

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 0418-30E	4 ... 18 GHz				800	3 HU, 550 mm	16
	4 ... 4.5 GHz	25 / 30	44 / 54 ±10	0 / 1			
	4.5 ... 6 GHz	30 / 35	44.8 / 55 ±10	1 / 1			
	6 ... 16 GHz	70 / 90	48.5 / 59 ±10	4 / 15			
	16 ... 18 GHz	30 / 35	44.8 / 55 ±10	20 / 20			
TWAL 0418-40E	4 ... 18 GHz				800	3 HU, 550 mm	16
	4 ... 4.5 GHz	30 / 35	44 / 54 ±10	0 / 1			
	4.5 ... 6 GHz	40 / 45	45 / 55 ±10	1 / 1			
	6 ... 15 GHz	70 / 90	49 / 59 ±10	4 / 15			
	15 ... 18 GHz	40 / 45	45 / 55 ±10	20 / 20			
TWAL 0418-100E	4 ... 18 GHz				800	4 HU, 630 mm	20
	4 ... 4.5 GHz	80 / 100	50 / 60 ±10	0 / 3			
	4.5 ... 18 GHz	100 / 120	50 / 60 ±10	1 / 10			

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)	

TWAL 4 ... 18 GHz TWT Amplifiers

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 | L) LAN Remote Control |
| 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 | |