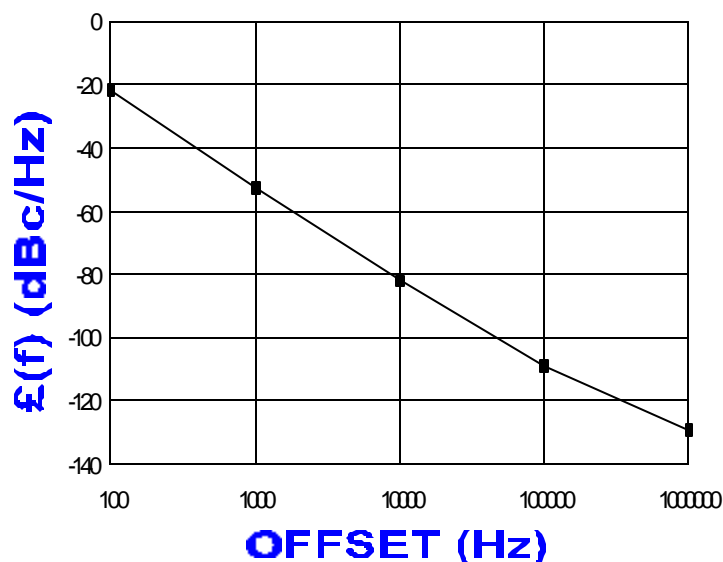


**PHASE NOISE (1 Hz BW, typical)**



#### FEATURES

- Frequency Range: 4020 - 4330 MHz
- Tuning Voltage: 1.5-11 Vdc
- MINI-14S-L - Style Package

#### APPLICATIONS

- Microwave Radios
- Satellite Communications
- Direct Broadcast

#### PERFORMANCE SPECIFICATIONS

#### VALUE

#### UNITS

Oscillation Frequency Range	4020 - 4330	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-82	dBc/Hz
Harmonic Suppression (2nd, typ.)	-30	dBc
Tuning Voltage	1.5-11	Vdc
Tuning Sensitivity (avg.)	46	MHz/V
Power Output	0±3	dBm
Load Impedance	25	Ω
Input Capacitance (max.)	50	pF
Pushing	<12	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<12	MHz
Operating Temperature Range	-35 to 80	°C
Package Style	MINI-14S-L	

#### POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	26	mA

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

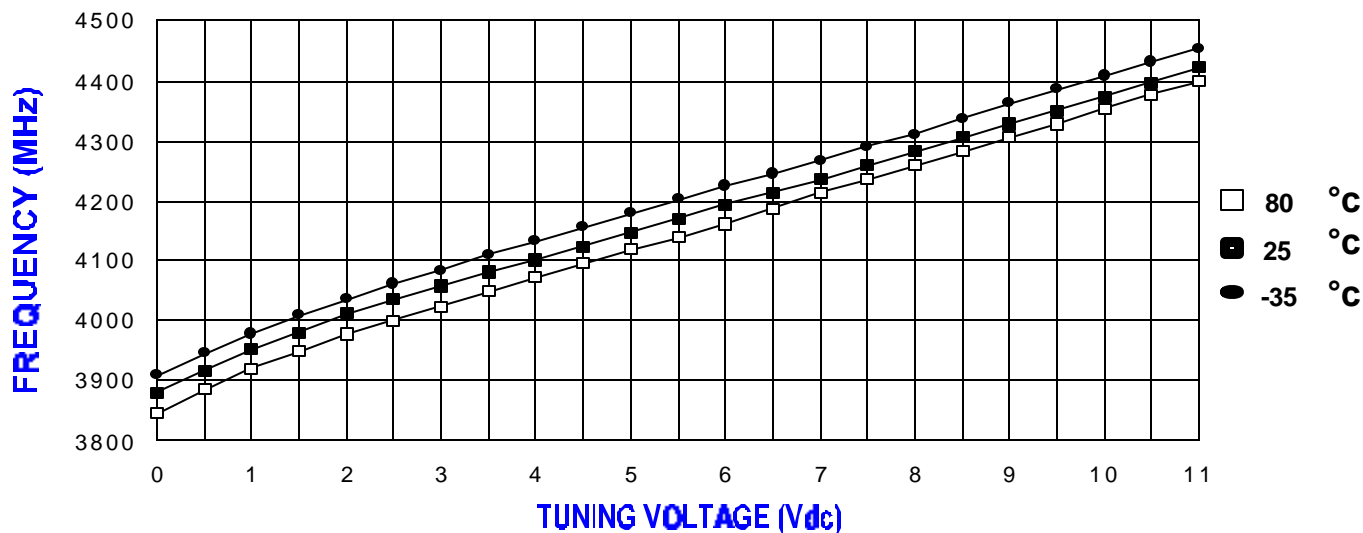
#### APPLICATION NOTES

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

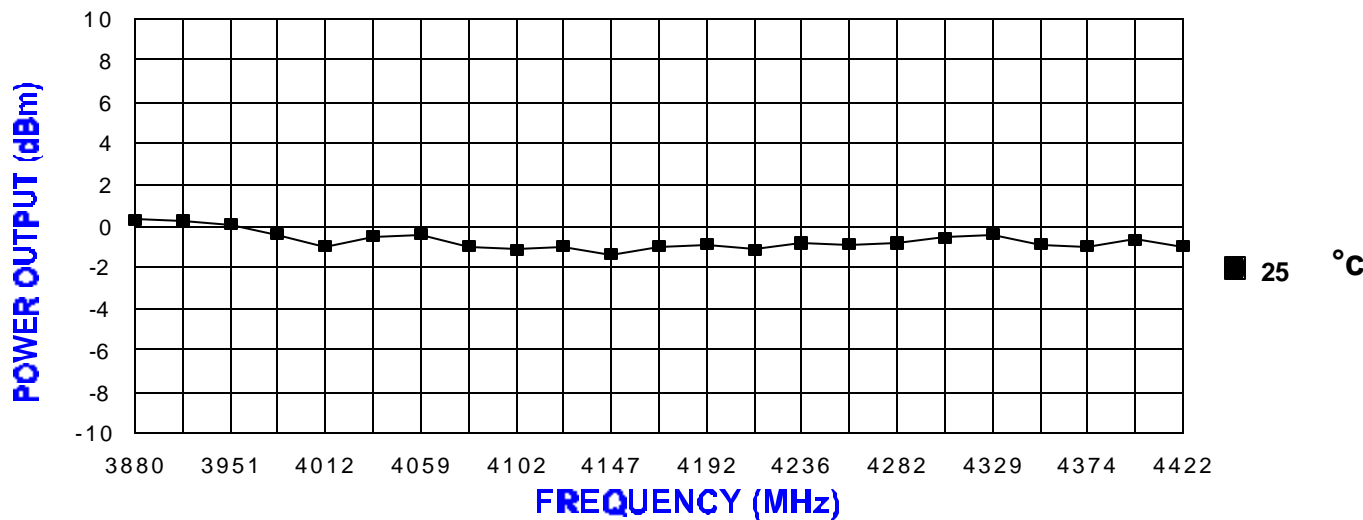
#### NOTES:

Phase Noise @ 100 kHz offset (1 Hz BW, typ.): -109 dBc/Hz

TUNING CURVE, typ.

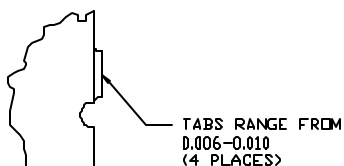
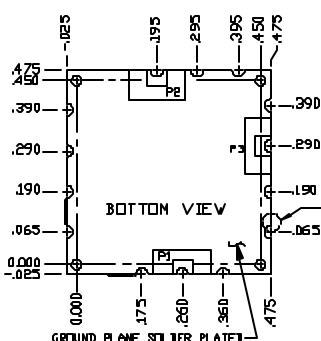


POWER CURVE, typ.

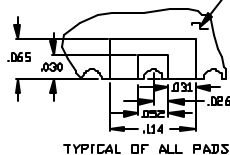


PHYSICAL DIMENSIONS

MINI-14S-L  
415-0063 REV. B  
(DRAWING NOT TO SCALE)



SEE DETAIL 'A'  
TYPICAL OF ALL PADS



- NOTES:
1. THE INSIDE RADIUS OF ALL 1/4 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 11 LOCATIONS, WITH 3 PADS BEING USED FOR ELECTRICAL MECHANICAL INTERFACE. 14 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

