

## 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 |
|------------------|---------------------|--------------------------------------|-------------------------|-------------------------------|------------------|------------------------------------|--------------|
| BSA 1040-250/150 | 100 kHz ... 400 MHz |                                      |                         |                               | 1200             | 3 HU, 630 mm                       | 29           |
|                  | 100 kHz ... 100 MHz | 250 / 300                            | 54 / 56 ±2              | 20 / 20                       |                  |                                    |              |
|                  | 100 ... 400 MHz     | 150 / 180                            | 51.8 / 54 ±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) |
|                       | $P_N$ -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            |
|                      | air intake from front, air exhaust at rear |
|                      | Option W: Liquid cooling                   |
|                      | External heat exchanger required           |

## OPTIONS

|                                      |                                  |
|--------------------------------------|----------------------------------|
| A) RF Monitor Outputs                | L) LAN Remote Control            |
| B) External Dual Directional Coupler | R) RS-232C/RS-485 Remote Control |
| C) IEEE-488.2 GPIB Remote Control    | S) Internal RF Switching Unit    |
| D) Front Panel RF Connectors         | U) USB Remote Control            |

# BSA 100 kHz ... 400 MHz Solid State Amplifiers

E) RF Power Indication (digital)  
F) Gain Adjustment  
H) DC Supply

W) Liquid Cooling  
X) External Control of other Amplifiers  
(XL) Rack width 800 mm