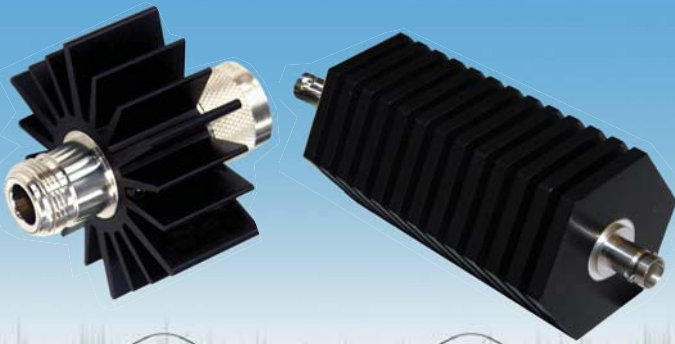


# Convection Cooled Attenuators



- ▶ Self cooling design, needs no cooling plate.
- ▶ Frequencies up to 18 GHz.
- ▶ Fully shielded against production of extraneous radiation.
- ▶ Attenuator require no AC power.
- ▶ Rugged construction.
- ▶ Broadband operation.
- ▶ Other attenuation values available upon request.
- ▶ Models to cover all LTE frequencies.

|                            |                        |
|----------------------------|------------------------|
| <b>Coolant Method</b>      | Dry, Convection Cooled |
| <b>Impedance</b>           | 50 Ohm                 |
| <b>Operating Position</b>  | Any                    |
| <b>Ambient Temperature</b> | -40°C to 40°C          |
| <b>PIM</b>                 | -110 dBc Min.          |

|                                    |                     |
|------------------------------------|---------------------|
| <b>AC Power</b>                    | None*               |
| <b>Humidity</b>                    | 95% non-condensing  |
| <b>Standard Attenuation Values</b> | 3, 6, 10, 20, 30 dB |

