

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 1012-4D	1 ... 12 GHz				180	2 HU, 430 mm	13
	1 ... 6 GHz	4 / 5	36 / 39 ±3	20 / 20			
	6 ... 12 GHz	4 / 5	36 / 40 ±4	20 / 20			
BLMA 1012-7/5D	1 ... 12 GHz				220	2 HU, 430 mm	14
	1 ... 6 GHz	7 / 8	38.4 / 42 ±3	15 / 20			
	6 ... 12 GHz	5 / 6	37 / 40 ±3	15 / 20			
BLMA 1012-10D	1 ... 12 GHz				300	2 HU, 430 mm	14
	1 ... 6 GHz	10 / 12	40 / 43 ±3	15 / 20			
	6 ... 12 GHz	10 / 12	40 / 44 ±4	15 / 20			
BLMA 1012-15D	1 ... 12 GHz				350	3 HU, 430 mm	19
	1 ... 6 GHz	15 / 20	41.8 / 45 ±3	15 / 20			
	6 ... 12 GHz	15 / 20	41.8 / 45 ±3	15 / 20			
BLMA 1012-20D	1 ... 12 GHz				350	3 HU, 430 mm	20
	1 ... 6 GHz	20 / 25	43 / 46 ±3	15 / 20			
	6 ... 12 GHz	20 / 22	43 / 46 ±3	15 / 20			
BLMA 1012-30/10D	1 ... 12 GHz				400	3 HU, 430 mm	20
	1 ... 6 GHz	30 / 35	44.8 / 48 ±3	15 / 20			
	6 ... 12 GHz	10 / 12	40 / 44 ±4	15 / 20			
BLMA 1012-30/15D	1 ... 12 GHz				450	3 HU, 430 mm	23
	1 ... 6 GHz	30 / 35	44.8 / 48 ±3	15 / 20			
	6 ... 12 GHz	15 / 18	41.8 / 46 ±4	15 / 20			
BLMA 1012-30/20D	1 ... 12 GHz				450	3 HU, 430 mm	23
	1 ... 6 GHz	30 / 35	44.8 / 48 ±3	15 / 20			
	6 ... 12 GHz	20 / 22	43 / 47 ±4	15 / 20			
BLMA 1012-50D	1 ... 12 GHz				1300	5 HU, 630 mm	52
	1 ... 6 GHz	50 / 60	47 / 50 ±3	15 / 20			
	6 ... 12 GHz	50 / 60	47 / 51 ±4	15 / 20			
BLMA 1012-100D	1 ... 12 GHz				2700	8 HU, 630 mm	85
	1 ... 6 GHz	100 / 110	50 / 53 ±3	15 / 20			
	6 ... 12 GHz	100 / 110	50 / 54 ±4	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

# BLMA 1 ... 12 GHz Solid State Amplifiers

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 $\pm$ 10%
	800 ... 3000 VA	200 ... 240 V AC $\pm$ 10%
	>3000 VA	3x 400 V AC $\pm$ 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 *)	L) LAN Remote Control
B) External Dual Directional Coupler	N) Harmonics Filtering *)
C) IEEE-488.2 GPIB Remote Control	R) RS-232C Remote Control
D) Front Panel RF Connectors	S) Internal RF Switching Unit *)
E) RF Power Indication (digital) *)	U) USB Remote Control
F) Gain Adjustment *)	W) Liquid Cooling
G) Output Isolator *)	X) External Control of other Amplifiers
H) DC Supply	
I) 3x 208 V AC / 60 Hz	

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