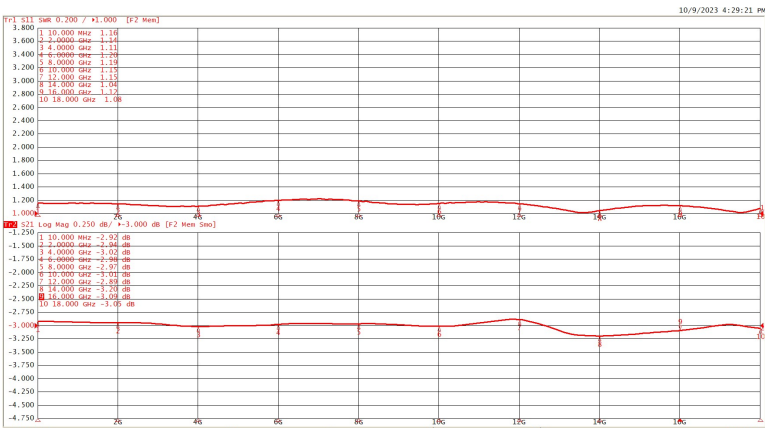
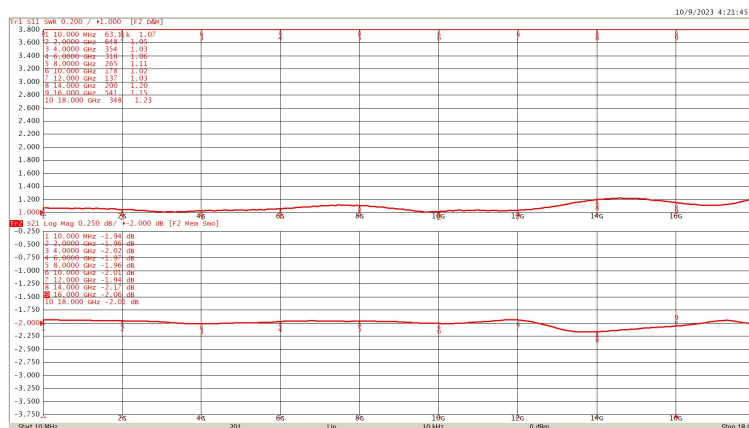
## TYPICAL TEST DATA

## CAT-1



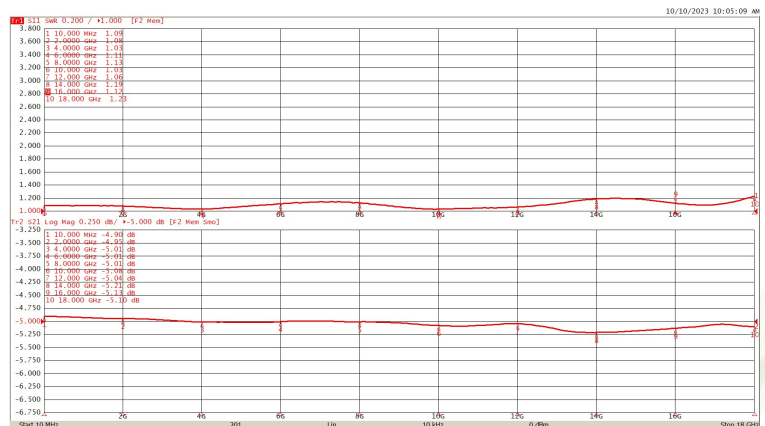
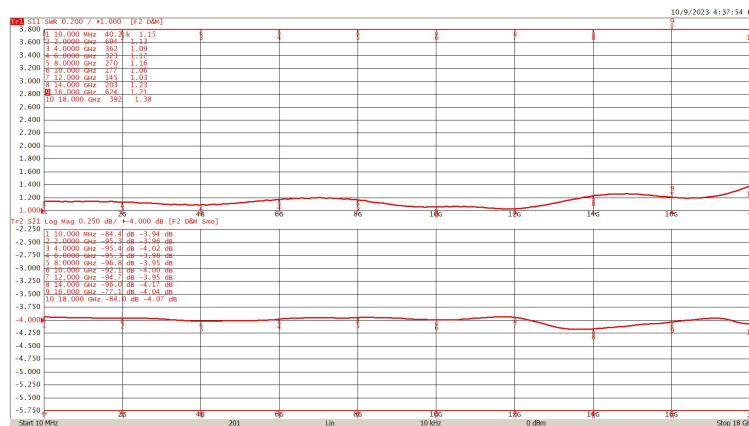
## CAT-2

