

## 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 0842-1   | 0.8 ... 4.2 GHz | 1 / 1.3                              | 30 / 32 ±2              | 20 / 20                       | 75               | 2 HU, 430 mm                       | 10           |
| BLMA 0842-3   | 0.8 ... 4.2 GHz | 3 / 3.5                              | 34.8 / 37 ±2            | 20 / 20                       | 80               | 2 HU, 430 mm                       | 10           |
| BLMA 0842-5   | 0.8 ... 4.2 GHz | 5 / 6                                | 37 / 39 ±2              | 15 / 20                       | 100              | 2 HU, 430 mm                       | 10           |
| BLMA 0842-10  | 0.8 ... 4.2 GHz | 10 / 13                              | 40 / 42 ±2              | 15 / 20                       | 300              | 2 HU, 430 mm                       | 13           |
| BLMA 0842-20  | 0.8 ... 4.2 GHz | 20 / 25                              | 43 / 45 ±2              | 15 / 20                       | 300              | 2 HU, 430 mm                       | 14           |
| BLMA 0842-60  | 0.8 ... 4.2 GHz | 60 / 80                              | 47.8 / 50 ±2            | 18 / 20                       | 600              | 3 HU, 630 mm                       | 28           |
| BLMA 0842-120 | 0.8 ... 4.2 GHz | 120 / 150                            | 50.8 / 53 ±2            | 18 / 20                       | 1200             | 3 HU, 630 mm                       | 32           |
| BLMA 0842-200 | 0.8 ... 4.2 GHz | 200 / 250                            | 53 / 55 ±2              | 18 / 20                       | 2500             | 5 HU, 630 mm                       | 44           |
| BLMA 0842-350 | 0.8 ... 4.2 GHz | 350 / 450                            | 55.4 / 58 ±2            | 18 / 20                       | 4500             | 8 HU, 630 mm                       | 97           |
| BLMA 0842-400 | 0.8 ... 4.2 GHz | 400 / 500                            | 56 / 58 ±2              | 18 / 20                       | 4500             | 8 HU, 630 mm                       | 97           |
| BLMA 0842-500 | 0.8 ... 4.2 GHz | 500 / 600                            | 57 / 60 ±3              | 18 / 20                       | 6000             | 10 HU, 630 mm                      | 128          |

For individual data sheets, please click on the above model name

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 $P_N$ ): | -50 dBc typ. (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 |                                    |

# BLMA 0.8 ... 4.2 GHz Solid State Amplifiers

|                      |   |
|----------------------|---|
| 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 F   |
| Cooling:             | forced air with integral blower<br>air intake from front, air exhaust at rear |

## OPTIONS

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|                                      |   |
|--------------------------------------|---|
| 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 Remote Control               |
| D) Front Panel RF Connectors         | S) Internal RF Switching Unit *)        |
| E) RF Power Indication [digital] *)  | U) USB Remote Control                   |
| F) Gain Adjustment *)                | W) Liquid Cooling                       |
| G) Output Isolator *)                | X) External Control of other Amplifiers |
| H) DC Supply                         |   |
| I) 3x 208 V AC / 60 Hz               |   |

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