

# OTA-1000

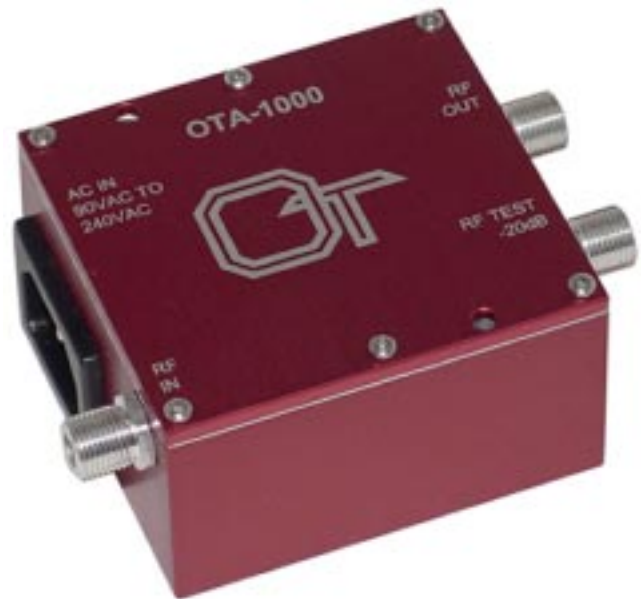
## WIDEBAND LOW NOISE PUSH PULL AMPLIFIER

### Features / Benefits

The **OLSON TECHNOLOGY INC. OTA-1000** is a completely self contained miniature wideband push-pull amplifier with a built-in 90 VAC to 240 VAC power supply. This unit is capable of operation a +40dBmV carrier to 550MHz and 6dB reduced digital loading to 870MHz with CSO and CTB being >65dB. The small size (2.5 X 2.7 X 1.5) of this unit makes it ideal for laser driver applications or for instrumentation setups.

### FEATURES

- Bandwidth from 48MHz to 1GHz
- Push-pull design for excellent CSO/CTB
- 22dB minimum gain
- Universal internal power supply with IEC connector
- -20dB test point
- No additional heat sink required
- Low noise <4.5dB N.F.



### SPECIFICATIONS

Input / Output Frequency:.....	48MHz to 1GHz	I.M. Distortion:.....	CSO / CTB >65dB below 77 output carriers at +40dBmV 54MHz to 550MHz. Digital loading at 6dB down from 550MHz to 870MHz.
Noise Figure:.....	4.5dB typical	Output Power For 1dB Gain Compression:.....	+23dBm (typical)
Minimum Gain:.....	22dB (48MHz to 1GHz)	RF Connectors:.....	Type F - In, Out, Test
Gain Variation:.....	<± .75dB (48MHz to 870MHz)	Power Connector:.....	IEC 320 male receptacle
Input / Output Return Loss:.....	>15dB (48MHz to 870MHz)	Power Requirements:.....	90 VAC to 240 VAC @ 50-60Hz, 5 watts max.
	>10dB (870MHz to 1GHz)	Operating Temperature Range.....	-40°C to +60°C
Output Test Point:.....	-20dB		
Test Point Return Loss:.....	>15dB		