# BLWA 80 ... 4000 MHz
Solid State Amplifiers

BONN Elektronik
YOUR ULTIMATE RF POWER SOURCE

## STANDARD MODELS

| Model | Frequency Range | Output Power $P_N$ min / typ W | Gain min / typ dB | Harmonics 2nd / 3rd dBc | Line Power VA | Dimensions (H, D) 19"-System | Weight kg |
|---|---|---|---|---|---|---|---|
| BLWA 0840-250/100/60/30D | 80 ... 4000 MHz | | | | 1000 | 6 HU, 630 mm | 62 |
| | 80 ... 400 MHz | 250 / 300 | 54 / 56 ±2 | 20 / 15 | | | |
| | 400 ... 1000 MHz | 100 / 150 | 50 / 52 ±2 | 20 / 20 | | | |
| | 1000 ... 2000 MHz | 60 / 70 | 47.8 / 50 ±2 | 20 / 20 | | | |
| | 2000 ... 4000 MHz | 30 / 35 | 44.8 / 47 ±2 | 20 / 20 | | | |

1 HU = 44.45 mm

## STANDARD SPECIFICATIONS

| | |
|---|---|
| **Input Power:** | 0 dBm (1 mW) max. |
| **Overdrive Protection:** | up to +10 dBm for no damage |
| **Input Impedance:** | 50 Ohm nominal |
| **Output Impedance:** | 50 Ohm nominal |
| **Input VSWR:** | <2:1 typ. |
| **Load VSWR:** | infinite for no damage (100% mismatch tolerant)<br>$P_N$ -0.5 dB min. at VSWR 2:1 |
| **Spurious (at $P_N$):** | -60 dBc min. (excluding harmonics) |
| **Class of Operation:** | A-linear or AB-linear |

## GENERAL

| | |
|---|---|
| **RF Input:** | N-f, standard on rear panel |
| **RF Output:** | N-f, standard on rear panel |
| **Mains Supply:** | 100 ... 240 V AC ±10%, 47 ... 63 Hz |
| **Elapsed Time Meter:** | via status display |
| **Ambient Temperature:** | 0 ... +45 °C |
| **Storage Temperature:** | -20 ... +85 °C |
| **Relative Humidity:** | up to 95% (non-condensing) |
| **Operating Altitude:** | up to 2000 m above sea level |
| **Vibration and Shock:** | MIL-STD-810 G |
| **Cooling:** | forced air with integral blower<br>air intake from front, air exhaust at rear |

## OPTIONS

A) RF-Sample Ports
B) External Dual Directional Coupler
C) IEEE-488.2 GPIB Remote Control
I) 3x 208 V AC / 60 Hz
L) LAN Remote Control
S) Internal RF Switching Unit

D) Front Panel RF Connectors
E) RF Power Indication (digital)
F) Gain Adjustment
H) DC Supply
R) RS-232C/RS-485 Remote Control
U) USB Remote Control
W) Liquid Cooling
X) External Control of other Amplifiers