Z-Communications, Inc.
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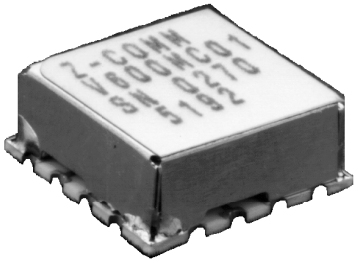
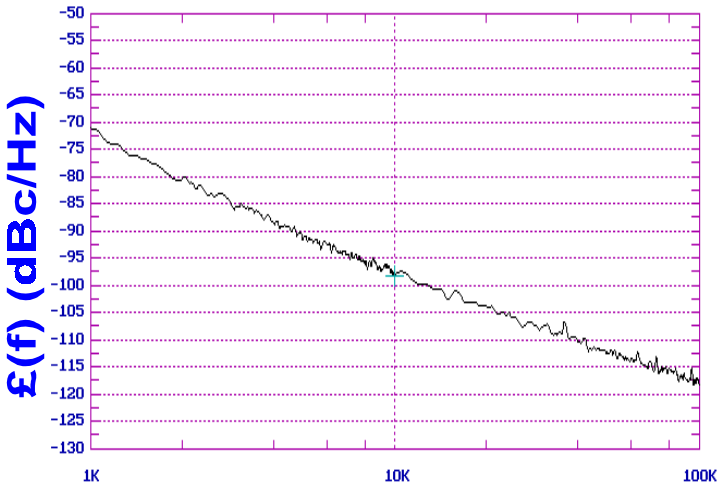
V614ME09

VOLTAGE CONTROLLED OSCILLATOR

Rev A1



PHASE NOISE (1 Hz BW, typical)



OFFSET (Hz)

FEATURES

- Frequency Range: 1650 - 2250 MHz
- Tuning Voltage: 2-12 Vdc
- MINI-14S-L - Style Package

APPLICATIONS

- Portable Radios
- PCS
- Downconvertors

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	1650 - 2250	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-98	dBc/Hz
Harmonic Suppression (2nd, typ.)	-12	dBc
Tuning Voltage	2-12	Vdc
Tuning Sensitivity (avg.)	80	MHz/V
Power Output	5±2	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	100	pF
Pushing	<4	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<14	MHz
Operating Temperature Range	-40 to 75	°C
Package Style	MINI-14S-L	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	12	Vdc
Supply Current (Icc, typ.)	21	mA

All specifications are typical unless otherwise noted and subject to change without notice.

APPLICATION NOTES

- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

NOTES:

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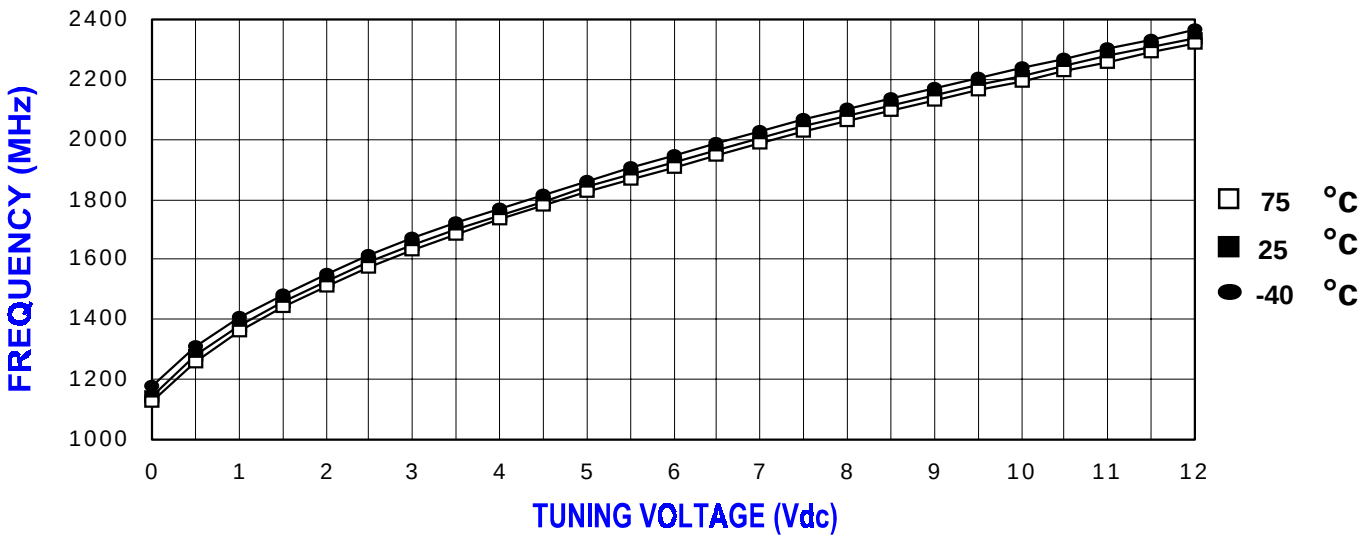
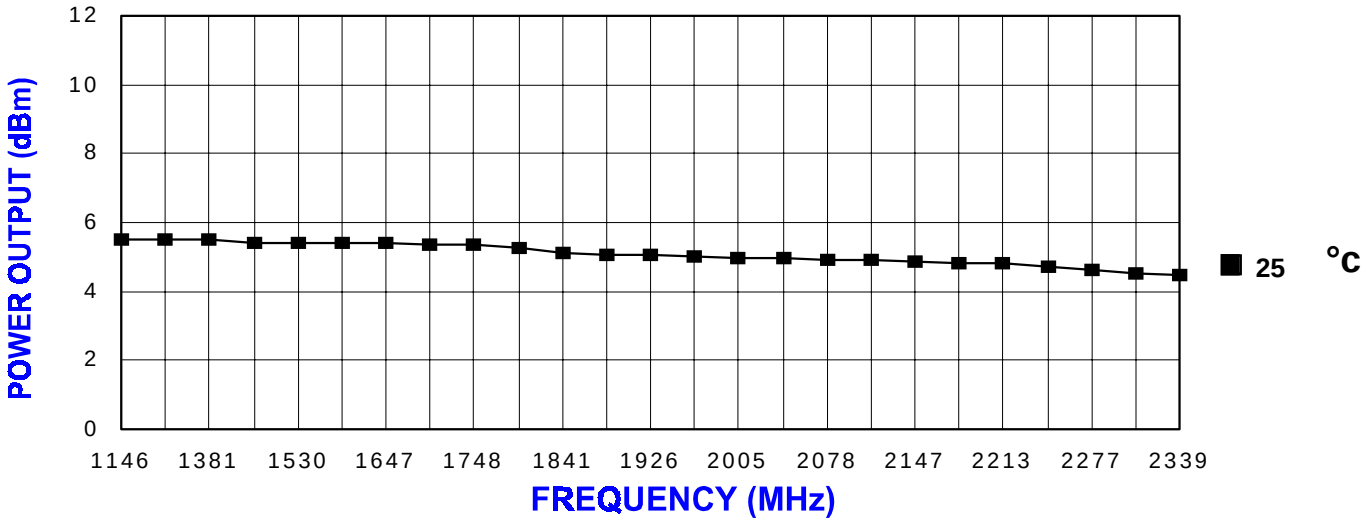
LOW COST - HIGH PERFORMANCE

TUNING CURVE, typ.



POWER CURVE, typ.



PHYSICAL DIMENSIONS

