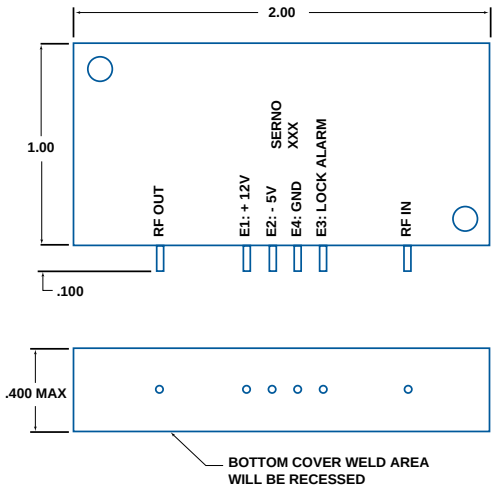
SPECIAL FEATURES

- Small Size: 0.8 cubic inches and 2.3 ounces
- Low Power Dissipation: 1.4 W
- Low Phase Noise: - 105 dBc/Hz @ 10 kHz
- Wide Operating Temperature: - 30 to + 85 °C

This model is a thin-film, hybrid microelectronics Phase Locked Oscillator housed in a hermetically sealed Kovar housing. The circuitry is printed on three alumina substrates loaded with active dies, tantalum nitride resistors and ceramic capacitors. Interconnections are made using a combination of wedge and ball bonded gold wires and internal feedthroughs.

ELECTRICAL SPECIFICATIONS

Operating Frequency:	11.95 GHz
Reference Input:	50 MHz @ + 7 dBm, minimum
Frequency Stability:	Same as input reference signal
Warm-Up Time:	1 second, maximum
Output Power:	+ 10 to + 13 dBm, typical
VSWR:	1.5:1, nominal
SSB Phase Noise (dBc/Hz, typical):	
offset	
10 Hz	- 40
100 Hz	- 70
1 kHz	- 95
10 kHz	- 105
100 kHz	- 105
10 MHz	- 145
Spurious:	> - 60 dBc, typical
Harmonics:	> - 30 dBc, typical
BITE Scheme:	Phase Lock (TTL "1" = Lock)
DC Power:	+ 12 V ± 5 % @ 130 mA, nominal
	- 5 V ± 5 % @ 10 mA, nominal
Power Consumption:	1.6 W, nominal

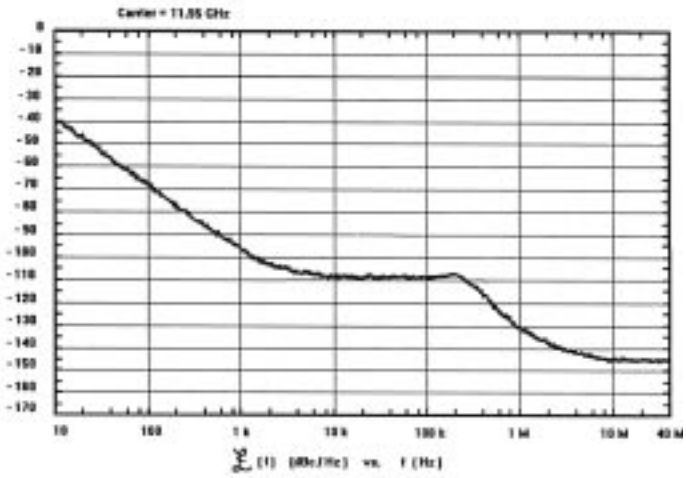


ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	- 30 to + 85 °C, baseplate
Environment:	Ground and Space

MECHANICAL SPECIFICATIONS

Size: (excluding connectors)	2 x 1 x 0.4 inches
	51 x 25 x 10 mm
Weight:	2.3 oz (65.2 g), nominal



Specifications subject to change without notice.