BLMA 40 ... 50 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 4050-100	40 ... 50 GHz	100 / 110	50 / 54 ±4	20 / 20	3500	12 HU, 630 mm	78

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: 2.4 mm-f, standard on front panel
RF Output: WR 19, standard on front panel
Mains Supply: 3x 400 V AC ±10%, 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