

## 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 0818-20	8 ... 18 GHz	20 / 30	43 / 53 ±10	12 / 20	400	3 HU, 550 mm	21
TWAL 0818-50/35	8 ... 18 GHz				400	3 HU, 550 mm	20
	8 ... 15 GHz	50 / 60	47 / 55 ±7.5	5 / 20			
	15 ... 18 GHz	35 / 50	43 / 51 ±7.5	5 / 20			
TWAL 0818-250	8 ... 18 GHz	250 / 300	54 / 62 ±7.5	8 / 20	1500	3 HU, 630 mm	34
TWAL 0818-250E	8 ... 18 GHz	250 / 300	54 / 62 ±7.5	7 / 15	2000	4 HU, 630 mm	32
TWAL 0818-320	8 ... 18 GHz	320 / 350	55 / 63 ±7.5	6 / 18	1600	3 HU, 630 mm	34
TWAL 0818-500	8 ... 18 GHz	500 / 550	57 / 65 ±7.5	7 / 20	4000	15 HU, 700 mm	115
TWAL 0818-500E	8 ... 18 GHz	500 / 550	57 / 65 ±7.5	7 / 20	3000	8 HU, 630 mm	55
TWAL 0818-1000	8 ... 18 GHz	1000 / 1100	60 / 65 ±5	10 / 20	8000	24 HU, 800 mm	225
TWAL 0818-1000E	8 ... 18 GHz	1000 / 1100	60 / 65 ±5	10 / 20	8000	24 HU, 800 mm	225
TWAL 0818-2000	8 ... 18 GHz	2000 / 2200	63 / 70 ±7.5	10 / 20	16000	41 HU, 800 mm	490

For individual data sheets, please click on the above model name

1 HU = 44.45 mm

## 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:	infinite for no damage (100% mismatch tolerant)
	$P_N$ -0.5 dB min. at VSWR 2:1
Spurious (at $P_N$ ):	-50 dBc typ. (excluding harmonics)
Noise Figure	20 dB max.
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 (up to 1 kW):	1 ... 18 GHz	N-f
	6 ... 18 GHz	WRD 650
	8 ... 18 GHz	WRD 750
	18 ... 26,5 GHz	WR 42
	26,5 ... 40 GHz	WR 28
RF Output (1 kW or more):	1 ... 8 GHz	7-16-f
	8 ... 18 GHz	WRD 750
Mains Supply:	200 ... 240 V AC	47 ... 63 Hz

# TWAL 8 ... 18 GHz TWT Amplifiers

Elapsed Time Meter:	via status display
Ambient Temperature:	0 ... 45 °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 *)	N) Harmonic Filter *)
B) External Dual Directional Coupler	R) RS-232C Remote Control
C) IEEE-488.2 GPIB Remote Control	S) Internal RF Switching Unit *)
D) Front Panel RF Connectors	U) USB Remote Control
E) RF Power Indication (digital) *)	W) Liquid Cooling
F) Gain Adjustment *)	X) External Control of other Amplifiers
G) Output Isolator *)	
L) Remote Control	

\*) These options may reduce output power and/or gain