

Test Equipment Solutions Datasheet

Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as spectrum analyzers, signal generators, oscilloscopes, power meters, logic analysers etc from all the major suppliers such as Agilent, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. As such, we fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 1 year warranty. Our staff have extensive backgrounds in T&M, totalling over 150 years of combined experience, which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, presenting flexible technical + commercial solutions and supplying a loan unit during warranty repair, if available.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based at Aldermaston in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our 40GHz in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

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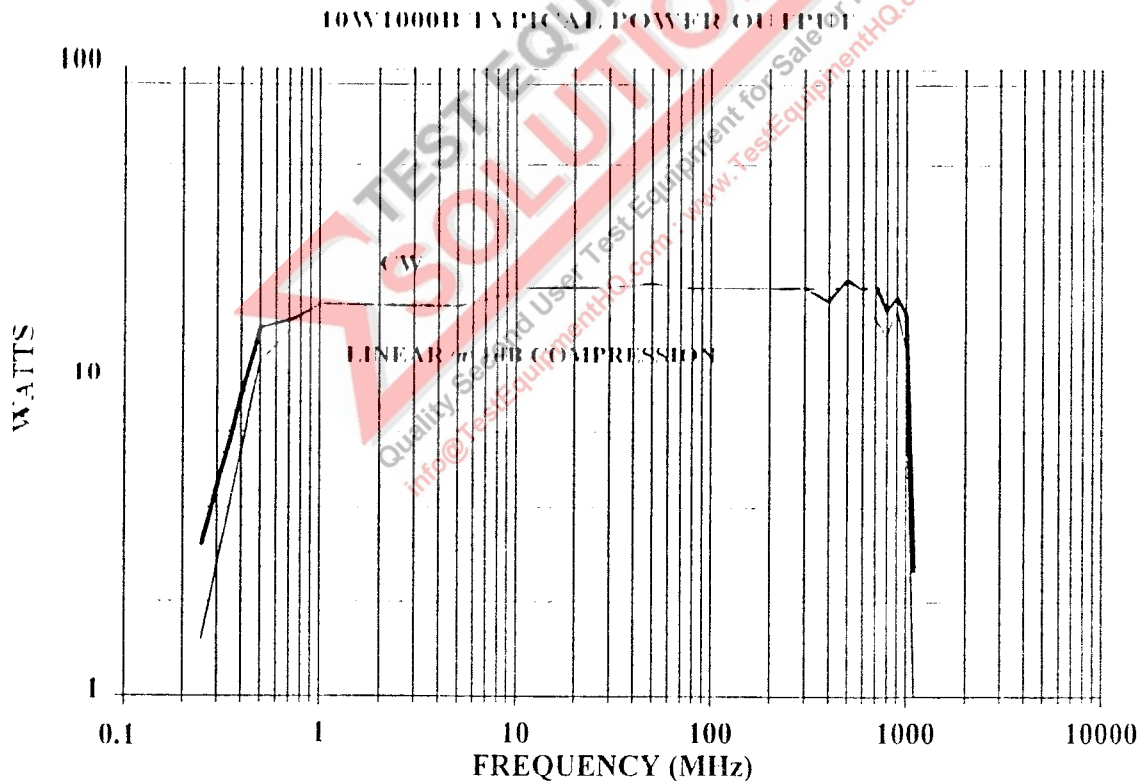
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The Model 10W1000B is a solid state, self-contained, air-cooled, broadband amplifier designed for applications where instantaneous bandwidth and high gain are required. Push-pull circuitry is utilized in the high power stages to lower distortion and improve stability. The 10W1000B, when used with an RF sweep generator, will provide a minimum of 10 watts of swept power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 10W1000B is protected from RF input overdrive by limiting diodes and an RF input leveling circuit which controls the RF input level to the RF amplifier first stage when the RF input level is increased above 0 dBm. The RF Amplifier stages are protected from over temperature by removing the DC voltage to them if an over temperature condition occurs due to cooling blockage or fan failure. There is a fault lamp on the rear panel to indicate an over temperature condition or power supply fault has occurred. The unit can be returned to operate when the fault condition has been cleared.

The 10W1000B utilizes a switching power supply with universal and autoranging input which will automatically accept from 90 to 135 VAC or from 180 to 270 VAC at 47 to 63 Hz.



SPECIFICATIONS

Model 10W1000B

POWER OUTPUT, CW	
Nominal	18 watts
Minimum	10 watts
Linear @ 1dB compression	10 watts minimum
FLATNESS	
	±1.0 dB typical
	±1.5 dB maximum
FREQUENCY RESPONSE	
	500 kHz-1000 MHz instantaneously
INPUT FOR RATED OUTPUT	
	1.0 milliwatt maximum
GAIN (at maximum setting)	
	40 dB minimum
GAIN ADJUSTMENT (Continuous Range)	
	10 dB minimum
INPUT IMPEDANCE	
	50 ohms, VSWR 2.0:1 maximum
OUTPUT IMPEDANCE	
	50 ohms, nominal
MISMATCH TOLERANCE *	
	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
MODULATION CAPABILITY	
	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION	
	Minus 20 dBc maximum at 10 watts
THIRD ORDER INTERCEPT POINT	
	50 dBm typical
PRIMARY POWER (selected automatically)	
	90-135/180-270 VAC
	50/60 Hz, single phase
	300 watts maximum
CONNECTORS	
	Type N female on front panel
COOLING	
	Forced air (self contained fans)
WEIGHT	
	16.0 kg (35 lb)
SIZE (WxHxD)	
	50.3 x 15.5 x 30.0 cm
	19.8 x 6.1 x 11.8 in

* See Application Note #27