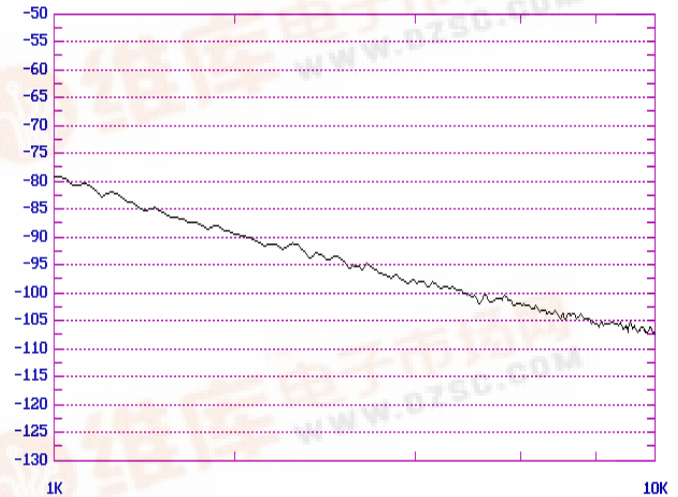



Z-Communications, Inc.

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V583TE08
VOLTAGE CONTROLLED OSCILLATOR

Rev A1


PHASE NOISE (1 Hz BW, typical)
 $L(f)$ (dBc/Hz)

OFFSET (Hz)
FEATURES

- Frequency Range: 1012 - 1040 MHz
- Tuning Voltage: 0.5-4.5 Vdc
- 375 - Style Package

APPLICATIONS

- Digital Radios
- Satellite Communications
- Basestations

PERFORMANCE SPECIFICATIONS
VALUE
UNITS

Oscillation Frequency Range	1012 - 1040	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-107	dBc/Hz
Harmonic Suppression (2nd, typ.)	-35	dBc
Tuning Voltage	0.5-4.5	Vdc
Tuning Sensitivity (avg.)	26	MHz/V
Power Output	-2±2	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	100	pF
Pushing	<2	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<5	MHz
Operating Temperature Range	-30 to 85	°C
Package Style	375	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	20	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:


LOW COST - HIGH PERFORMANCE
VOLTAGE CONTROLLED OSCILLATOR

