

TWAL

4 ... 18 GHz

Travelling Wave Tube

Standard Models

Model	Frequency Range	Output Power P_N / W	Gain min / typ dB	Harmonics 2nd / 3rd dBc	Line Power W	Dimensions (H,D) 19"-System	Weight kg
TWAL 0418-30E	4 ... 18 GHz	(30)	45 / 55 $\pm$ 10	+3 / -10	600	3 HU, 550 mm	20
	4.2 ... 4.5 GHz	20					
	4.5 ... 6 GHz	30					
	6 ... 18 GHz	70					
TWAL 0418-20	4 ... 18 GHz	20	43 / 51 $\pm$ 7.5	0 / 5	600	3 HU, 550 mm	20

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 Figure:	20 dB max.
Class of Operation:	A-linear

General:

RF Input:	N-f; standard on rear panel
RF Output:	N-f; standard on rear panel

BONN Elektronik GmbH – TWAL 4 ... 18 GHz

Mains Supply:	200 ... 264 V AC / 47 ... 63 Hz
Elapsed Time Meter:	via status display
Ambient Temperature:	0 ... +40 °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	G) Output Isolator
B) External Dual Directional Coupler	M) 115 V AC / 47 ... 63 Hz
C) IEEE–488.2 GPIB Remote Control	N) Harmonic Filter
D) Front Panel RF Connectors	R) RS–232C Remote Control
E) Power Indication (digital)	U) USB Remote Control
F) Gain Adjustment	

Specifications are subject to change without notice

