

# BPA / TWAP

3 ... 4 GHz

Pulsed Amplifiers

## Standard Models

Model	Frequency Range	Output Power P <sub>P</sub> min / Duty W / %	Gain typ dB	Harmonics 2nd / 3rd dBc typ	Line Power W	Dimensions (H,D) 19"-System	Weight kg
TWAP 0304-10000	3 ... 4 GHz	10000 4%	77.5 +7.5	6 / 15	2000	4 HU, 700 mm	35

## 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 infinite for no damage
Pulse Width	0.2 ... 20 μs optionally other ranges available
PRF	1000 W: 20 kHz max. optionally: 100 kHz max.
Rise-/Falltime	100 ns
Droop	0.5 dB
Pulse to Pulse Stability:	0.1 dB
Spurious (at P <sub>P</sub> ):	-50 dBc typ.(excluding harmonics)
Class of Operation:	A-linear

**General:**

RF Input:	N–f; standard on rear panel
RF Output (4 GHz):	standard on rear panel 2 kW: N–f > 2 kW: 7–16–f
RF Output (>4 GHz):	standard on rear panel 4 ... 8 GHz: WRD 350 8 ... 12 GHz: WR 90 8 ... 18 GHz: WRD 750 12 ... 18 GHz, WR 62
RF Monitor Output	–50 dB forward
Pulse Input:	BNC–f; standard on rear panel
Mains Supply:	100 ... 264 V AC / 47 ... 63 Hz
Elapsed Time Meter:	integrated
Ambient Temperature:	0 ... +45 °C
Storage Temperature:	–20 ... +70 °C
Relative Humidity:	up to 95% (non–condensing)
Operating Altitude:	up to 2000 m above sea level
Vibration and Shock:	normal laboratory environment
Cooling:	forced air with integral blower, air intake at front and air exhaust at rear

**Options:**

A) Reverse Monitor	P) Extended Pulse Width
B) External Dual Directional Coupler	R) RS–232C Remote Control
C) IEEE–488.2 GPIB Remote Control	U) USB Remote Control
G) Harmonic Filter	

Specifications are subject to change without notice

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