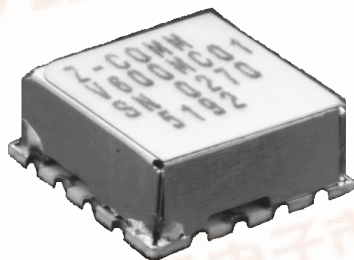


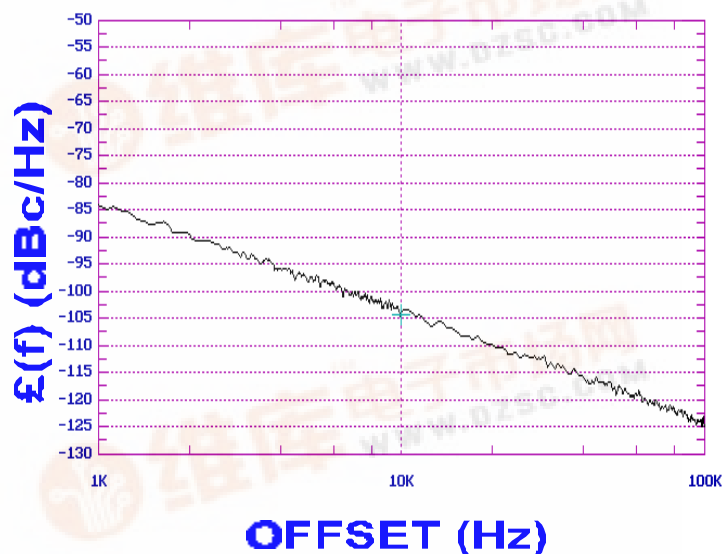
V140MC10

VOLTAGE CONTROLLED OSCILLATOR

Rev C3



PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 104 - 176 MHz
- Tuning Voltage: 1-9.5 Vdc
- MINI-14S - Style Package

APPLICATIONS

- Satellite Modems
- Test Equipment
- Portable Radios

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Oscillation Frequency Range	104 - 176	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-105	dBc/Hz
Harmonic Suppression (2nd, typ.)	-5	dBc
Tuning Voltage	1-9.5	Vdc
Tuning Sensitivity (avg.)	12	MHz/V
Power Output	2.75±3.75	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	50	pF
Pushing	<2	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<2	MHz
Operating Temperature Range	0 to 70	°C
Package Style	MINI-14S	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	10	Vdc
Supply Current (Icc, typ.)	30	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
VOLTAGE CONTROLLED OSCILLATOR

