

# ATTENUATORS

## SMA

up to 18 GHz  
5 Watts

**MCE**  
**INMET**

MODELS: 18B5W-XX, 18B5W-XXF & 18B5W-XXM

### SPECIFICATIONS:

#### Electrical:

Frequency Range \_\_\_\_\_ DC - 18 GHz  
Standard Freq. Values \_\_\_\_\_ 4, 6, 12.4 & 18 GHz  
Standard dB Values\* \_\_\_\_\_ 0 - 10, 12, 15, 20, 30, 40, 50 & 60 dB  
In 1dB Increments

#### Attenuation Accuracy

0 - 6 dB \_\_\_\_\_  $\pm 0.3$  dB  
7 - 20 dB \_\_\_\_\_  $\pm 0.5$  dB  
21 - 30 dB \_\_\_\_\_  $\pm 0.75$  dB  
31 - 60 dB \_\_\_\_\_  $\pm 1.5$  dB

#### VSWR

DC - 4 GHz \_\_\_\_\_ 1.15:1 Max.  
4 - 8 GHz \_\_\_\_\_ 1.20:1 Max.  
8 - 12.4 GHz \_\_\_\_\_ 1.25:1 Max.  
12.4 - 18 GHz \_\_\_\_\_ 1.35:1 Max.

Input Power \_\_\_\_\_ 5 Watts Avg. @ 25°C  
DERATED LINEARLY TO 1 WATT @ +125°C

Peak Power \_\_\_\_\_ 250 Watts Max.  
(5uSec Pulse, .05% Duty Cycle)

Impedance \_\_\_\_\_ 50 Ohms

Operating Temp Range \_\_\_\_\_ -65°C to +125°C

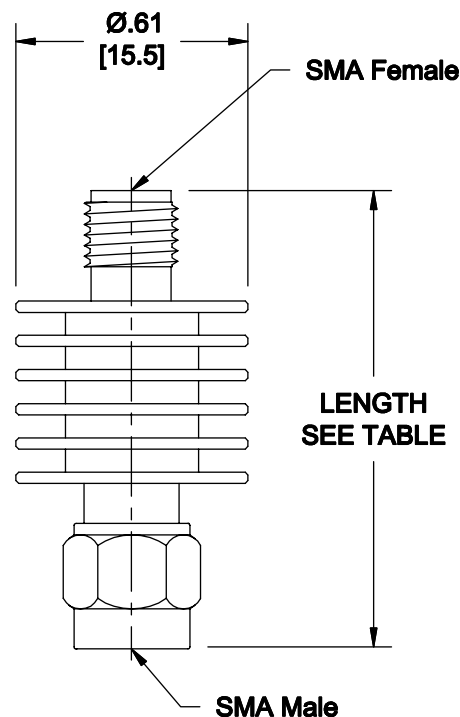
#### Mechanical:

SMA Connectors \_\_\_\_\_ Passivated Stainless Steel

Mates with MIL-STD-348

Conductors \_\_\_\_\_ Gold Plated Beryllium Copper

Housing \_\_\_\_\_ Anodized Aluminum



| Connector Configuration | LENGTH         |                  |                          |                  |
|-------------------------|----------------|------------------|--------------------------|------------------|
|                         | 0 - 30 & 40dB  |                  | 31 - 60 dB (Except 40dB) |                  |
|                         | Inches         | Millimeters      | Inches                   | Millimeters      |
| Male/Female             | 1.20 $\pm$ .05 | [30.5 $\pm$ 1.3] | 1.49 $\pm$ .05           | [37.8 $\pm$ 1.3] |
| Male/Male               | 1.33 $\pm$ .05 | [33.8 $\pm$ 1.3] | 1.61 $\pm$ .05           | [40.9 $\pm$ 1.3] |
| Female/Female           | 1.06 $\pm$ .05 | [26.9 $\pm$ 1.3] | 1.35 $\pm$ .05           | [34.3 $\pm$ 1.3] |

### HOW TO ORDER:

Model Number: **XXB5W-XXY**

Freq. Range

4 = DC - 4 GHz  
6 = DC - 6 GHz  
12 = DC - 12.4 GHz  
18 = DC - 18 GHz

Connector Configuration

= Male/Female  
F = Fem/Fem  
M = Male/Male

dB Value

#### Ordering Examples:

Model Number: **4B5W-20**  
DC - 4 GHz, 20 dB; SMA - Male/Fem

Model Number: **18B5W-06F**  
DC - 18 GHz, 6 dB; SMA - Fem/Fem

Model Number: **12B5W-03M**  
DC - 12.4 GHz, 3 dB; SMA - Male/Male

Note: Dimensions in Brackets are Expressed in Millimeters and are for Reference Only.

\*Other dB values are available. Units that operate over a more specific frequency band and/or offer very low return loss (VSWR) are also available.

XXB5W-ATT; REV K