## CAT-3



## CAT-4

## CAT-5



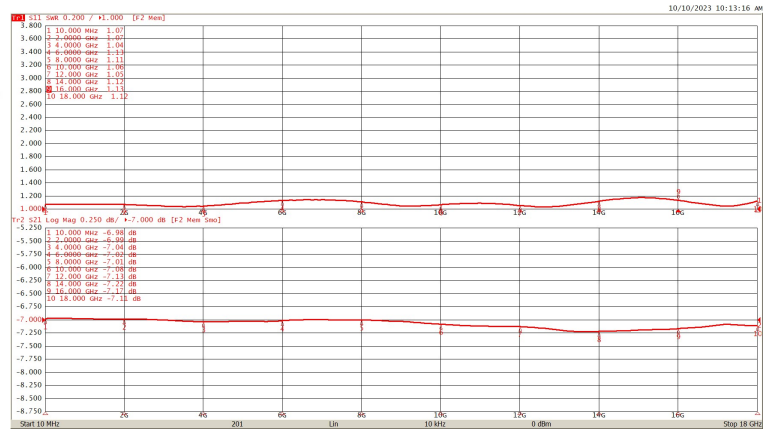
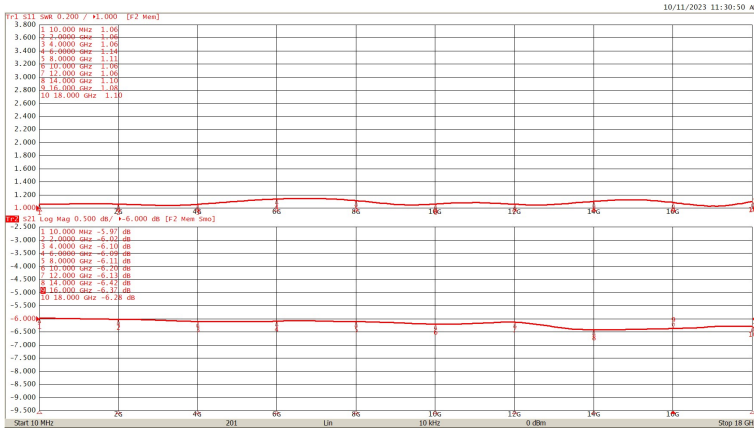
For more information Contact Sales: [sales@p3-rf.com](mailto:sales@p3-rf.com)



## CAT-6

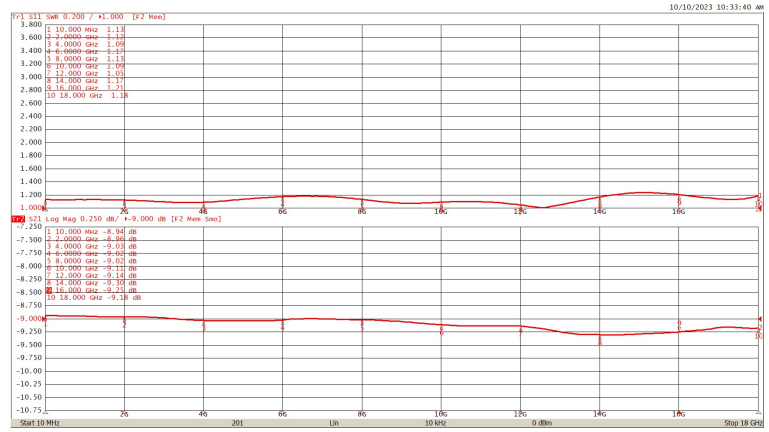
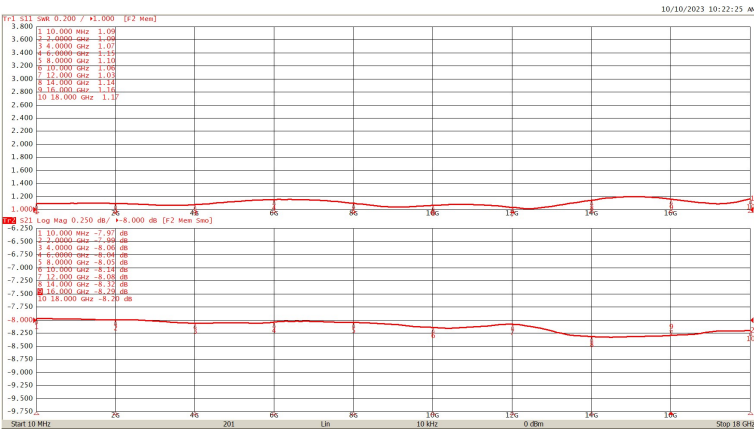
## TYPICAL TEST DATA

