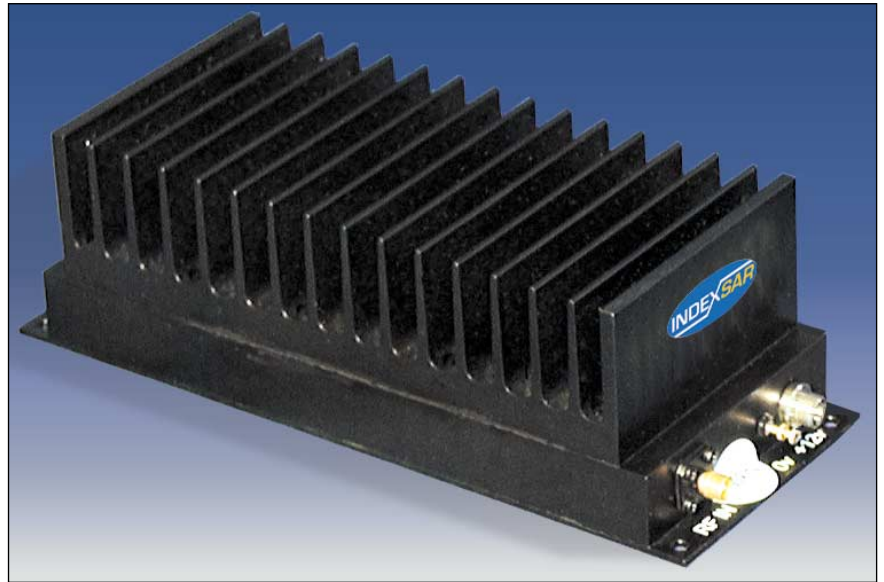




VTL 5400 Amplifier

10 - 2500MHz 3W

- **Low noise figure**
- **High spectral purity**
- **Flexible operating conditions**



- **3 Watts at 1dB Gain Compression**

Model VTL 5400 gives 3W output power from 10MHz to 2.5GHz in one band, and with a minimum gain of 38dB, the amplifier can be driven from any convenient signal generator or sweep oscillator.

- **Low Noise Figure**

For applications requiring high signal to noise ratio, the amplifier offers a typical noise figure of 6dB, and with a 1/f corner frequency below the operating band of the amplifier, this low noise figure is maintained right down to the lower band edge.

- **High Spectral Purity**

Where spectral purity is an issue, harmonic reduction techniques in the design give a typical worst case harmonic performance of -30dBc at rated power, and 3rd order intercept point of 48dBm.

- **Flexible Operating Conditions**

The amplifier operates from a 12V supply with an economical current requirement of 1.65A. Specified operation is achieved with a wide range of supply voltage and thus is suitable for battery operation, whether the battery is under load or on charge. In addition, the amplifier will continue to operate with a supply voltage as low as 7V albeit with reduced performance, and so will give system tolerance to power supply brownouts. The amplifier is supplied with heat-sink, suitable for operation with convection cooling under normal circumstances.

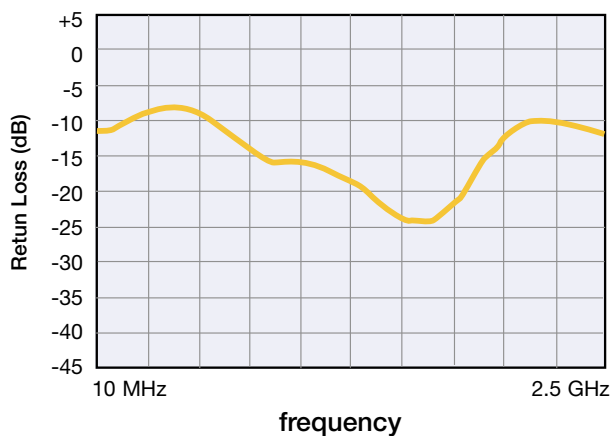
The heat-sink is removable for system integration.

- **Applications**

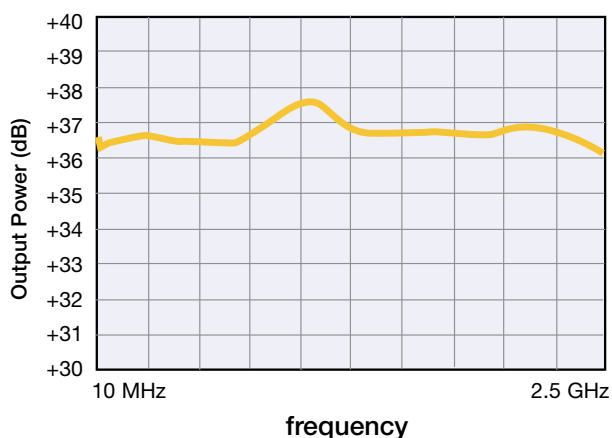
Applications include: high power buffer for signal generators, high level driver for high speed digital/analogue signals, multi-band communication systems and general laboratory use.

It is ideal for SAR probe calibration.

Output Return Loss (Typical)



Output Power with 0dBm input (Typ.)



Specification

	Min	Typ	Max	Units
Frequency	10		2500	MHz
Output Power at 1dB gain compression	3			W
Small Signal Gain	38			dB
Gain Ripple	3			dB
3rd Order Intercept Point		48		dBm
Noise Figure		6		dB
Harmonics at rated power		-30	-25	dBc
Input and Output Mis-match Tolerance	inf : 1			
Input VSWR			2:1	
Output VSWR			3:1	
Supply Voltage	11	12	16	V
Supply Current		1.65	2	A
Operating Temperature Range	0		50	°C
RF Connectors	SMA female			
Dimensions	195L x 75W x 60D mm			
Weight	1.1 kg			



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