

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