TK961 – VOLTAGE CONTROLLED CRYSTAL OSCILLATOR

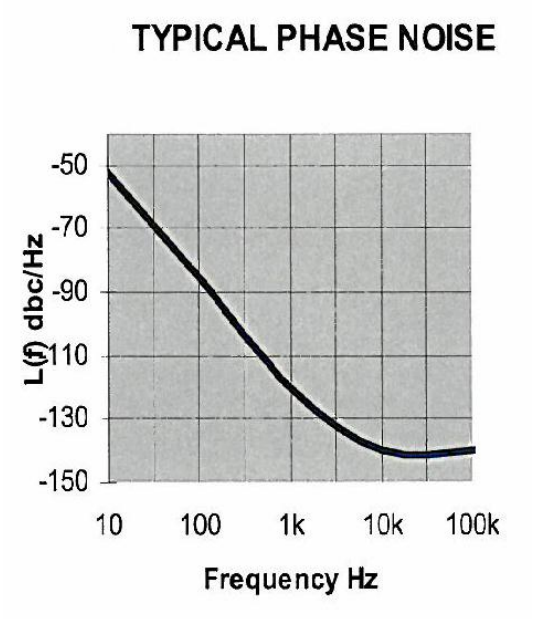
TECHNICAL FEATURE

FEATURES

- Low Operating Power
- Non-ovenized Design
- Wide Frequency Deviation

PERFORMANCE

Output frequency ..... 390 MHz
Frequency Deviation..... +50 KHz
Linear Distortion ..... <1%c
Sub-Harmonics ..... -65 dBc
<3 ppm Stability from ..... -40˚C to +85˚ C
Short Term Stability 6E-10/sec
Dimensions..... 2" x 1.5" x 4"



DESCRIPTION

The unit incorporates a unique design that combines the frequency deviation of voltage controlled crystal oscillator with the stability of a temperature compensated crystal oscillator. Designed for use in a flightline environment, this oscillator combines unique features to meet demanding performance specifications.

Frequency tuning deviation is > ± 50 KHz with the error from the best straight line <1%. This is achieved with careful balancing of component parameters and alignment techniques.

Using frequency multiplication the output frequency is 390 MHz and exhibits short-term stability and phase noise equal to many fixed oscillators.
This device can be customized to meet particular systems needs and requirements.

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