# BSA 100 kHz ... 500 MHz
## 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 |
|---|---|---|---|---|---|---|---|
| BSA 1050-500/100 | 100 kHz ... 500 MHz | | | | 2500 | 4 HU, 630 mm | 38 |
| | 100 kHz ... 250 MHz | 500 / 600 | 57 / 59 ±2 | 20 / 17 | | | |
| | 250 ... 400 MHz | 300 / 350 | 54.8 / 57 ±2 | 20 / 20 | | | |
| | 400 ... 500 MHz | 100 / 120 | 50 / 52 ±2 | 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)<br>$P_N$ -0.5 dB min. at VSWR 2:1 |
| **Spurious (at $P_N$):** | -60 dBc min. (excluding harmonics) |
| **Class of Operation:** | A-linear |

### GENERAL

| | |
|---|---|
| **RF Input:** | N-f, standard on rear panel |
| **RF Output:** | N-f, standard on rear panel |
| **Mains Supply:** | 200 ... 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<br>air intake from front, air exhaust at rear<br>Option W: Liquid cooling<br>External heat exchanger required |

### OPTIONS

A) RF Monitor Outputs
B) External Dual Directional Coupler
L) LAN Remote Control
R) RS-232C/RS-485 Remote Control

C) IEEE-488.2 GPIB Remote Control
D) Front Panel RF Connectors
E) RF Power Indication (digital)
F) Gain Adjustment
H) DC Supply
S) Internal RF Switching Unit
U) USB Remote Control
W) Liquid Cooling
X) External Control of other Amplifiers
(XL) Rack width 800 mm