TWAL 8 ... 12.75 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 0812-1000	8 ... 12.4 GHz	1000 / 1200	60 / 70 ±10	10 / 20	7000	13 HU, 700 mm	90

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 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 (1 kW):	standard on rear panel	
	>1 ... 10 GHz	N-f
	8 ... 18 GHz	WRD 750
	18 ... 26,5 GHz	WR 42
	26,5 ... 40 GHz	WR 28
RF Output (>1 kW):	standard on rear panel	
	1 ... 8 GHz	7-16-f
	8 to 18 GHz	WRD 750
Gain Adjustment:	<4 GHz	via status display
	>4 GHz	via thumbwheel
RF Monitor Output	-50 dB forward	
Mains Supply:	200 ... 264 V AC	47 ... 63 Hz
Power Meter:	via status display	
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) Reverse Monitor
B) External Dual Directional Coupler
N) Harmonic Filter
R) RS-232C Remote Control

C) IEEE-488.2 GPIB Remote Control
G) Output Isolator
L) LAN Remote control
M) 115 V AC / 47 ... 63 Hz
U) USB Remote Control

1) Combiner is limiting the actual frequency range