

BPA 2.7 ... 3.1 GHz Pulsed Solid State Amplifiers

STANDARD MODELS

| Model | Frequency Range | Output Power P _P min / Duty W pk / % | Pulse Width max. **) | Gain typ dB | Harmonics 2nd / 3rd dBc | Line Power VA | Dimensions (H, D) 19"-System | Weight kg |
|---------------|-----------------|---|-------------------------|-------------------|-------------------------------|------------------|------------------------------------|--------------|
| BPA 2731-50 | 2.7 ... 3.1 GHz | 50 / 10 | 100 µs | 47 ±2.5 | 30 / 30 | 150 | 2 HU, 430 mm | 15 |
| BPA 2731-100 | 2.7 ... 3.1 GHz | 100 / 10 | 100 µs | 50 ±2.5 | 30 / 30 | 250 | 3 HU, 430 mm | 15 |
| BPA 2731-200 | 2.7 ... 3.1 GHz | 200 / 10 | 100 µs | 53 ±2.5 | 30 / 30 | 250 | 3 HU, 630 mm | 20 |
| BPA 2731-300 | 2.7 ... 3.1 GHz | 300 / 10 | 100 µs | 55 ±2.5 | 30 / 30 | 300 | 3 HU, 630 mm | 21 |
| BPA 2731-400 | 2.7 ... 3.1 GHz | 400 / 10 | 100 µs | 56 ±2.5 | 30 / 30 | 350 | 3 HU, 630 mm | 22 |
| BPA 2731-500 | 2.7 ... 3.1 GHz | 500 / 10 | 100 µs | 57 ±2.5 | 40 / 40 | 500 | 4 HU, 630 mm | 28 |
| BPA 2731-1000 | 2.7 ... 3.1 GHz | 1000 / 10 | 100 µs | 60 ±2.5 | 40 / 40 | 1000 | 4 HU, 630 mm | 30 |

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 |
| Pulse Droop: | 1.0 dB |
| Spurious (at P _N): | -50 dBc typ. (excluding harmonics) |
| Class of Operation: | C |

GENERAL

| | | |
|----------------------|--|--------------------------------|
| RF Input: | <8 GHz | N-f, standard on rear panel |
| | 8 to 18 GHz | SMA-f, standard on front panel |
| | > 18 GHz | K-f, standard on front panel |
| RF Output: | <8 GHz | N-f, standard on rear panel |
| | 8 to 18 GHz | SMA-f, standard on front panel |
| | >18 GHz | K-f, standard on front panel |
| Mains Supply: | P _P up to 100 W | 85 ... 264 V AC |
| | P _P >100 W | 3x 400 V AC |
| 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 | |
| | air intake from front, air exhaust at rear | |

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OPTIONS

- | | |
|--------------------------------------|---|
| A) Sample Ports *) | R) RS-232C Remote Control |
| B) External Dual Directional Coupler | S) Internal RF Switching Unit *) |
| C) IEEE-488.2 GPIB Remote Control | U) USB Remote Control |
| D) Front Panel RF-Connectors | W) Liquid Cooling |
| E) RF Power Indication (digital) *) | X) External Control of other Amplifiers |
| F) Gain Adjustment *) | |
| G) Output Isolator *) | |
| H) DC-Supply | |
| I) 3x 208 V AC / 60 Hz | |
| L) LAN Remote Control | |

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

**) Optionally other pulse width available