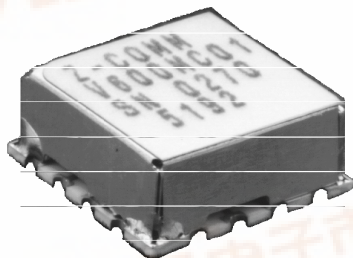


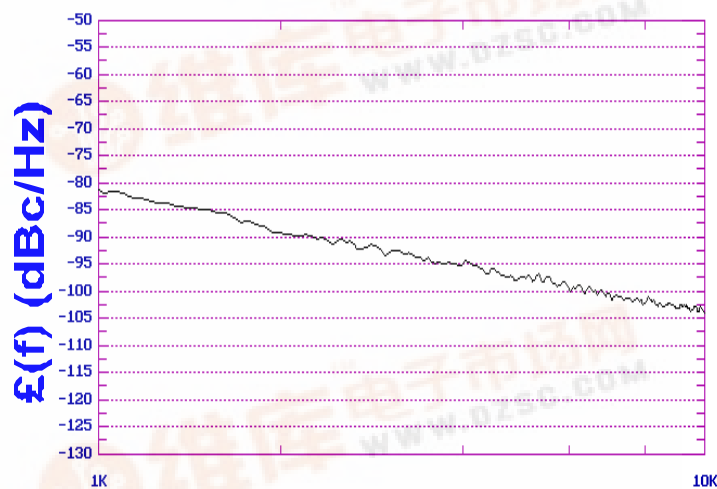
V582ME12

VOLTAGE CONTROLLED OSCILLATOR

Rev A1



PHASE NOISE (1 Hz BW, typical)



OFFSET (Hz)

FEATURES

- Frequency Range: 1025 - 1075 MHz
- Tuning Voltage: 1-4 Vdc
- MINI-16-L - Style Package

APPLICATIONS

- Basestations
- Portable Radios
- Mobile Communications

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Oscillation Frequency Range	1025 - 1075	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-103	dBc/Hz
Harmonic Suppression (2nd, typ.)	-10	dBc
Tuning Voltage	1-4	Vdc
Tuning Sensitivity (avg.)	40	MHz/V
Power Output	12±2	dBm
Load Impedance	50	?
Input Capacitance (max.)	50	pF
Pushing	<2	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<9	MHz
Operating Temperature Range	-40 to 85	°C
Package Style	MINI-16-L	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	30	mA

All specifications are typical unless otherwise noted and subject to change without notice.