|               | Power Rating | Connector                  | VSWR & Frequency Range                                                                                        | Dimensions (LxWxH)                     | Weight            | Finish                  |
|---------------|--------------|----------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------|-------------------------|
| <b>2-A</b>    | 2 W          | BNC, N                     | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 4 GHz                                                             | 2.4" x 0.8" Dia.<br>61 x 21 Dia. mm    | 3.1 oz.<br>88 g   | Tri-Alloy               |
| <b>2-A</b>    | 2 W          | SMA                        | 1.15:1 from DC to 2.5 GHz<br>1.30:1 from 2.5 to 6 GHz                                                         | 0.9" x 0.4" Dia.<br>23 x 11 Dia. mm    | 1.2 oz.<br>34 g   | Stainless Steel         |
| <b>2-6A</b>   | 2 W          | N                          | 1.25:1 from DC to 6 GHz                                                                                       | 1.8" x 0.9" Dia.<br>46 x 23 Dia. mm    | 2.5 oz.<br>71 g   |                         |
| <b>2-18A</b>  | 2 W          | SMA, N                     | 1.15:1 from DC to 4 GHz<br>1.20:1 from 4 to 8 GHz<br>1.25:1 from 8 to 12.4 GHz<br>1.35:1 from 12.44 to 18 GHz | 1.8" x 0.9" Dia.<br>46 x 23 Dia. mm    | 2.5 oz.<br>71 g   |                         |
| <b>3-A</b>    | 3 W          | BNC, TNC                   | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 4 GHz                                                             | 1.5" x 0.6" Dia.<br>39 x 16 Dia. mm    | 3.1 oz.<br>88 g   | Tri-Alloy               |
| <b>5-A</b>    | 5 W          | BNC, N, TNC                | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 4 GHz                                                             | 2.6" x 0.8" Dia.<br>67 x 21 Dia. mm    | 3.1 oz.<br>88 g   | Stainless Steel         |
| <b>5-6A</b>   | 5 W          | N                          | 1.25:1 from DC to 6 GHz                                                                                       | 2.4" x 0.9" Dia.<br>61 x 23 Dia. mm    | 3.0 oz.<br>86 g   |                         |
| <b>5-18A</b>  | 5 W          | SMA, N                     | 1.15:1 from DC to 4 GHz<br>1.25:1 from 4 to 12.4 GHz<br>1.35:1 from 12.4 to 18 GHz                            | 2.5" x 0.9" Dia.<br>64 x 23 Dia. mm    | 3.5 oz.<br>100 g  |                         |
| <b>10-A</b>   | 10 W         | SMA, BNC, N, TNC           | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 4 GHz                                                             | 2.8" x 2.3" Dia.<br>72 x 59 Dia. mm    | 5.0 oz.<br>142 g  | Black Anodized Aluminum |
| <b>10-6A</b>  | 10 W         | SMA, N                     | 1.20:1 from DC to 4 GHz<br>1.30:1 from 4 to 6 GHz                                                             | 2.5" x 1.1" Dia.<br>64 x 28 Dia. mm    | 3.5 oz.<br>100 g  | Stainless Steel         |
| <b>10-18A</b> | 10 W         | N                          | 1.20:1 from DC to 4 GHz<br>1.30:1 from 4 to 12.4 GHz<br>1.45:1 from 12.4 to 18 GHz                            | 2.5" x 0.9" Dia.<br>64 x 23 Dia. mm    | 3.5 oz.<br>100 g  |                         |
| <b>25-A</b>   | 25 W         | SMA, BNC, 7/16 DIN, N, TNC | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 4 GHz                                                             | 5.3" x 2.3" Dia.<br>135 x 59 Dia. mm   | 9.0 oz.<br>256 g  | Black Anodized Aluminum |
| <b>25-6A</b>  | 25 W         | N                          | 1.20:1 from DC to 6 GHz                                                                                       | 4.2" x 2.3" x 2.3"<br>107 x 59 x 59 mm | 13.5 oz.<br>383 g | Stainless Steel         |
| <b>25-18A</b> | 25 W         | N                          | 1.20:1 from DC to 4 GHz<br>1.30:1 from 4 to 12.4 GHz<br>1.40:1 from 12.4 to 18 GHz                            | 4.2" x 2.3" x 2.3"<br>107 x 59 x 59 mm | 13.5 oz.<br>383 g |                         |

