BPA / TWAP

2 ... 4 GHz

Pulsed Amplifiers

Standard Models

Model	Frequency Range	Output Power P_P min / Duty W / %	Gain typ dB	Harmonics 2nd / 3rd dBc typ	Line Power W	Dimensions (H,D) 19"−System	Weight kg
TWAP 0204−2000	2 ... 4 GHz	2000 6%	70.5 ±7.5	4 / 10	1200	4 HU, 700 mm	35
TWAP 0204−5000	2 ... 4 GHz	5000 6%	74.5 ±7.5	3 / 8	2800	4 HU, 730 mm	35
TWAP 0204−9000	2 ... 4 GHz	9000 6%	77 ±7.5	7 / 12	6000	12 HU, 800 mm	100

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_N −0,5 dB infinite for no damage
Pulse Width	0.2 ... 20 µs optionally other ranges available
P_{RF}	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_P):	−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

B) External Dual Directional Coupler

C) IEEE−488.2 GPIB Remote Control

G) Harmonic Filter

P) Extended Pulse Width

R) RS−232C Remote Control

U) USB Remote Control

Specifications are subject to change without notice

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