

TWAL

8 ... 18 GHz

Travelling Wave Tube

Standard Models

Model	Frequency Range	Output Power P _N min W	Gain min / typ dB	Harmonics 2nd / 3rd dBc	Line Power W	Dimensions (H,D) 19"-System	Weight kg
TWAL 0818–200E	8 ... 18 GHz	200	53 / 61 ±7.5	6 / 15	2000	4 HU, 700 mm	33

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
Spurious (at P _N):	–50 dBc typ.(excluding harmonics)
Noise:	1 ... 18 GHz: 20 dBm/MHz 18 ... 40 GHz: 7 dBm/MHz
Class of Operation:	A–linear

General:

RF Input:	1 ... 18 GHz: N–f; standard on rear panel 18 ... 40 GHz, k–f; standard on rear panel
RF Output:	1 ... 8 GHz: N–f 8 ... 18 GHz: WRD 750 18 ... 40 GHz WRD 180
Sample Port:	–50 dB forward

BONN Elektronik GmbH – TWAL 8 ... 18 GHz

Mains Supply:	100 ... 240 V AC / 47 ... 63 Hz
Ambient Temperature:	0 ... +45°C
Storage Temperature:	-20 ... +85 °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 and exhaust at rear

Options:

- | | |
|--------------------------------------|---------------------------|
| A) RF Monitor Outputs | F) Gain Adjustment |
| B) External Dual Directional Coupler | G) Output Isolator |
| C) IEEE-488.2 GPIB Remote Control | N) Harmonic Filter |
| D) Front Panel RF Connectors | R) RS-232C Remote Control |
| E) Power Indication | U) USB Remote Control |

Specifications are subject to change without notice

