

## 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 0210-1            | 20 ... 1000 MHz  | 1 / 1.5                              | 30 / 32 ±2              | 20 / 20                       | 75               | 2 HU, 430 mm                       | 11           |
| BLWA 0210-3            | 20 ... 1000 MHz  | 3 / 3.5                              | 34.8 / 37 ±2            | 20 / 20                       | 100              | 2 HU, 430 mm                       | 11           |
| BLWA 0210-5            | 20 ... 1000 MHz  | 5 / 6                                | 37 / 39 ±2              | 20 / 20                       | 300              | 2 HU, 430 mm                       | 12           |
| BLWA 0210-10           | 20 ... 1000 MHz  | 10 / 12                              | 40 / 42 ±2              | 20 / 20                       | 300              | 2 HU, 430 mm                       | 12           |
| BLWA 0210-30           | 20 ... 1000 MHz  | 30 / 35                              | 44.8 / 47 ±2            | 20 / 20                       | 300              | 2 HU, 430 mm                       | 13           |
| BLWA 0210-40           | 20 ... 1000 MHz  | 40 / 45                              | 46 / 48 ±2              | 20 / 20                       | 300              | 2 HU, 430 mm                       | 13           |
| BLWA 0210-50           | 20 ... 1000 MHz  | 50 / 60                              | 47 / 50 ±3              | 20 / 12                       | 300              | 2 HU, 430 mm                       | 13           |
| BLWA 0210-100          | 20 ... 1000 MHz  | 100 / 120                            | 50 / 52 ±2              | 20 / 20                       | 900              | 3 HU, 630 mm                       | 26           |
| BLWA 0210-150          | 20 ... 1000 MHz  | 150 / 200                            | 51.8 / 54 ±2            | 20 / 20                       | 2100             | 4 HU, 630 mm                       | 40           |
| BLWA 0210-300          | 20 ... 1000 MHz  | 300 / 330                            | 54.8 / 57 ±2            | 20 / 15                       | 3000             | 4 HU, 630 mm                       | 42           |
| BLWA 0210-500          | 20 ... 1000 MHz  | 500 / 550                            | 57 / 59 ±2              | 20 / 15                       | 4000             | 8 HU, 630 mm                       | 58           |
| BLWA 0210-350/200/100D | 20 ... 1000 MHz  |                                      |                         |                               | 1000             | 8 HU, 630 mm                       | 60           |
|                        | 20 ... 100 MHz   | 350 / 400                            | 55.4 / 58 ±2            | 20 / 15                       |                  |                                    |              |
|                        | 100 ... 400 MHz  | 200 / 220                            | 53 / 55 ±2              | 20 / 15                       |                  |                                    |              |
|                        | 400 ... 1000 MHz | 100 / 120                            | 50 / 52 ±2              | 20 / 20                       |                  |                                    |              |

For individual data sheets, please click on the above model name

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 $P_N$ ): | -50 dBc typ. (excluding harmonics)  |
| Class of Operation:   | A linear or A-B linear  |

## GENERAL

|               |  |
|---------------|--|
| RF Input:     | N-f, standard on rear panel                |
| RF Output:    | standard on rear panel                     |
|               | $P_N$ up to 1 kW      N-f                  |
|               | $P_N$ >1 kW          7-16-f                |
|               | $P_N$ >2 kW          13-30-f or 1 5/8" EIA |
| Mains Supply: | Line Power:                                |

# BLWA 20 ... 1000 MHz Solid State Amplifiers

|                      |   |                       |
|----------------------|---|-----------------------|
|                      | <1000 VA  | 100 ... 240 V AC ±10% |
|                      | 1000 ... 3000 VA  | 200 ... 240 V AC ±10% |
|                      | >3000 VA  | 3x 400 V AC ±10%      |
| 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

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|                                      |   |
|--------------------------------------|---|
| 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 Remote Control               |
| E) RF Power Indication (digital)     | U) USB Remote Control                   |
| F) Gain Adjustment                   | W) Liquid Cooling                       |
| H) DC Supply                         | X) External Control of other Amplifiers |