

# BLMA 1 ... 3.2 GHz

## Dual Purpose CW and Pulsed

### STANDARD MODELS

Model	Frequency Range	CW Power	Pulse Power	Gain	Harmonics	Line Power	Dimensions	Weight
		$P_N$ min / typ W	$P_{pk}$ min / Duty W pk / %	min / typ dB	2nd / 3rd dBc	VA	(H, D) 19-System	kg
BLMA 1032-500/1000P	1 ... 3.2 GHz	500 / 600	1000 / 10	57 / 59 ±2	20 / 20	3800	6 HU, 630 mm	75

1 HU = 44.45 mm

Dual purpose wideband CW and Pulsed Solid State Class AB Linear GaN Amplifiers  
for Radiated Immunity Tests according to Automotive Standards e.g.  
Ford FMC1278 | GM GMW3097 | FCA CS00054 | MBN 50284-2 | BMW GS95002-2 | VW TL81000 | Volvo STD 515-003

### 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
Pulse Width	100 µs max.
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 $P_N$ ):	-60 dBc min. (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:	-25 ... +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	
	Option W: Liquid cooling External heat exchanger required	

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### OPTIONS

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- 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/RS-485 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