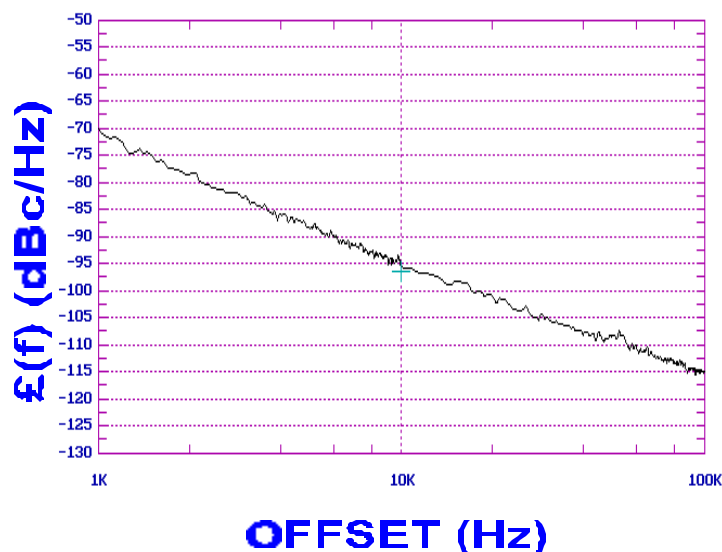


PHASE NOISE (1 Hz BW, typical)



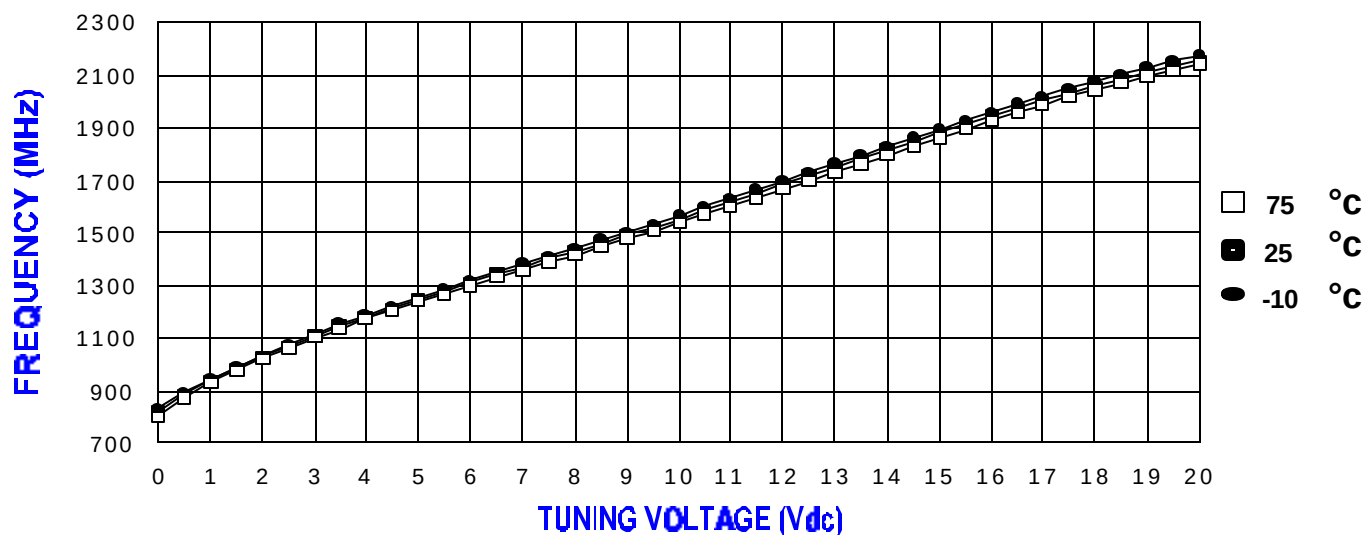
FEATURES
<ul style="list-style-type: none"> Frequency Range: 1250 - 2050 MHz Tuning Voltage: 1-20 Vdc MINI-14S-L - Style Package
APPLICATIONS
<ul style="list-style-type: none"> Satellite Communications Test Instrumentation CATV Headend Equipment

