BPA 1 ... 2 GHz
Pulsed Solid State Amplifiers

BONN Elektronik
RF POWER IS OUR PASSION

STANDARD MODELS

Model	Frequency Range	Output Power P_P min / Duty W pk / %	Pulse Width max. **)	Gain min / typ dB	Harmonics 2nd / 3rd dBc	Line Power VA	Dimensions (H, D) 19"-System	Weight kg
BPA 1020-300	1 ... 2 GHz	300 / 10	100 µs	54.8 / 58 ±3	15 / 20	600	3 HU, 630 mm	28

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
PRF: 1 kHz
Pulse Droop: 1.0 dB max.
Spurious (at P_N): -60 dBc min. (excluding harmonics)
Class of Operation: AB-linear

GENERAL

RF Input: N-f, standard on rear panel
RF Output: N-f, standard on rear panel
Mains Supply: 100 ... 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) Sample Ports *)
B) External Dual Directional Coupler
C) IEEE-488.2 GPIB Remote Control
D) Front Panel RF-Connectors
R) RS-232C/RS-485 Remote Control
S) Internal RF Switching Unit *)
U) USB Remote Control
W) Liquid Cooling

E) RF Power Indication (digital) *)
F) Gain Adjustment *)
G) Output Isolator *)
H) DC-Supply
I) 3x 208 V AC / 60 Hz
L) LAN Remote Control
X) External Control of other Amplifiers

*) These options may reduce output power and/or gain
**) Optionally other pulse width available