BLMA 1 ... 4 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 1040-30/20D	1 ... 4 GHz				200	3 HU, 430 mm	19
	1 ... 2 GHz	30 / 35	44.8 / 47 ±2	20 / 20			
	2 ... 4 GHz	20 / 35	43 / 45 ±2	20 / 20			
BLMA 1040-30	1 ... 4 GHz	30 / 35	44.8 / 47 ±2	15 / 20	300	2 HU, 430 mm	12
BLMA 1040-60/35D	1 ... 4 GHz				400	3 HU, 630 mm	22
	1 ... 2 GHz	60 / 70	47.8 / 50 ±2	20 / 20			
	2 ... 4 GHz	35 / 40	45.4 / 48 ±2	20 / 20			
BLMA 1040-60	1 ... 4 GHz	60 / 80	47.8 / 50 ±2	18 / 20	600	3 HU, 430 mm	17
BLMA 1040-60D	1 ... 4 GHz				600	3 HU, 630 mm	26
	1 ... 2 GHz	60 / 70	47.8 / 50 ±2	20 / 20			
	2 ... 4 GHz	60 / 75	47.8 / 50 ±2	20 / 20			
BLMA 1040-80	1 ... 4 GHz	80 / 100	49 / 51 ±2	20 / 20	490	3 HU, 430 mm	18
BLMA 1040-100/60D	1 ... 4 GHz				750	3 HU, 630 mm	28
	1 ... 2 GHz	100 / 120	50 / 52 ±2	20 / 20			
	2 ... 4 GHz	60 / 75	47.8 / 50 ±2	20 / 20			
BLMA 1040-100D	1 ... 4 GHz				1300	6 HU, 630 mm	42
	1 ... 2 GHz	100 / 120	50 / 52 ±2	20 / 20			
	2 ... 4 GHz	100 / 120	50 / 52 ±2	20 / 20			
BLMA 1040-120	1 ... 4 GHz	120 / 150	50.8 / 53 ±2	20 / 20	900	3 HU, 630 mm	25
BLMA 1040-200/100D	1 ... 4 GHz				1300	6 HU, 630 mm	45
	1 ... 2 GHz	200 / 240	53 / 55 ±2	20 / 20			
	2 ... 4 GHz	100 / 120	50 / 52 ±2	20 / 20			
BLMA 1040-200	1 ... 4 GHz	200 / 250	53 / 55 ±2	20 / 20	1800	4 HU, 630 mm	40
BLMA 1040-200D	1 ... 4 GHz				2500	9 HU, 630 mm	52
	1 ... 2 GHz	200 / 240	53 / 55 ±2	20 / 20			
	2 ... 4 GHz	200 / 240	53 / 55 ±2	20 / 20			
BLMA 1040-240/200D	1 ... 4 GHz				2700	9 HU, 630 mm	52
	1 ... 2 GHz	240 / 260	53.8 / 56 ±2	20 / 20			
	2 ... 4 GHz	200 / 240	53 / 55 ±2	20 / 20			
BLMA 1040-250	1 ... 4 GHz	250 / 280	54 / 56 ±2	20 / 20	1800	4 HU, 630 mm	39

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BLMA 1040-300/200	1 ... 4 GHz				3900	8 HU, 630 mm	87
	1 ... 2 GHz	300 / 320	54.8 / 57 ±2	20 / 20			
	2 ... 4 GHz	200 / 240	53 / 55 ±2	20 / 20			
BLMA 1040-400/200D	1 ... 4 GHz				2700	13 HU, 630 mm	105
	1 ... 2 GHz	400 / 450	56 / 58 ±2	20 / 20			
	2 ... 4 GHz	200 / 240	53 / 55 ±2	20 / 20			
BLMA 1040-400	1 ... 4 GHz	400 / 500	56 / 59 ±3	20 / 20	6000	7 HU, 630 mm	84
BLMA 1040-500	1 ... 4 GHz	500 / 600	57 / 59 ±2	18 / 20	6000	8 HU, 630 mm	97
BLMA 1040-750/400D	1 ... 4 GHz				8000	41 HU, 800 mm	230
	1 ... 2 GHz	750 / 900	58.8 / 61 ±2	20 / 20			
	2 ... 4 GHz	400 / 450	56 / 58 ±2	20 / 20			
BLMA 1040-750	1 ... 4 GHz	750 / 800	58.8 / 62 ±3	20 / 20	8000	12 HU, 800 mm	140
BLMA 1040-1000D	1 ... 4 GHz				8500	2x 24 HU, 800 mm	460
	1 ... 2 GHz	1000 / 1200	60 / 62 ±2	20 / 20			
	2 ... 4 GHz	1000 / 1200	60 / 62 ±2	20 / 20			
BLMA 1040-1300/400D	1 ... 4 GHz				12000	37 HU, 800 mm	350
	1 ... 2 GHz	1300 / 1500	61.1 / 64 ±2	20 / 20			
	2 ... 4 GHz	400 / 450	56 / 58 ±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) 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