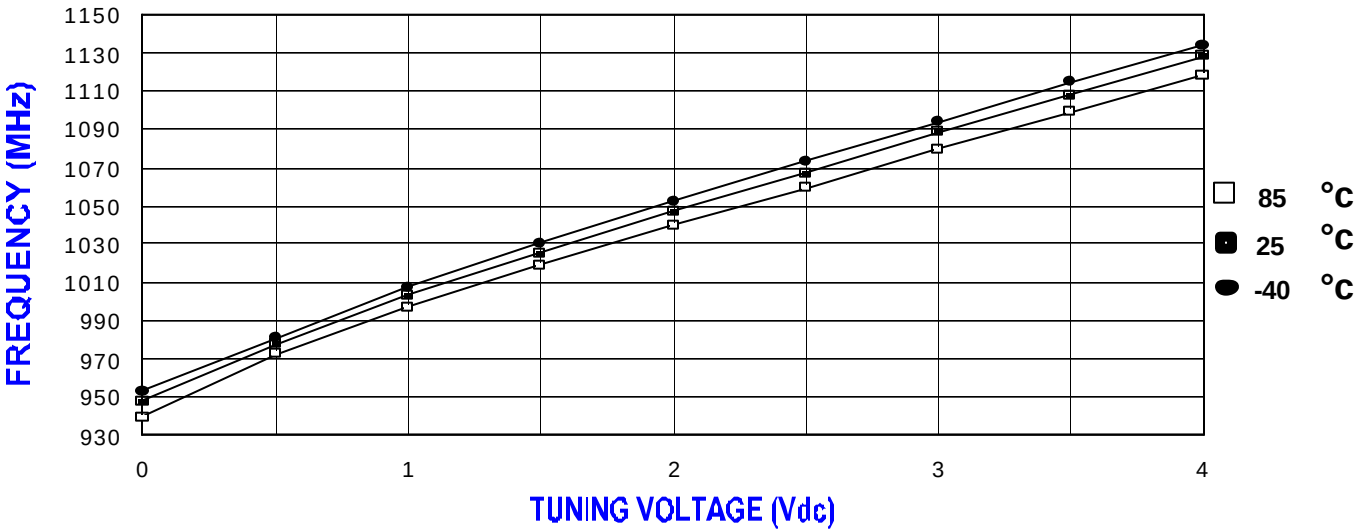
APPLICATION NOTES

- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

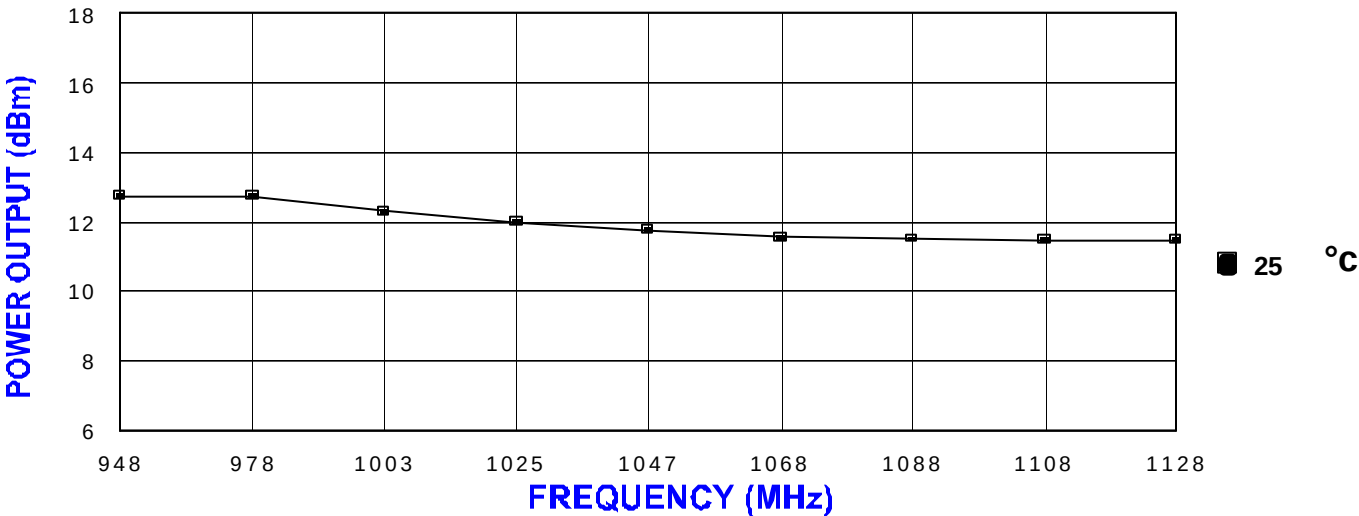
NOTES:

LOW COST - HIGH PERFORMANCE
VOLTAGE CONTROLLED OSCILLATOR

TUNING CURVE, typ.

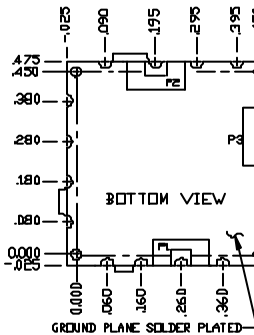


POWER CURVE, typ.



PHYSICAL DIMENSIONS

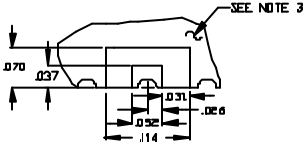
MINI-16-L
415-0064 REV.B
(DRAWING NOT TO SCALE)



TABS RANGE FROM
0.006 - 0.010
(4 PLACES)

SEE DETAIL 'A'

TYPICAL OF ALL PADS



NOTES:

1. THE INSIDE RADIUS OF ALL 16 HALF HOLES AT THE PERIMETER OF THE BOARD ARE SOLDER PLATED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE VCO TO A MOTHERBOARD, IN 13 LOCATIONS, WITH 3 PADS BEING USED FOR ELECTROMECHANICAL INTERFACE. 16 SOLDER LOCATIONS REQUIRED.
2. THE SURFACE OF THE SHIELD IS TIN PLATED AND MAY BE SOLDERED TO THE SHIELD'S BASE METAL IS BRASS.
3. THE GROUND PLANE IS GROUND AND ATTACHES TO A GROUND TRACK ON THE UPPER SIDE OF THE BOARD AS WELL AS THE SHIELD BY PTH.
4. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES.
5. UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS FOLLOWS:
TOLERANCES
XXX = ± .010

P1=VT
P2=RF OUT
P3=VCC

