



Z-Communications, Inc.

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

V805ME02

VOLTAGE CONTROLLED OSCILLATOR

Rev D4



FEATURES

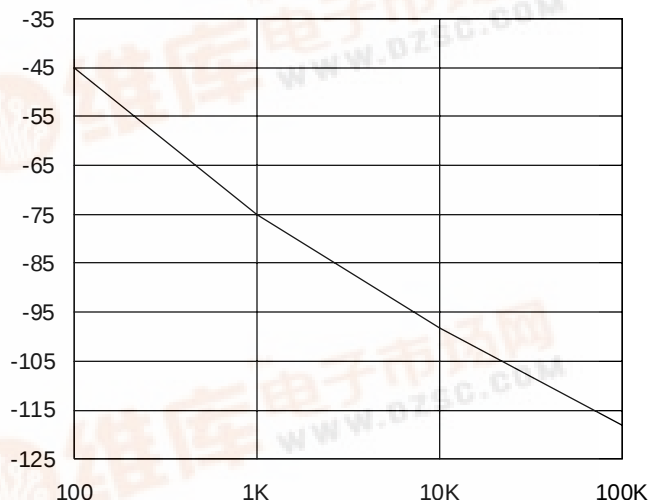
- Frequency Range: 2500 - 2700 MHz
- Tuning Voltage: 1.5-10.5 Vdc
- MINI-14H- Style Package

APPLICATIONS

- Broadcast Communications
- Satellite Communications
- Earthstations

PHASE NOISE (1 Hz BW, typical)

$L(f)$ (dBc/Hz)



OFFSET (Hz)

PERFORMANCE SPECIFICATIONS

VALUE

UNITS

Oscillation Frequency Range	2500 - 2700	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-98	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Tuning Voltage	1.5-10.5	Vdc
Tuning Sensitivity (avg.)	41	MHz/V
Power Output	8.5±2.5	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	50	pF
Pushing	<2	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<20	MHz
Operating Temperature Range	-40 to 70	°C
Package Style	MINI-14H	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	10	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

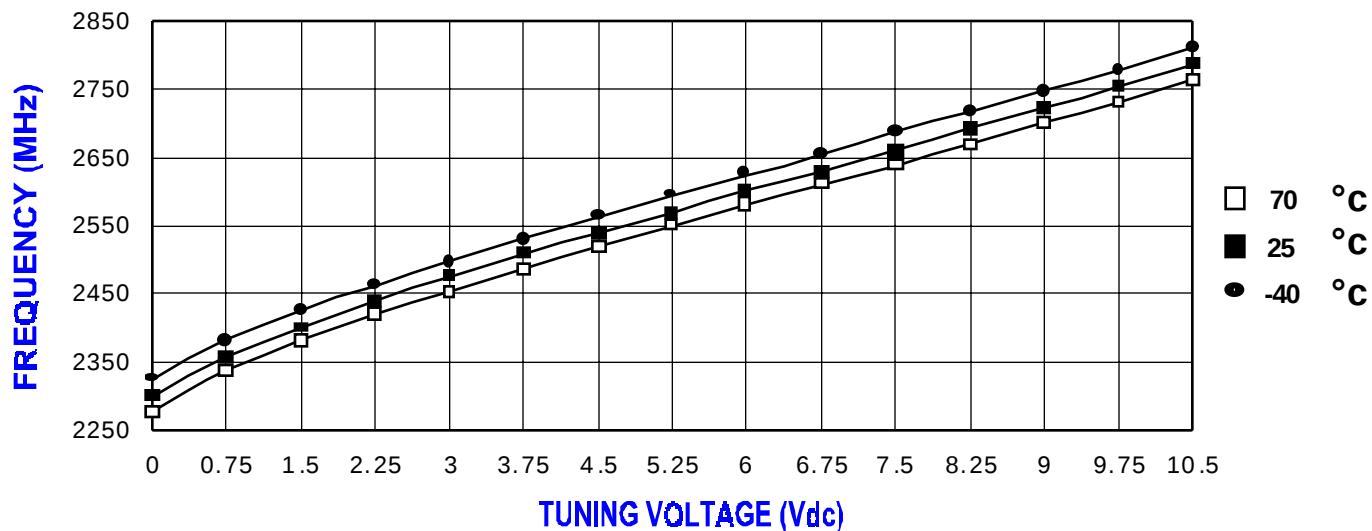
NOTES:



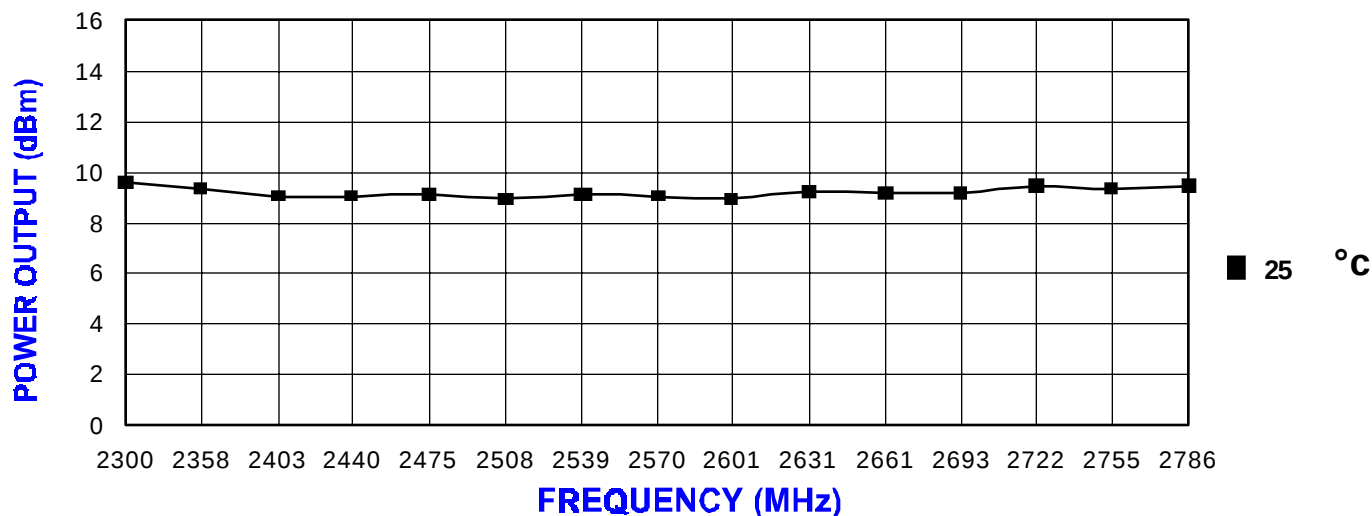
**LOW COST - HIGH PERFORMANCE
VOLTAGE CONTROLLED OSCILLATOR**

V805ME02
PAGE 2

TUNING CURVE, typ.



POWER CURVE, typ.



PHYSICAL DIMENSIONS

