

## 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 1840-1	18 ... 40 GHz				100	2 HU, 430 mm	10
	18 ... 20 GHz	0.8 / 1	29 / 32 ±3	20 / 20			
	20 ... 40 GHz	1 / 1.1	30 / 33 ±3	20 / 20			

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 $P_N$ ):	-60 dBc min. (excluding harmonics)
Class of Operation:	A-linear or AB-linear

## GENERAL

RF Input:	2.92 mm-f, standard on front panel
RF Output:	2.92 mm-f, standard on front panel
Mains Supply:	100 ... 240 V AC ±10%, 47 ... 63 Hz
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/RS-485 Remote Control
D) Rear Panel RF Connectors	S) Internal RF Switching Unit *)
E) RF Power Indication (digital) *)	U) USB Remote Control
F) Gain Adjustment *)	W) Liquid Cooling

# BLMA 18 ... 40 GHz Solid State Amplifiers

G) Output Isolator \*)  
H) DC Supply  
I) 3x 208 V AC / 60 Hz

X) External Control of other Amplifiers

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