

UHF BI-DIRECTIONAL AMPLIFIER (BDA)

380-512 MHz

UBDA-3845/4551-SERIES

Our BDA system is designed for high standards with government and industrial clients in mind. The solution can be customized for unique client requirements.

Reliable RF coverage for Public Safety and Utility clients in 380-512 MHz offered for applications including hotel parking garages, underground mining facilities, shopping malls, hospitals, government buildings, subway stations and tunnels.

Available in rack mount, NEMA stainless steel or painted steel NEMA enclosures. Compliant to Govt. standards: FCC WDM-UBDA 4551; IC 7755A-UBDA4551. Only sold as part of a complete BDA system.



Electrical Specifications

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|---|---|
| Frequency Range, MHz | 380-512 |
| Passbands | 2 (4 passband version available) |
| Guard Band, MHz | 2-3 |
| Window Bandwidth, MHz (configured by channel filters) | 2-3 |
| Automatic Level Control (ALC), dB | Yes (30 dB) |
| Maximum Gain, dB | + 70 dB Typical |
| Output Level / Input Attenuator Range, dB | 0 to 15 in 1 dB steps / 0 to 30 in 2 dB steps |
| 3rd Order Output Intercept Point, dBm | +48 Typical |
| Output 1 dB Compression Point, dBm | +38 Typical |
| Noise Figure, Typical (with filters), dB | 5.5 |
| Uplink Max Output (Composite), dBm | +29 |
| Downlink Max Output (Composite), dBm | +29 |
| Nominal Impedance, Ohms | 50 |
| VSWR | 1.5:1 |
| AC Power Input, Volts | 117 to 260 |
| Temperature Range, °F (°C) | -4 to 131 (-20 to +55) |
| Input / Output Connectors | N Female |

Mechanical Specifications

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|--------------------------------|--|
| Enclosure | NEMA 4 Painted Steel |
| Dimensions in H, W, D | 24 x 16 x 11.5 (Large Enclosure) ; 14 x 8 x 7 (Attached Small Enclosure) |
| Weight, lbs (kg) (Approximate) | 100 (45) |