



Z-Communications, Inc.

9939 Via Pasar • San Diego, CA 92126
TEL (619) 621-2700 FAX (619) 621-2722

V626ME01

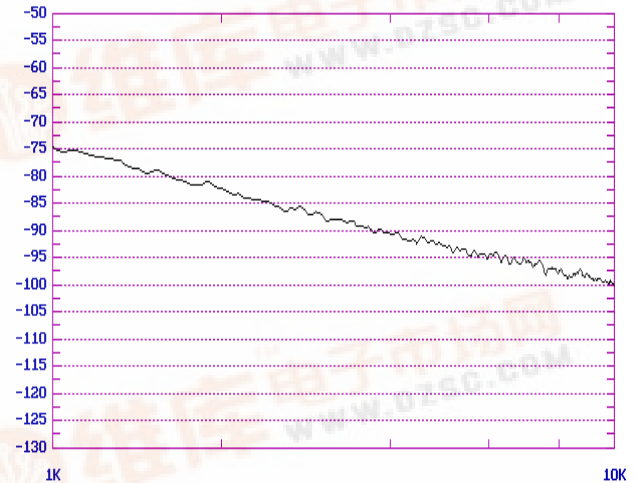
VOLTAGE CONTROLLED OSCILLATOR

Rev A1



PHASE NOISE (1 Hz BW, typical)

$\mathcal{L}(f)$ (dBc/Hz)



OFFSET (Hz)

FEATURES

- Frequency Range: 1990 - 2380 MHz
- Tuning Voltage: 0.5-15 Vdc
- MINI-14H-LOW- Style Package

APPLICATIONS

- Digital Radios
- Earthstations
- Satellite Modems

PERFORMANCE SPECIFICATIONS

VALUE

UNITS

Oscillation Frequency Range	1990 - 2380	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-100	dBc/Hz
Harmonic Suppression (2nd, typ.)	-6	dBc
Tuning Voltage	0.5-15	Vdc
Tuning Sensitivity (avg.)	51	MHz/V
Power Output	10.25±2.75	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	25	pF
Pushing	<5	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<15	MHz
Operating Temperature Range	-30 to 85	$^{\circ}\text{C}$
Package Style	MINI-14H-LOW	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	9	Vdc
Supply Current (Icc, typ.)	18	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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