

BPA / TWAP

2,7 ... 3,1 GHz

Pulsed Amplifiers

Standard Models

Model	Frequency Range	Output Power P _P min W	Gain typ dB	Harmonics 2nd / 3rd dBc	Line Power W	Dimensions (H, D) 19"-System	Weight kg
BPA 2731-25	2,7 ... 3,1 GHz	25	44 ±2.5	40 / 40	100	3 HU, 350 mm	15
BPA 2731-50	2,7 ... 3,1 GHz	50	47 ±2.5	40 / 40	150	3 HU, 350 mm	15
BPA 2731-100	2,7 ... 3,1 GHz	100	50 ±2.5	40 / 40	250	3 HU, 350 mm	15
BPA 2731-300	2,7 ... 3,1 GHz	300	54.8 ±2.5	40 / 40	500	3 HU, 550 mm	20
BPA 2731-500	2,7 ... 3,1 GHz	500	57 ±2.5	40 / 40	500	3 HU, 550 mm	25
BPA 2731-1000	2,7 ... 3,1 GHz	1000	60 ±2.5	40 / 40	1000	4 HU, 550 mm	30

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 _{pk} -0.5 dB; infinite (with option G)
Puls Width:	120 µs
Duty Cycle:	10%
Risetime / Falltime:	<200 ns
Pulse Droop:	1.0 dB
Spurious:	-50 dBc typ. (excluding harmonics)

Class of Operation: C

General:

RF Input: N-f; standard on rear panel
RF Output: N-f; standard on rear panel
Ambient Temperature: 0 ... +45 °C
Mains Supply: Line Power: <1000 W
100 ... 240 V AC ±10% / 47 ... 63 Hz
Line Power: 1000 ... 3000 W
200 ... 240 V AC ±10% / 47 ... 63 Hz
Line Power: >3000 W
3x 400 V AC ±10% / 47 ... 63 Hz
Storage Temperature: -20 ... +85 °C
Relative Humidity: up to 95% (non-condensing)
Cooling: forced air with integral blower,
air intake from front air exhaust at rear
Vibration and Shock: MIL-STD-810 F
Operating Altitude: up to 2000 m above sea level

Options:

A) RF Monitor Outputs
B) External Dual Directional Coupler
D) Front Panel RF-Connectors
C) IEEE-488.2 GPIB Remote Control
E) Power Indication (digital)
G) Output Isolator
H) DC-Supply
N) Harmonic Filter
I) 3x 200 V AC / 60 Hz
R) RS-232C Remote Control
S) Gate Input
U) USB Remote Control

Specifications are subject to change without notice

BONN Elektronik GmbH – BPA / TWAP 2,7 ... 3,1 GHz

BONN Elektronik

RF Systems, Instruments and Components



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