

# BSA

100 kHz ... 400 MHz

Solid State

## Standard Models

| Model             | Frequency Range     | Output Power<br>P <sub>N</sub> min<br>W | Gain<br>min / typ<br>dB | Harmonics<br>2nd / 3rd<br>dBc | Line Power<br>W | Dimensions<br>(H, D)<br>19"-System | Weight<br>kg |
|-------------------|---------------------|---|-------------------------|-------------------------------|-----------------|------------------------------------|--------------|
| BSA 1040-50       | 100 kHz ... 400 MHz | 50                                      | 47 / 50 ±2              | 20 / 20                       | 400             | 4 HU, 550 mm                       | 20           |
| BSA 1040-100      | 100 kHz ... 400 MHz | 100                                     | 50 / 52 ±2              | 20 / 20                       | 800             | 4 HU, 550 mm                       | 30           |
| BSA 1040-250      | 100 kHz ... 400 MHz | 250                                     | 54 / 56 ±2              | 20 / 20                       | 1700            | 5 HU, 630 mm                       | 42           |
| BSA 1040-500/200D | 100 kHz ... 400 MHz | 500/200                                 |                         |                               | 2800            | 9 HU, 630 mm                       | 80           |
|                   | 100 kHz ... 100 MHz | 500                                     | 57 / 59 ±2              | 20 / 18                       |                 |                                    |              |
|                   | 100 ... 400 MHz     | 200                                     | 53 / 55 ±2              | 20 / 15                       |                 |                                    |              |

## 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:                     | 2:1 max. for P <sub>N</sub> -0.5 dB;<br>infinite for no damage |
| Spurious (at P <sub>N</sub> ): | -50 dBc typ.(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:        | Line Power: <1000 W<br>100 ... 240 V AC $\pm 10\%$ / 47 ... 63 Hz<br>Line Power: 1000 ... 3000 W<br>200 ... 240 V AC $\pm 10\%$ / 47 ... 63 Hz<br>Line Power: >3000 W<br>3x 400 V AC $\pm 10\%$ / 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 F  |
| Cooling:             | forced air with integral blower,<br>air intake from front air exhaust at rear  |

**Options:**

- |                                      |                           |
|--------------------------------------|---------------------------|
| A) RF Monitor Outputs                | F) Gain Adjustment        |
| B) External Dual Directional Coupler | H) DC-Supply              |
| C) IEEE-488.2 GPIB Remote Control    | R) RS-232C Remote Control |
| D) Front Panel RF-Connectors         | U) USB Remote Control     |
| E) Power Indication (digital)        |                           |

Specifications are subject to change without notice

BONN Elektronik GmbH – BSA 100 kHz ... 400 MHz

# **BONN Elektronik**

**RF Systems, Instruments and Components**



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