

TWAL

26,5 ... 40 GHz

Travelling Wave Tube

Standard Models

Model	Frequency Range	Output Power P_N min W	Gain min / typ dB	Harmonics 2nd / 3rd dBc	Line Power W	Dimensions (H,D) 19"-System	Weight kg
TWAL 2640-40	26,5 ... 40 GHz	40	46 / 52 $\pm$ 6	15 / 20	1200	3+5 HU, 610 mm	41
TWAL 2640-120	26,5 ... 40 GHz	120	50.8 / 57 $\pm$ 6	15 / 20	750	6 HU, 630 mm	45

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. for 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: k-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 8 ... 18 GHz: WRD 750
Gain Adjustment:	via status display (<4 GHz) or via thumbwheel (>4 GHz)
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 ... +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) Reverse Monitor	G) Output Isolator
B) External Dual Directional Coupler	M) 115 V AC / 47 ... 63 Hz
C) IEEE–488.2 GPIB Remote Control	N) Harmonic Filter
	R) RS–232C Remote Control
	U) USB Remote Control
(1)	Combiner is limiting the actual frequency range

Specifications are subject to change without notice

BONN Elektronik GmbH – TWAL 26,5 ... 40 GHz



Rudolf-Diesel-Str.18 · D-85521 Ottobrunn · Tel +49 (0)89/608 754-0 · Fax +49 (0)89/608 754-99
email: info@bonn-elektronik.com · home: www.bonn-elektronik.com