

# BLWA

## 80 ... 4000 MHz

## Solid State

### Standard Models

| Model                    | Frequency Range  | Output Power<br>$P_N$ min<br>W | Gain<br>min / typ<br>dB | Harmonics<br>2nd / 3rd<br>dBc | Line Power<br>W | Dimensions<br>(H, D)<br>19"-System | Weight<br>kg |
|--------------------------|------------------|--------------------------------|-------------------------|-------------------------------|-----------------|------------------------------------|--------------|
| BLWA 084O-160/100/60/30D | 80 ... 4000 MHz  | 160/100/60/30                  |                         |                               | 1200            | 6 HU, 630 mm                       | 65           |
|                          | 80 ... 400 MHz   | 160                            | 54 / 56 $\pm$ 2         | 20 / 15                       |                 |                                    |              |
|                          | 400 ... 1000 MHz | 100                            | 50 / 52 $\pm$ 2         | 20 / 20                       |                 |                                    |              |
|                          | 1 ... 2 GHz      | 60                             | 47.8 / 50 $\pm$ 2       | 20 / 20                       |                 |                                    |              |
|                          | 2 ... 4 GHz      | 30                             | 44.8 / 47 $\pm$ 2       | 20 / 20                       |                 |                                    |              |

### 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:            | 2:1 max. for $P_N$ -0.5 dB;<br>infinite for no damage |
| Spurious (at $P_N$ ): | -50 dBc typ. (excluding harmonics)                    |
| Class of Operation:   | A linear or<br>A-B linear                             |

### General:

|            |                                                   |
|------------|---------------------------------------------------|
| RF Input:  | N-f; standard on rear panel                       |
| RF Output: | standard on rear panel<br>N-f ( $P_N$ up to 1 kW) |

|                      |                                                                                                                                                                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mains Supply:        | 7/16-f ( $P_N > 1$ kW)<br>13/30-f or 1 5/8" EIA ( $P_N > 2$ kW)<br>Line Power: <1000 W<br>100 ... 240 V AC $\pm 10\%$ / 47 ... 63 Hz<br>Line Power: 1000 ... 3000 W<br>200 ... 240 V AC $\pm 10\%$ / 47 ... 63 Hz<br>Line Power: >3000 W<br>3x 400 V AC $\pm 10\%$ / 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 F                                                                                                                                                                                                                                                                     |
| Cooling:             | forced air with integral blower,<br>air intake from front air exhaust at rear                                                                                                                                                                                                     |

#### Options:

|                                      |                           |
|--------------------------------------|---------------------------|
| A) RF Monitor Outputs                | F) Gain Adjustment        |
| B) External Dual Directional Coupler | H) DC-Supply              |
| C) IEEE-488.2 GPIB Remote Control    | I) 3x 200 V AC / 60 Hz    |
| D) Front Panel RF-Connectors         | R) RS-232C Remote Control |
| E) Power Indication (digital)        | U) USB Remote Control     |

Specifications are subject to change without notice



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