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	1250 - 2050	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-95	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Tuning Voltage	1-20	Vdc
Tuning Sensitivity (avg.)	62	MHz/V
Power Output	7±2.5	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	100	pF
Pushing	<3	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<15	MHz
Operating Temperature Range	-10 to 75	°C
Package Style	MINI-14S-L	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	18	mA

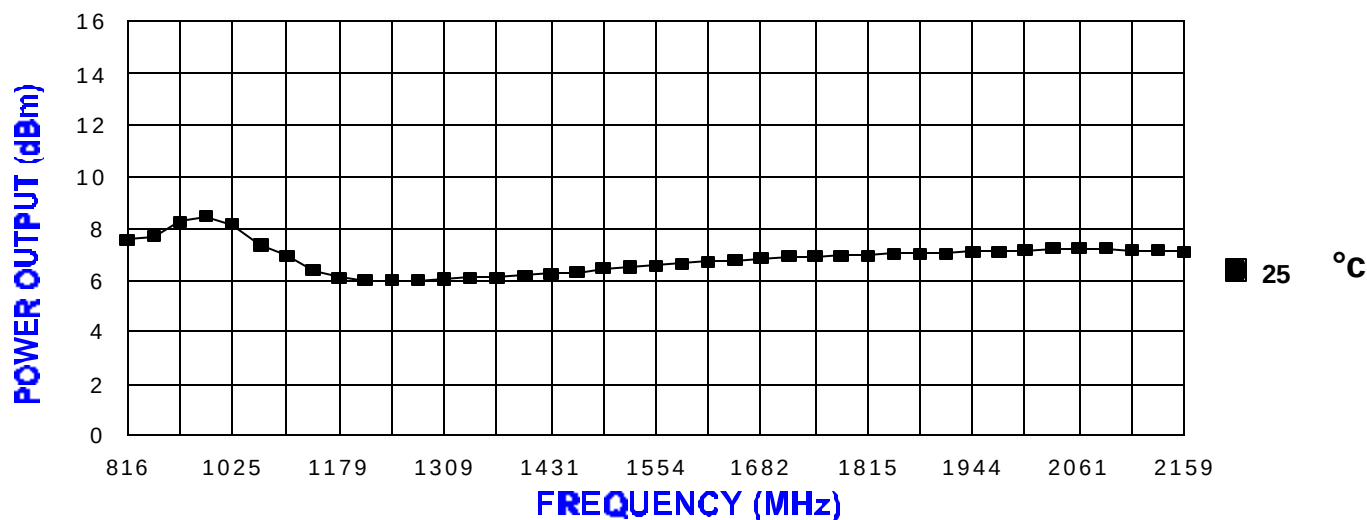
All specifications are typical unless otherwise noted and subject to change without notice.

APPLICATION NOTES
<ul style="list-style-type: none"> 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.

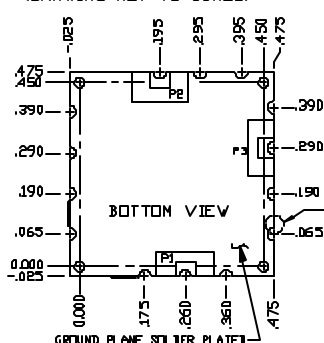
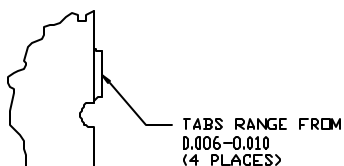


POWER CURVE, typ.

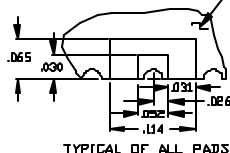


PHYSICAL DIMENSIONS

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



SEE DETAIL 'A'
TYPICAL OF ALL PADS



NOTES:

1. THE INSIDE RADIUS OF ALL 14 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 14 LOCATIONS, WITH 3 PADS BEING USED FOR ELECTROMECHANICAL 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

P1=VT
P2=RF OUT
P3=Vcc