\*1500W models require 115/230V AC Inputs

# Convection Cooled Attenuators

## MODEL NOMENCLATURE

### Power Rating (Watts)

### Product Type A, SA, WA – Attenuator

### Connector Gender M/F – Male/Female F/F – Female/ Female

### Connectors\*\*

A - SMA  
B - BNC  
N - N  
T - TNC  
E - IEC 7/16

### Attenuation Value in dB

03 – 3 dB  
06 – 6 dB  
10 – 10 dB  
20 – 20 dB  
30 – 30 dB

\*\*Call for custom connector options not shown in this catalog

|                   | Power Rating | Connector                  | VSWR & Frequency Range                                                             | Dimensions (LxWxH)                         | Weight               | Finish                  |
|-------------------|--------------|----------------------------|------------------------------------------------------------------------------------|--------------------------------------------|----------------------|-------------------------|
| <b>50-A</b>       | 50 W         | SMA, BNC, 7/16 DIN, N, TNC | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 3.0 GHz                                | 6.4" x 2.3" Dia.<br>163 x 59 Dia. mm       | 1.0 lbs.<br>454 g    | Black Anodized Aluminum |
| <b>50-6A</b>      | 50 W         | N                          | 1.20:1 from DC to 6 GHz                                                            | 4.7" x 3.0" x 3.0"<br>120 x 77 x 77 mm     | 1.7 lbs.<br>772 g    | Stainless Steel         |
| <b>50-18A</b>     | 50 W         | N                          | 1.25:1 from DC to 6 GHz<br>1.35:1 from 6 to 12.4 GHz<br>1.45:1 from 12.4 to 18 GHz | 4.7" x 3.0" x 3.0"<br>120 x 77 x 77 mm     | 1.7 lbs.<br>772 g    | Stainless Steel         |
| <b>75-A</b>       | 75 W         | SMA, BNC, 7/16 DIN, N, TNC | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 7.3" x 2.3" Dia.<br>186 x 59 Dia. mm       | 1.6 lbs.<br>726 g    | Black Anodized Aluminum |
| <b>100-A</b>      | 100 W        | SMA, BNC, 7/16 DIN, N, TNC | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 7.3" x 2.6" x 6.4"<br>186 x 67 x 163 mm    | 3.6 lbs.             | Black Anodized Aluminum |
| <b>100-6A</b>     | 100 W        | N                          | 1.20:1 from DC to 2 GHz<br>1.35:1 from 2 to 4 GHz<br>1.40:1 from 4 to 6 GHz        | 6.4" x 2.7" x 3.8"<br>163 x 69 x 97 mm     | 2.4 lbs.<br>1.7 kg   | Stainless Steel         |
| <b>100-SA</b>     | 100 W        | BNC, 7/16 DIN, N, TNC      | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 8.4" x 2.8" x 2.8"<br>214 x 72 x 72 mm     | 3.0 lbs.<br>1.4 kg   | Black Anodized Aluminum |
| <b>150-A</b>      | 150 W        | BNC, 7/16 DIN, N, TNC      | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 6.7" x 2.6" x 11.9"<br>171 x 67 x 303 mm   | 6.6 lbs.<br>3.0 kg   |                         |
| <b>150-SA</b>     | 150 W        | SMA, BNC, 7/16 DIN, N      | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 9.1" x 4.0" x 5.0"<br>232 x 102 x 127 mm   | 5.5 lbs.<br>2.5 kg   |                         |
| <b>150-WA</b>     | 150 W        | BNC, 7/16 DIN, N, TNC      | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 5.6" x 5.4" x 4.3"<br>143 x 138 x 110 mm   | 2.5 lbs.<br>1.2 kg   |                         |
| <b>300-A</b>      | 300 W        | BNC, 7/16 DIN, N, TNC      | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 7.3" x 5.4" x 10.9"<br>186 x 138 x 277 mm  | 12.0 lbs.<br>5.5 kg  |                         |
| <b>300-WA</b>     | 300 W        | BNC, 7/16 DIN, N, TNC      | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 9.0" x 5.4" x 4.8"<br>229 x 138 x 122 mm   | 4.6 lbs.<br>2.1 kg   |                         |
| <b>500-WA</b>     | 500 W        | 7/16 DIN, N                | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 12.4" x 5.4" x 4.8"<br>315 x 138 x 122 mm  | 7.9 lbs.<br>3.6 kg   |                         |
| <b>600-A</b>      | 600 W        | 7/16 DIN, N                | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 12.7" x 9.4" x 9.6"<br>323 x 239 x 244 mm  | 21.5 lbs.<br>9.8 kg  |                         |
| <b>1000-A***</b>  | 1000 W       | 7/16 DIN, N                | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 13.6" x 12.8" x 9.6"<br>346 x 326 x 244 mm | 26.5 lbs.<br>12.0 kg |                         |
| <b>1000-WA***</b> | 1000 W       | 7/16 DIN, N                | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 19.6" x 10.6" x 4.8"<br>498 x 270 x 122 mm | 26.5 lbs.<br>12.0 kg |                         |
| <b>1500-WA***</b> | 1500 W       | 7/16 DIN, N                | 1.10:1 from DC to 1 GHz<br>1.25:1 from 1 to 2.4 GHz                                | 20.4" x 10.7" x 5.9"<br>519 x 272 x 150 mm | 30.0 lbs.<br>13.6 kg |                         |

\*\*\*Note: attenuators 1000 W and above are not available in attenuation values less than 10 dB



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