TWAP 12.4 ... 18 GHz
Pulsed TWT Amplifiers

BONN Elektronik
RF POWER IS OUR PASSION

STANDARD MODELS

Model	Frequency Range	Output Power P_P min / Duty W / %	Pulse Width max. **)	Gain min / typ dB	Harmonics 2nd / 3rd dBc	Line Power VA	Dimensions (H, D) 19"-System	Weight kg
TWAP 1218-3500	**12.4 ... 18 GHz**	**3500 / 6**	**50 µs**	**65.4 / 71 ±5**	**15 / 15**	**1500**	**6 HU, 800 mm**	**48**

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 at 1 µs Pulswidth: 100 kHz (Duty e.g. 6%)
PRF at 100 µs Pulswidth: 1 kHz (Duty e.g. 6%)
Spurious (at P_N): -60 dBc min. (excluding harmonics)
Class of Operation: A-linear

GENERAL

RF Input: N-f, standard on rear panel
RF Output: WR 62, 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
L) LAN Remote Control
R) RS-232C/RS-485 Remote Control
S) Internal RF Switching Unit *)
U) USB Remote Control

E) RF Power Indication (digital) *)
F) Gain Adjustment *)
G) Output Isolator *)
H) DC Supply
I) 3x 208 V AC / 60 Hz
J) 100 V AC

W) Liquid Cooling
X) External Control of other Amplifiers

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