



GENERAL DESCRIPTION

The LCO Series is a legendary calibration oscillator in a connectorized package. Due to its extremely low output power variation, the LCO Series is *the* solution for tests requiring extremely stable output power and other multi-tone intermodulation tests. It is also utilized in satellite communications, radar, and other instrumentation.

LCO SERIES FEATURES

- Connectorized package 4.5" x 2.5" x 0.6"
- Extremely low output power variation:
with temperature 0 to 50°C (± 0.2 dB)
with power cycle (± 0.05 dB)
- Programmable step sizes as low as 250 kHz
- Low Phase Noise

LCO SERIES OPTIONS

- Fixed or programmable frequencies from 1 to 30.5 GHz (within selected bands)
- Output power up to +10 dB
- External or internal reference options
- External reference available from 5 to 100 MHz
- Temperature ranges up to -40°C to +85°C

GENERAL SPECIFICATIONS

External Reference	5 to 100 MHz
Internal Reference	± 1 ppm, Stability
Power Output	Up to +10 dBm
P _{out} Stability	± 0.2 dB Max
Harmonics	-25 dBc Typical
Spurs	-60 dBc Typical
Supply Options	+5 VDC Typical
Current	225 to 850 mA
Programming Interface	USB



TYPICAL APPLICATIONS

- Satellite communications
- Test oscillators requiring extremely stable output power
- Multi-Tone intermodulation tests
- Radar
- Instrumentation

PHASE NOISE (dBc / Hz)

Offset	2.27 GHz	20.7 GHz	30.5 GHz
1 KHz	-95	-80	-75
10 KHz	-100	-95	-90
100 KHz	-125	-95	-95
1 MHz	-145	-115	-110

Final product specifications will vary upon customer's parameters

See more at
WWW.EMRESEARCH.COM



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