BLWA 80 ... 3000 MHz
Solid State Amplifiers

BONN Elektronik
YOUR ULTIMATE RF POWER SOURCE

STANDARD MODELS

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 0830-10D	80 ... 3000 MHz				220	3 HU, 550 mm	17
	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				250	3 HU, 550 mm	19
	80 ... 1000 MHz	30 / 35	44.8 / 47 ±2	20 / 20			
	1000 ... 3000 MHz	20 / 25	43 / 45 ±2	15 / 20			
BLWA 0830-30D	80 ... 3000 MHz				250	3 HU, 550 mm	19
	80 ... 1000 MHz	30 / 35	44.8 / 47 ±2	20 / 20			
	1000 ... 3000 MHz	30 / 35	44.8 / 47 ±2	15 / 20			
BLWA 0830-160/100/20D	80 ... 3000 MHz				800	5 HU, 630 mm	35
	80 ... 400 MHz	160 / 180	52 / 54 ±2	20 / 15			
	400 ... 1000 MHz	100 / 120	50 / 52 ±2	20 / 20			
	1000 ... 3000 MHz	20 / 25	43 / 45 ±2	15 / 20			
BLWA 0830-160/100/40D	80 ... 3000 MHz				800	5 HU, 630 mm	36
	80 ... 400 MHz	160 / 180	52 / 54 ±2	20 / 15			
	400 ... 1000 MHz	100 / 120	50 / 52 ±2	20 / 20			
	1000 ... 3000 MHz	40 / 50	46 / 48 ±2	15 / 20			
BLWA 0830-160/100/80D	80 ... 3000 MHz				800	5 HU, 630 mm	38
	80 ... 400 MHz	160 / 180	52 / 54 ±2	20 / 15			
	400 ... 1000 MHz	100 / 120	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 0830-250/100/40D	80 ... 3000 MHz				1400	5 HU, 630 mm	38
	80 ... 400 MHz	250 / 300	54 / 56 ±2	20 / 20			
	400 ... 1000 MHz	100 / 120	50 / 52 ±2	20 / 20			
	1000 ... 3000 MHz	40 / 50	46 / 48 ±2	15 / 20			
BLWA 0830-250/100/80D	80 ... 3000 MHz				1400	5 HU, 630 mm	38
	80 ... 400 MHz	250 / 300	54 / 56 ±2	20 / 20			
	400 ... 1000 MHz	100 / 120	50 / 52 ±2	20 / 20			
	1000 ... 3000 MHz	80 / 100	49 / 51 ±2	15 / 20			

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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 0830-250/100D	80 ... 3000 MHz				1400	5 HU, 630 mm	38
	80 ... 400 MHz	250 / 300	54 / 56 ±2	20 / 20			
	400 ... 1000 MHz	100 / 120	50 / 52 ±2	20 / 20			
	1000 ... 3000 MHz	100 / 120	50 / 52 ±2	15 / 20			
BLWA 0830-250/200/40D	80 ... 3000 MHz				1600	6 HU, 630 mm	65
	80 ... 400 MHz	250 / 300	54 / 56 ±2	20 / 15			
	400 ... 1000 MHz	200 / 240	53 / 55 ±2	20 / 20			
	1000 ... 3000 MHz	40 / 50	46 / 48 ±2	15 / 20			
BLWA 0830-250/200/80D	80 ... 3000 MHz				1600	6 HU, 630 mm	67
	80 ... 400 MHz	250 / 300	54 / 56 ±2	20 / 15			
	400 ... 1000 MHz	200 / 240	53 / 55 ±2	20 / 20			
	1000 ... 3000 MHz	80 / 100	49 / 51 ±2	12 / 20			

1 HU = 44.45mm

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. für P_N -0.5 dB;infinite for no damage
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 F	
Cooling:	forced air with integral blower	
	air intake from front, air exhaust at rear	

OPTIONS

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