

# Attenuators SMA

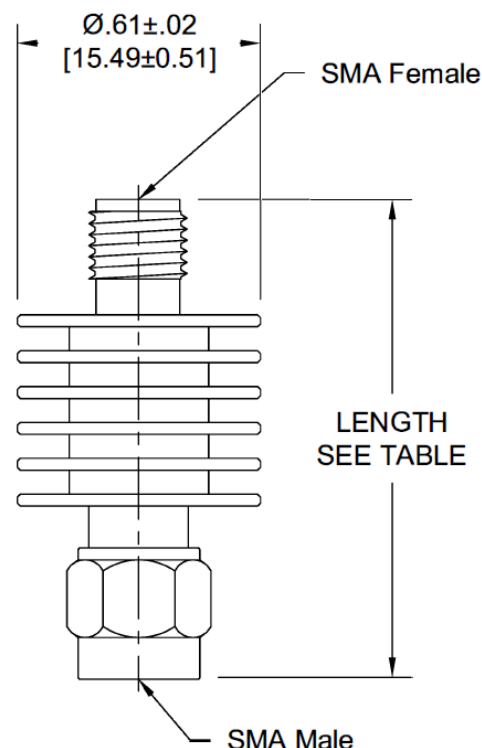
**up to 18 GHz  
5 Watts**

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

## Technical Specifications

| Parameter             | Value                                                                  |
|-----------------------|------------------------------------------------------------------------|
| <i>Electrical</i>     |                                                                        |
| Frequency Range       | DC – 18 GHz                                                            |
| Standard dB Values    | 0-10, 12, 15, 20, 30, & 40 dB<br>In 1 dB increments                    |
| Attenuation Accuracy  |                                                                        |
| 0 - 6 dB              | ±0.3 dB                                                                |
| 7 - 20 dB             | ±0.5 dB                                                                |
| 21 - 30 dB            | ±0.75 dB                                                               |
| 40 dB                 | ±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 Average @ 25°C<br><i>Derated linearity to 1 watts @ +125°C</i> |
| Impedance             | 50 Ohms                                                                |
| Operation Temp. Range | -65°C to +125°C                                                        |

| Parameter                                | Value                        |
|------------------------------------------|------------------------------|
| <i>Mechanical</i>                        |                              |
| SMA Connectors<br>Mates with MIL-STD-348 | Passive Stainless Steel      |
| Conductors                               | Gold Plated Beryllium Copper |
| Housing                                  | Anodized Aluminum            |



| Connector Configuration   | Inches     | Millimeters  |
|---------------------------|------------|--------------|
| Male/Female – 18B5W-XX    | 1.20 ± .05 | [30.5 ± 1.3] |
| Male/Male – 18B5W-XXM     | 1.33 ± .05 | [33.8 ± 1.3] |
| Female/Female – 18B5W-XXF | 1.06 ± .05 | [26.9 ± 1.3] |

## How To Order

Model #: 18B5W-XXY

dB Value  Connector Configuration  
 = Male/Female  
 F = Female/Female  
 M = Male/Male

## Order Example

Model number: 18B5W-06F  
 DC-18 GHz, 6 dB, SMA female/female

\*\*Dimensions in brackets are expressed in millimeters and are for reference only.

sales@am.spectrumcontrol.com

Approved for Release: November 2024/Brown

Spectrum Control reserves the right to make changes to datasheets at any time without notice.