

TWAL

12 ... 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 1218–20	12 ... 18 GHz	20	43 / 48 \pm 5	5 / 20	400	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
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:

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|--------------------------------------|----------------------------|
| 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



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