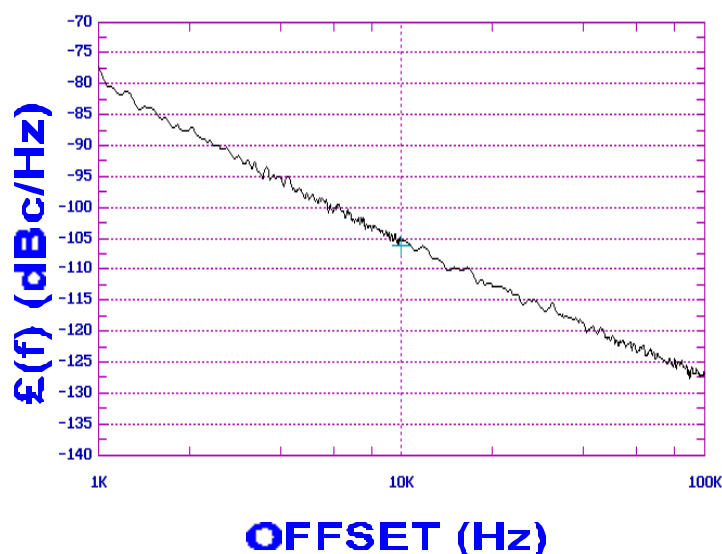




PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 2110 - 2170 MHz
- Tuning Voltage: 0.5-4.5 Vdc
- MINI-14S - Style Package

APPLICATIONS

- WLAN
- Digital Radios
- Earthstations

PERFORMANCE SPECIFICATIONS

VALUE

UNITS

Oscillation Frequency Range	2110 - 2170	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-105	dBc/Hz
Harmonic Suppression (2nd, typ.)	-30	dBc
Tuning Voltage	0.5-4.5	Vdc
Tuning Sensitivity (avg.)	38	MHz/V
Power Output	0±3	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	50	pF
Pushing	<3	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<5	MHz
Operating Temperature Range	-40 to 85	°C
Package Style	MINI-14S	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	17	mA

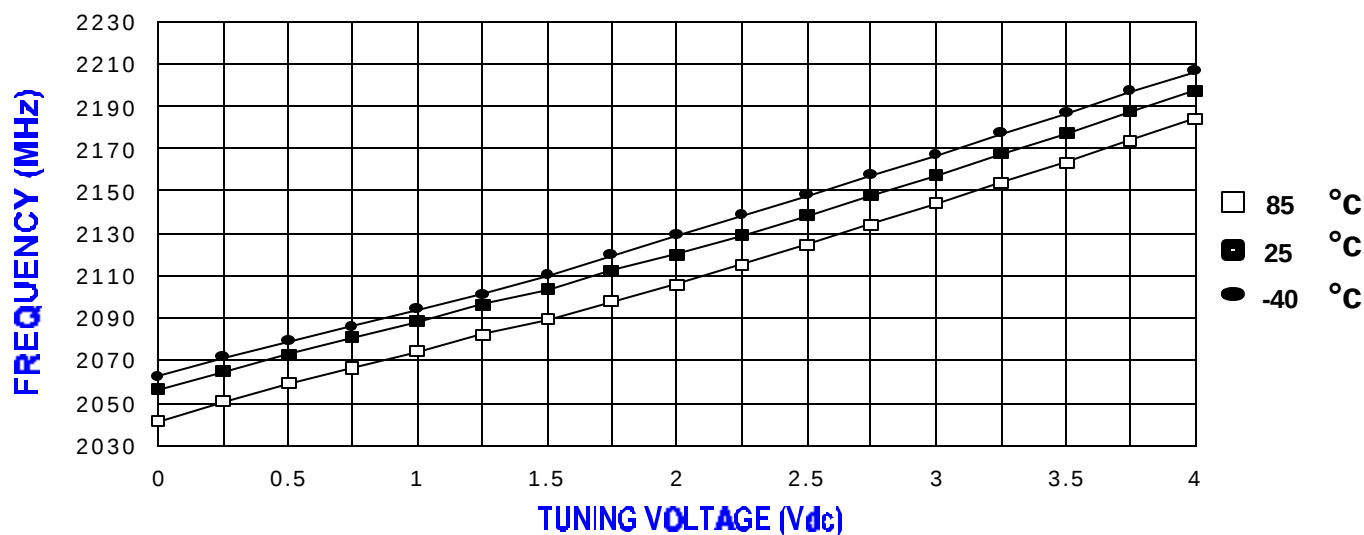
All specifications are typical unless otherwise noted and subject to change without notice.

