

## 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 0810-100 | 80 ... 1000 MHz | 100 / 120                            | 50 / 52 ±2              | 20 / 20                       | 650              | 3 HU, 430 mm                       | 18           |

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, 47 ... 63 Hz  |
| Elapsed Time Meter:  | via status display  |
| Ambient Temperature: | 0 ... +45 °C  |
| Storage Temperature: | -25 ... +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<br>Option W: Liquid cooling<br>External heat exchanger required |

## OPTIONS

|                                      |   |
|--------------------------------------|---|
| A) RF-Sample Ports                   | L) LAN Remote Control                     |
| B) External Dual Directional Coupler | P) Precise RMS RF Power Sensor (internal) |
| C) IEEE-488.2 GPIB Remote Control    | R) RS-232C/RS-485 Remote Control          |
| D) Front Panel RF Connectors         | S) Internal RF Switching Unit             |
| E) RF Power Indication (digital)     | U) USB Remote Control                     |
| F) Gain Adjustment                   | W) Liquid Cooling                         |

# BLWA 80 ... 1000 MHz Solid State Amplifiers

H) DC Supply  
I) 3x 208 V AC / 60 Hz

X) External Control of other Amplifiers