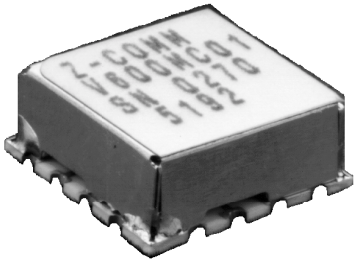
Z-Communications, Inc.
9939 Via Pasar • San Diego, CA 92126
TEL (858) 621-2700 FAX (858) 621-2722

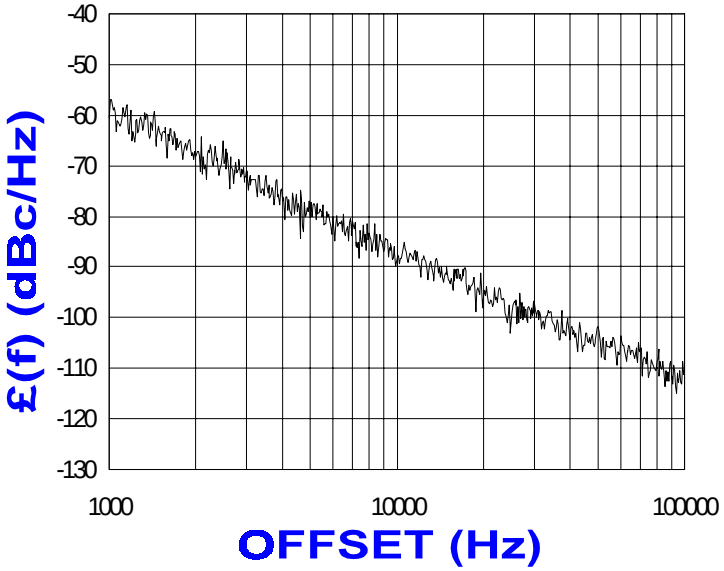
V844ME03

VOLTAGE CONTROLLED OSCILLATOR

Rev A1



PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 3610 - 3790 MHz
- Tuning Voltage: 0.5-4.5 Vdc
- MINI-14S-L - Style Package

APPLICATIONS

- Direct Broadcast
- Satellite Up/Down Conversion
- Microwave Links

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	3610 - 3790	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-87	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Tuning Voltage	0.5-4.5	Vdc
Tuning Sensitivity (avg.)	79	MHz/V
Power Output	2.5±1.5	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	50	pF
Pushing	<3	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<10	MHz
Operating Temperature Range	-40 to 85	°C
Package Style	MINI-14S-L	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	13	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:

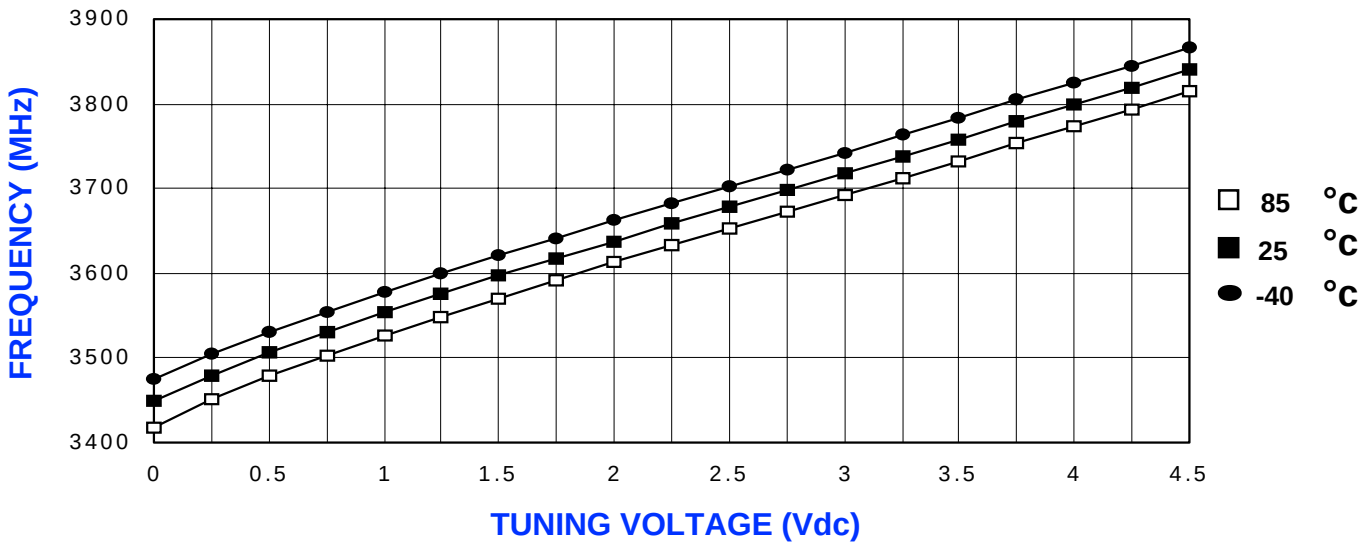
Phase Noise @ 100 kHz offset (1 Hz BW, typ.): -111 dBc/Hz

