# BLMA 2 ... 20 GHz
## Solid State Amplifiers

BONN Elektronik
RF POWER IS OUR PASSION

### 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 2020-1 | 2 ... 20 GHz | 1 / 1.2 | 30 / 33 ±3 | 18 / 20 | 100 | 2 HU, 430 mm | 9 |

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:** SMA-f, standard on front panel
**RF Output:** SMA-f, standard on front panel
**Mains Supply:** 100 ... 240 V AC, 47 ... 63 Hz
**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

### OPTIONS

A) RF-Sample Ports *)
B) External Dual Directional Coupler
C) IEEE-488.2 GPIB Remote Control
D) Rear Panel RF Connectors
E) RF Power Indication (digital) *)
F) Gain Adjustment *)
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

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