TWAL 2 ... 8 GHz
TWT Amplifiers

BONN Elektronik
YOUR ULTIMATE RF POWER SOURCE

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 0208-250	2 ... 8 GHz	250 / 300	54 / 62 ±7.5	1 / 5	3000	5 HU, 660 mm	45
TWAL 0208-250E	2.5 ... 8 GHz	250 / 300	54 / 62 ±7.5	3 / 10	2500	4 HU, 630 mm	38
TWAL 0208-300	2 ... 8 GHz	300 / 350	54.8 / 63 ±7.5	0 / 5	3500	5 HU, 660 mm	45
TWAL 0208-500	2.5 ... 7.5 GHz	500 / 550	57 / 62 ±5	5 / 15	3000	4 HU, 630 mm	38
TWAL 0208-500E	2.5 ... 7.5 GHz	500 / 600	57 / 62 ±5	5 / 15	3000	4 HU, 630 mm	30
TWAL 0208-1000	2.5 ... 7.5 GHz	1000 / 1100	60 / 65 ±5	5 / 20	6000	12 HU, 800 mm	100
TWAL 0208-1000E	2.5 ... 7.5 GHz	1000 / 1100	60 / 65 ±5	5 / 20	6000	12 HU, 800 mm	100

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
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

A) RF Monitor Outputs *)
B) External Dual Directional Coupler
C) IEEE-488.2 GPIB Remote Control
D) Front Panel RF Connectors
E) RF Power Indication (digital) *)
F) Gain Adjustment *)
G) Output Isolator *)
L) Remote Control
N) Harmonic Filter *)
R) RS-232C Remote Control
S) Internal RF Switching Unit *)
U) USB Remote Control
W) Liquid Cooling
X) External Control of other Amplifiers

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