

STANDARD MODELS

Model	Frequency Range	Output Power P <sub>N</sub> min / typ W	Gain min / typ dB	Harmonics 2nd / 3rd dBc	Line Power VA	Dimensions (H, D) 19"-System	Weight kg
BLWA 0830-10D	80 ... 3000 MHz				180	2 HU, 430 mm	14
	80 ... 1000 MHz	10 / 15	40 / 42 ±2	20 / 20			
	1000 ... 3000 MHz	10 / 15	40 / 42 ±2	15 / 20			
BLWA 0830-30/20D	80 ... 3000 MHz				360	2 HU, 430 mm	14
	80 ... 1000 MHz	30 / 35	44.8 / 47 ±2	25 / 20			
	1000 ... 3000 MHz	20 / 25	43 / 45 ±2	15 / 20			
BLWA 0830-30D	80 ... 3000 MHz				200	2 HU, 430 mm	14
	80 ... 1000 MHz	30 / 35	44.8 / 47 ±2	20 / 20			
	1000 ... 3000 MHz	30 / 35	44.8 / 48 ±3	15 / 20			
BLWA 0830-50/40D	80 ... 3000 MHz				450	3 HU, 430 mm	17
	80 ... 500 MHz	50 / 80	47 / 50 ±3	20 / 15			
	500 ... 3000 MHz	40 / 60	46 / 49 ±3	15 / 20			
BLWA 0830-50D	80 ... 3000 MHz				450	3 HU, 430 mm	17
	80 ... 500 MHz	50 / 80	47 / 49 ±2	20 / 15			
	500 ... 3000 MHz	50 / 80	47 / 49 ±2	15 / 20			
BLWA 0830-200/100/20D	80 ... 3000 MHz				900	5 HU, 630 mm	35
	80 ... 400 MHz	200 / 240	53 / 55 ±2	20 / 15			
	400 ... 1000 MHz	100 / 150	50 / 52 ±2	20 / 20			
	1000 ... 3000 MHz	20 / 25	43 / 45 ±2	15 / 20			
BLWA 0830-200/100/40D	80 ... 3000 MHz				800	5 HU, 630 mm	36
	80 ... 400 MHz	200 / 240	53 / 55 ±2	20 / 15			
	400 ... 1000 MHz	100 / 150	50 / 52 ±2	20 / 20			
	1000 ... 3000 MHz	40 / 50	46 / 48 ±2	15 / 20			
BLWA 0830-200/100/80D	80 ... 3000 MHz				800	5 HU, 630 mm	38
	80 ... 400 MHz	200 / 240	53 / 55 ±2	20 / 15			
	400 ... 1000 MHz	100 / 150	50 / 52 ±2	20 / 20			
	1000 ... 3000 MHz	80 / 100	49 / 51 ±2	12 / 20			
BLWA 0830-200D	80 ... 3000 MHz				1800	8 HU, 630 mm	72
	80 ... 1000 MHz	200 / 250	53 / 55 ±2	20 / 20			
	1000 ... 3000 MHz	200 / 220	53 / 55 ±2	15 / 20			
BLWA 0830-250/100D	80 ... 3000 MHz				1200	4 HU, 630 mm	38
	80 ... 500 MHz	250 / 300	54 / 56 ±2	25 / 20			
	500 ... 3000 MHz	100 / 120	50 / 52 ±2	15 / 20			

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 0830-250/200/40D	80 ... 3000 MHz				1900	6 HU, 630 mm	65
	80 ... 400 MHz	250 / 300	54 / 56 ±2	20 / 20			
	400 ... 1000 MHz	200 / 250	53 / 55 ±2	20 / 20			
	1000 ... 3000 MHz	40 / 50	46 / 48 ±2	15 / 20			
BLWA 0830-250/200/80D	80 ... 3000 MHz				1900	6 HU, 630 mm	67
	80 ... 400 MHz	250 / 300	54 / 56 ±2	20 / 20			
	400 ... 1000 MHz	200 / 250	53 / 55 ±2	20 / 20			
	1000 ... 3000 MHz	80 / 100	49 / 51 ±2	12 / 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)
	$P_N$ -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:
	<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 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

# BLWA 80 ... 3000 MHz Solid State Amplifiers

- C) IEEE-488.2 GPIB Remote Control
- D) Front Panel RF Connectors
- E) RF Power Indication (digital)
- F) Gain Adjustment
- H) DC Supply
- S) Internal RF Switching Unit
- R) RS-232C Remote Control
- U) USB Remote Control
- W) Liquid Cooling
- X) External Control of other Amplifiers