

## STANDARD MODELS

| Model         | Frequency Range | Output Power<br>$P_N$ min / typ<br>W | Gain<br>min / typ<br>dB | Harmonics<br>2nd / 3rd<br>dBc | Line Power<br>VA | Dimensions<br>(H, D)<br>19"-System | Weight<br>kg |
|---------------|-----------------|--------------------------------------|-------------------------|-------------------------------|------------------|------------------------------------|--------------|
| BLMA 1840-20D | 18 ... 40 GHz   |                                      |                         |                               | 600              | 4 HU, 630 mm                       | 28           |
|               | 18 ... 26.5 GHz | 20 / 22                              | 43 / 47 ±4              | 20 / 20                       |                  |                                    |              |
|               | 26.5 ... 40 GHz | 20 / 22                              | 43 / 47 ±4              | 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:           | WRD 180, 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