APPLICATION NOTES

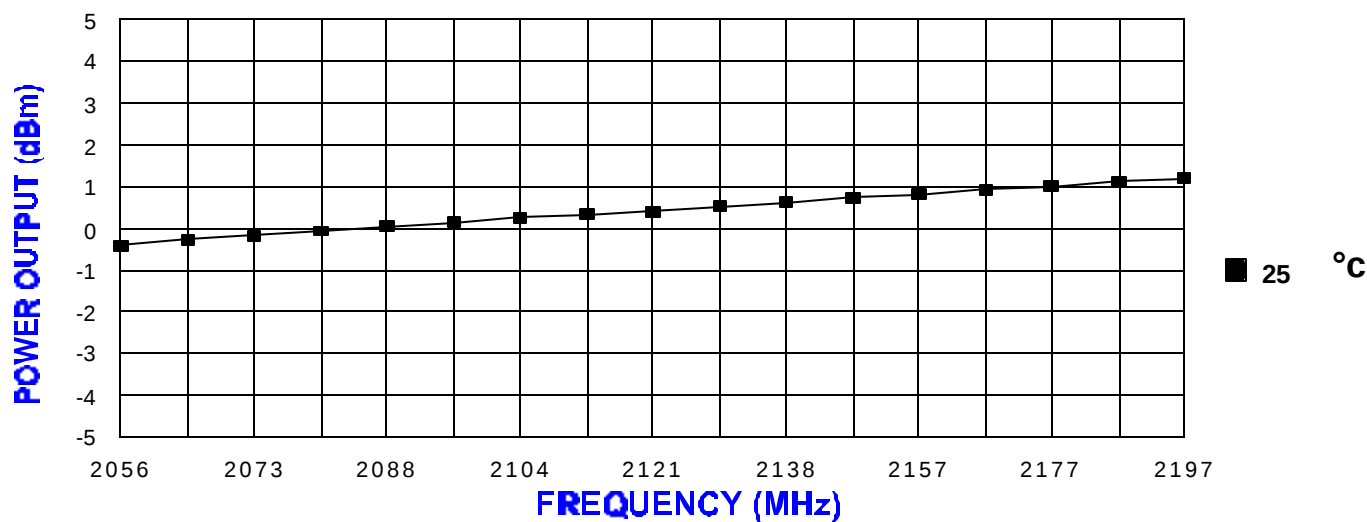
- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

NOTES:

TUNING CURVE, typ.

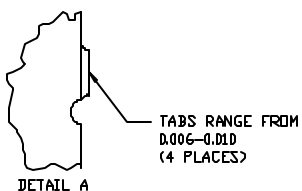
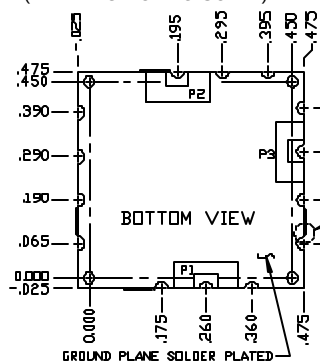


POWER CURVE, typ.



PHYSICAL DIMENSIONS

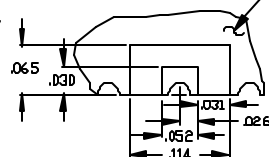
MINI-14S
415-0062 REV. B
(DRAWING NOT TO SCALE)



TYPICAL OF ALL PADS

SEE DETAIL 'A'

✓—SEE NOTE 3



NOTES:

1. THE INSIDE RADIUS OF ALL 14 HALF HOLES
A. THE PERIMETER OF THE BOARD ARE
SOLDER PLATED TO PROVIDE A SURFACE
FOR THE ATTACHMENT OF THE VCD TO A
MOTHERBOARD, IN 11 LOCATIONS, WITH 3
PADS BEING USED FOR ELECTROMECHANICAL
INTERFACE. 14 SOLDER LOCATIONS REQUIRED.
 2. THE SURFACE OF THE SHIELD IS TIN PLATED
AND SHOULD BE SOLDERED TO.
 3. THE SHIELDS BASE METAL IS BRASS.
TO A 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-PF OUT

TOLERANCES
XXX= ± .010

P1=VT
P2=RF OUT
P3=VCE

