

# BPA 2.7 ... 3.1 GHz Pulsed Solid State Amplifiers

## STANDARD MODELS

Model	Frequency Range	Output Power P <sub>P</sub> 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 <sub>N</sub> -0.5 dB min. at VSWR 2:1
Pulse Droop:	1.0 dB
Spurious (at P <sub>N</sub> ):	-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 <sub>P</sub> up to 100 W	85 ... 264 V AC
	P <sub>P</sub> >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 G	
Cooling:	forced air with integral blower	
	air intake from front, air exhaust at rear	

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## OPTIONS

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- |                                      |   |
|--------------------------------------|---|
| 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