

FLO-4-130 Multi Output Phase Locked Oscillator

FEATURES

- Up to 4 Phase Locked Frequencies
- 100 MHz to 40 GHz Frequency Coverage
- Low Phase Noise, -95 dBc/Hz @ 10 kHz offset, 22 GHz
- Low Spurious < 60 dBc
- MIL-STD Screening

APPLICATIONS

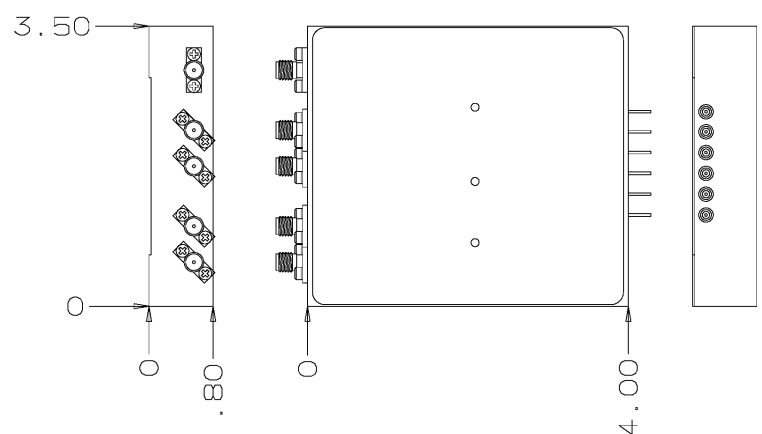
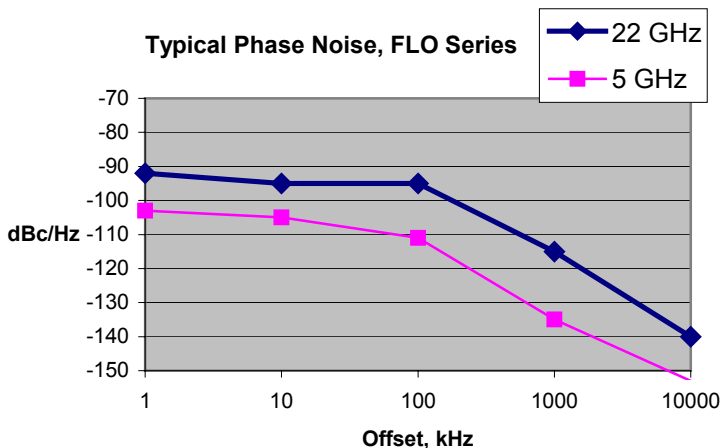
- EW / SIGINT
- Radar Systems
- Up / Down-conversion
- Instrumentation / Test Module



DESCRIPTION

The Spinnaker Microwave FLO series phased locked oscillator creates up to 4 unique frequencies on shared or multiple outputs, providing a variety of low noise fixed output frequencies from 1 to 40 GHz. All control, switching, and voltage regulation circuits are integrated into one compact module thus providing a highly integrated and small form package. The design utilizes advanced MMIC technology to reduce part count, complexity and manufacturing cost while increasing reliability. VCO technology ensures the best vibration and microphonic performance. The housing is machined to facilitate a welded seal of all covers ensuring compliance with MIL-STD fine leak testing.

Typical Phase Noise, FLO Series



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PERFORMANCE SPECIFICATIONS *

PARAMETER	VALUE	OPTIONS
Frequency Range	1 – 40 GHz	
Bandwidth	Fixed, up to 4 outputs	
Step Size	N/A	
Tuning Speed	< 1 us, shared outputs	
Output Power	+ 13 dBm	+ 20 dBm
Power Variation	+/- 2 dB	+/- 1 dB
Harmonics	-20 dBc	-45 dBc
Spurious	-60 dBc	-70 dBc
Phase Noise (typical @ 22 GHz)		
1 kHz	-92 dBc/Hz	
10 kHz	-95 dBc/Hz	
100 kHz	-95 dBc/Hz	
1 MHz	-115 dBc/Hz	
Frequency Accuracy	same as reference	
Input Reference Frequency	50-200 MHz	
Input Reference Power	-3 to +3 dBm	
Programming	TTL Enable, Lock Detect	
Supply Voltage	+5 VDC, 800 mA +15 VDC, 200 mA	+5 VDC only
Environmental		
Vibration	(as required)	
Shock	(as required)	
Operating Temp	-20 to +75 deg. C	-41 to +85 deg. C
Physical	3.5" x 4.0" x 0.8", SMA(F)	Custom Package

* Other configurations available, consult factory



Certificate # A2498US