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 0818−50/35	8 ... 18 GHz 8 ... 15 GHz 15 ... 18 GHz	50/35 50 35	 47 / 55 ±7.5 43 / 51 ±7.5	5 / 20	400	3 HU, 550 mm	22

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:

A) RF Monitor Outputs
B) External Dual Directional Coupler
C) IEEE−488.2 GPIB Remote Control
D) Front Panel RF Connectors
E) Power Indication (digital)
F) Gain Adjustment
G) Output Isolator
M) 115 V AC / 47 ... 63 Hz
N) Harmonic Filter
R) RS−232C Remote Control
U) USB Remote Control

Specifications are subject to change without notice

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