

## STANDARD MODELS

| Model                 | Frequency Range   | Output Power<br>$P_N$ min / typ<br>W | Gain<br>min / typ<br>dB | Harmonics<br>2nd / 3rd<br>dBc | Line Power<br>VA | Dimensions<br>(H, D)<br>19"-System | Weight<br>kg |
|-----------------------|-------------------|--------------------------------------|-------------------------|-------------------------------|------------------|------------------------------------|--------------|
| BLWA 0830-250/100/80D | 80 ... 3000 MHz   |                                      |                         |                               | 1000             | 4 HU, 630 mm                       | 38           |
|                       | 80 ... 400 MHz    | 250 / 300                            | 54 / 56 ±2              | 20 / 15                       |                  |                                    |              |
|                       | 400 ... 1000 MHz  | 100 / 150                            | 50 / 52 ±2              | 20 / 20                       |                  |                                    |              |
|                       | 1000 ... 3000 MHz | 80 / 100                             | 49 / 51 ±2              | 12 / 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) |
|                       | $P_N$ -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                   | I) 3x 208 V AC / 60 Hz           |
| B) External Dual Directional Coupler | L) LAN Remote Control            |
| C) IEEE-488.2 GPIB Remote Control    | S) Internal RF Switching Unit    |
| D) Front Panel RF Connectors         | R) RS-232C/RS-485 Remote Control |

# BLWA 80 ... 3000 MHz Solid State Amplifiers

E) RF Power Indication (digital)  
F) Gain Adjustment  
H) DC Supply

U) USB Remote Control  
W) Liquid Cooling  
X) External Control of other Amplifiers