

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 $> \pm 50$ 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.

TYPICAL PHASE NOISE