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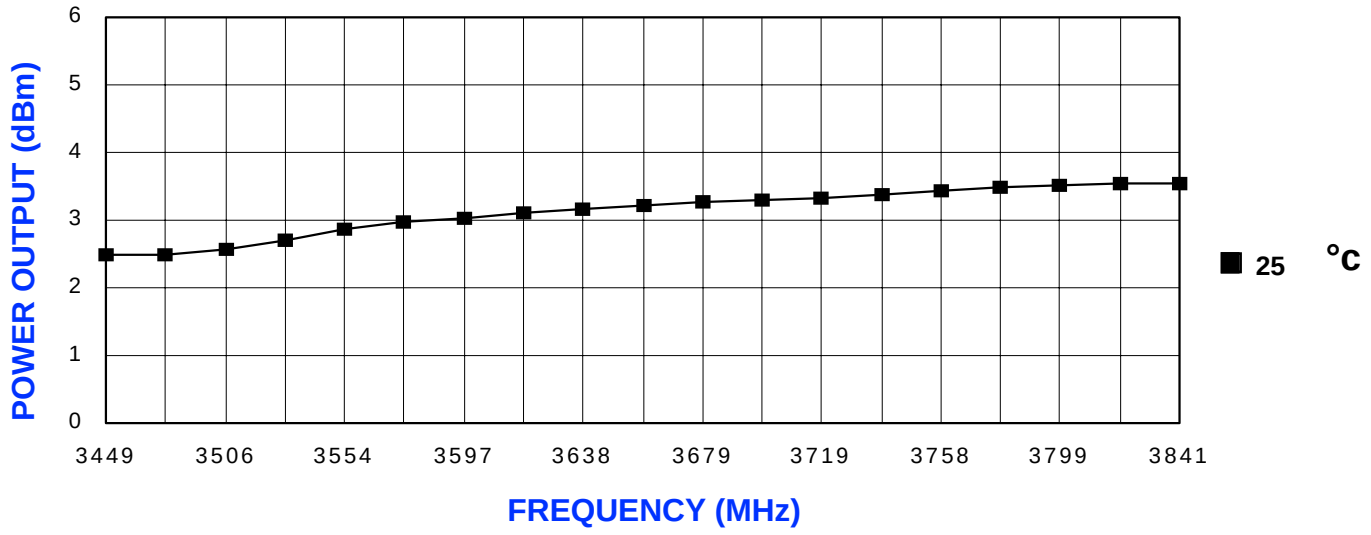
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LOW COST - HIGH PERFORMANCE

TUNING CURVE, typ.



POWER CURVE, typ.



PHYSICAL DIMENSIONS

