

STANDARD MODELS

Model	Frequency Range	Output Power P_N min / typ W	Gain min / typ dB	Harmonics 2nd / 3rd dBc	Line Power VA	Dimensions (H, D) 19"-System	Weight kg
TWAL 0818-200E	8 ... 18 GHz	200 / 250	53 / 61 ±7.5	6 / 15	2000	4 HU, 630 mm	33
TWAL 0818-250E	8 ... 18 GHz	250 / 300	54 / 62 ±7.5	7 / 15	2000	4 HU, 630 mm	32
TWAL 0818-500E	8 ... 18 GHz	500 / 550	57 / 65 ±7.5	15 / 20	3000	8 HU, 630 mm	55
TWAL 0818-1000E	8 ... 18 GHz	1000 / 1100	60 / 68 ±7.5	15 / 20	6000	21 HU, 800 mm	120

1 HU = 44.45mm

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. für 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 -35 dBm / MHz
Class of Operation:	A-linear

GENERAL

RF Input:	1 ... 18 GHz	N-f; standard on rear panel
	18 ... 40 GHz	2.92 mm-f; standard on rear panel
RF Output:	1 ... 8 GHz	N-f
	6 ... 18 GHz	WRD 650
	8 ... 18 GHz	WRD 750
	18 ... 40 GHz	WRD 180
Sample Port:	-50 dB forward	
Mains Supply:	200 ... 264 V AC	47 ... 63 Hz
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	L) LAN Remote Control

TWAL 8 ... 18 GHz TWT Amplifiers

C) IEEE-488.2 GPIB Remote Control
D) Front Panel RF Connectors
E) Power Indication (digital)
F) Gain Adjustment

N) Harmonic Filter
R) RS-232C Remote Control
U) USB Remote Control