## CAT-7



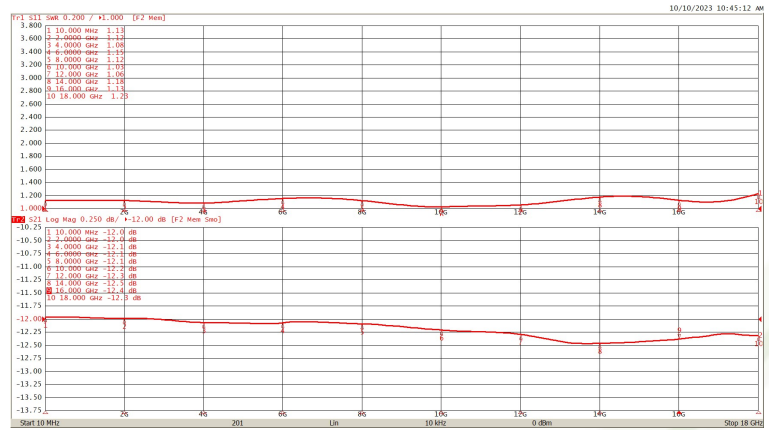
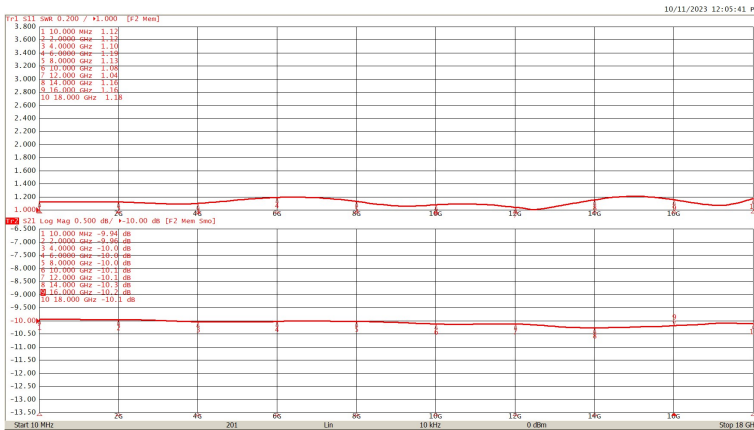
## CAT-8

## CAT-9



## CAT-10

## CAT-12



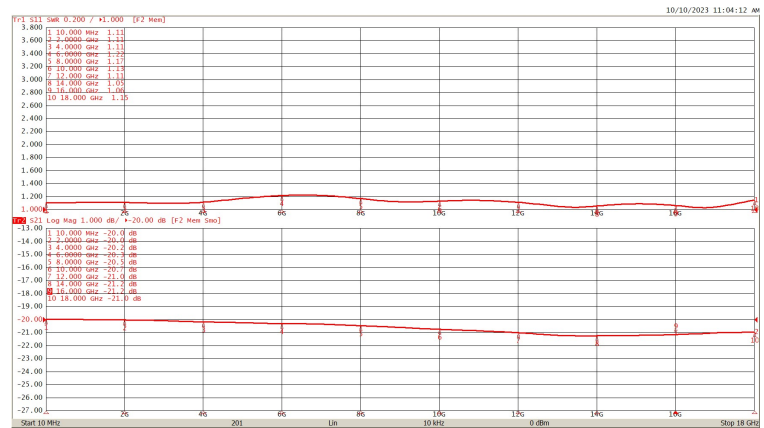
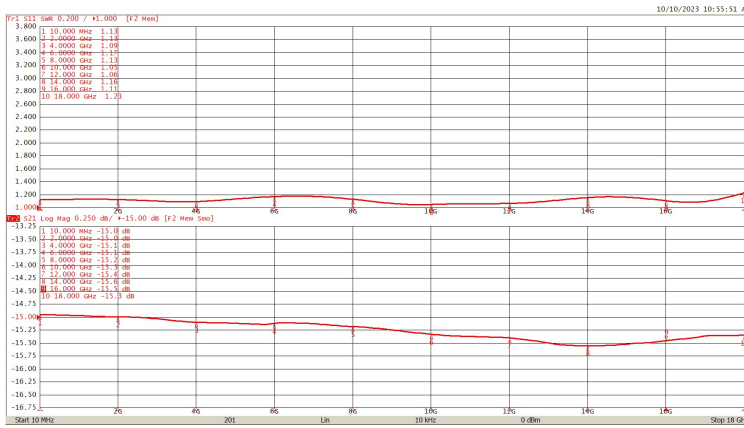
For more information Contact Sales: [sales@p3-rf.com](mailto:sales@p3-rf.com)



## CAT-15

## TYPICAL TEST DATA

## CAT-20



## ATTENUATOR ENGINEERING KIT P/N: CAT-EK



CAT ATTENUATOR SERIES ENGINEERING KITS ARE AVAILABLE FROM THE FACTORY. OR CAN BE PURCHASED ON OUR WEBSITE  
PLEASE CONTACT US AT SALES@P3-RF.COM

For more information Contact Sales: [sales@p3-rf.com](mailto:sales@p3-rf.com)