BLMA 2 ... 18 GHz
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
BLMA 2018-0.2	2 ... 18 GHz	0.2 / 0.25	23 / 25 ±2	20 / 20	45	2 HU, 430 mm	9
BLMA 2018-0.3	2 ... 18 GHz	0.3 / 0.35	24.8 / 27 ±2	20 / 20	45	2 HU, 430 mm	9
BLMA 2018-0.5	2 ... 18 GHz	0.5 / 0.8	27 / 29 ±2	18 / 20	45	2 HU, 430 mm	9
BLMA 2018-0.8	2 ... 18 GHz	0.8 / 1	29 / 32 ±3	20 / 20	45	2 HU, 430 mm	9
BLMA 2018-1	2 ... 18 GHz	1 / 1.2	30 / 34 ±4	18 / 20	45	2 HU, 430 mm	9
BLMA 2018-1.5	2 ... 18 GHz	1.5 / 1.8	31 / 34 ±3	15 / 20	75	2 HU, 430 mm	10
BLMA 2018-2	2 ... 18 GHz	2 / 2.2	33 / 35 ±2	20 / 20	50	2 HU, 430 mm	10
BLMA 2018-4	2 ... 18 GHz	4 / 4.5	36 / 39 ±3	15 / 20	150	2 HU, 430 mm	12
BLMA 2018-7.5	2 ... 18 GHz				200	2 HU, 430 mm	12
	2 ... 17 GHz	7.5 / 8	38 / 41 ±3	12 / 15			
	17 ... 18 GHz	6.3 / 7.5	38 / 41 ±3	20 / 20			
BLMA 2018-30	2 ... 18 GHz	30 / 35	44.8 / 48 ±3	15 / 20	850	3 HU, 430 mm	21
BLMA 2018-20D	2 ... 18 GHz				350	3 HU, 430 mm	23
	2 ... 6 GHz	20 / 25	43 / 45 ±2	20 / 20			
	6 ... 18 GHz	20 / 22	43 / 46 ±3	15 / 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 AB-linear

GENERAL

RF Input:	<12 GHz	N-f, standard on rear panel
	12 bis 18 GHz	SMA-f, standard on front panel
	>18 GHz	2.92 mm-f, standard on front panel
RF Output:	<12 GHz	N-f, standard on rear panel
	12 to 18 GHz	SMA-f, standard on front panel
	>18 GHz	2.92 mm-f, standard on front panel
Mains Supply:	Line Power:	

	Line Power	
	<800 VA	100 ... 240 V AC ±10%
	800 ... 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 *)
B) External Dual Directional Coupler
C) IEEE-488.2 GPIB Remote Control
D) Front Panel RF Connectors
E) RF Power Indication (digital) *)
F) Gain Adjustment *)
G) Output Isolator *)
H) DC Supply
I) 3x 208 V AC / 60 Hz
L) LAN Remote Control
N) Harmonics Filtering *)
R) RS-232C Remote Control
S) Internal RF Switching Unit *)
U) USB Remote Control
W) Liquid Cooling
X) External Control of other Amplifiers

*) These options may reduce output power and/or gain