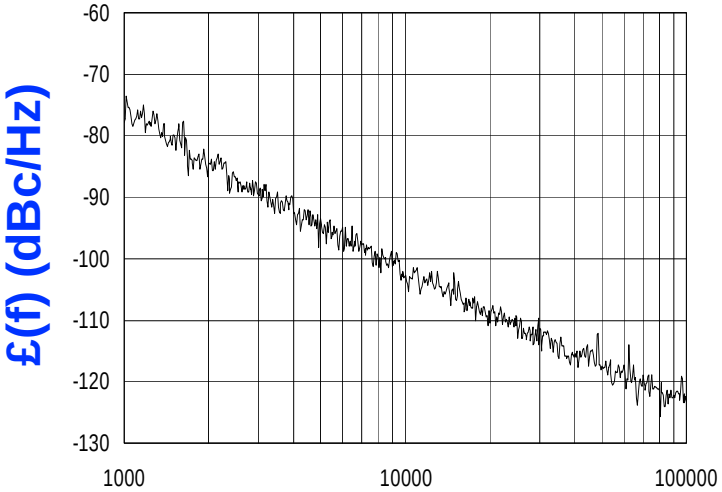
Z-Communications, Inc.
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V602ME33

VOLTAGE CONTROLLED OSCILLATOR

Rev A1

PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 1375 - 1700 MHz
- Tuning Voltage: 0.5-4.5 Vdc
- MINI-14S-L - Style Package

APPLICATIONS

- Personal Communication Systems
- Earthstations
- Portable Radios

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	1375 - 1700	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-100	dBc/Hz
Harmonic Suppression (2nd, typ.)	-13	dBc
Tuning Voltage	0.5-4.5	Vdc
Tuning Sensitivity (avg.)	110	MHz/V
Power Output	0±2.5	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	50	pF
Pushing	<2	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<6	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.)	14	mA

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

APPLICATION NOTES

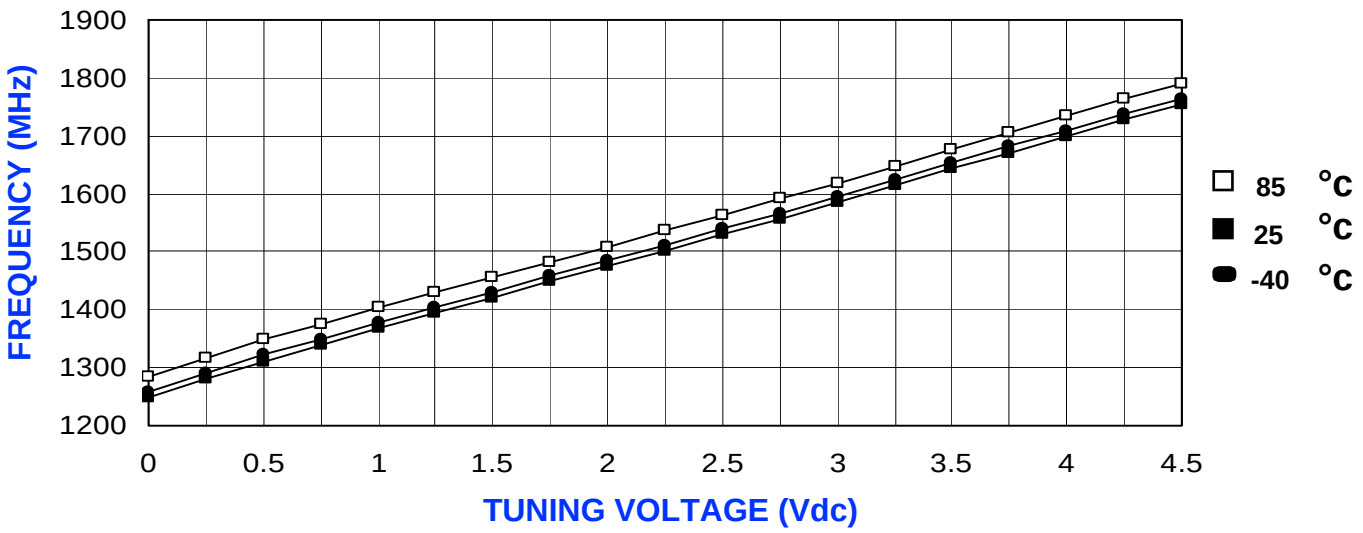
- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

NOTES:

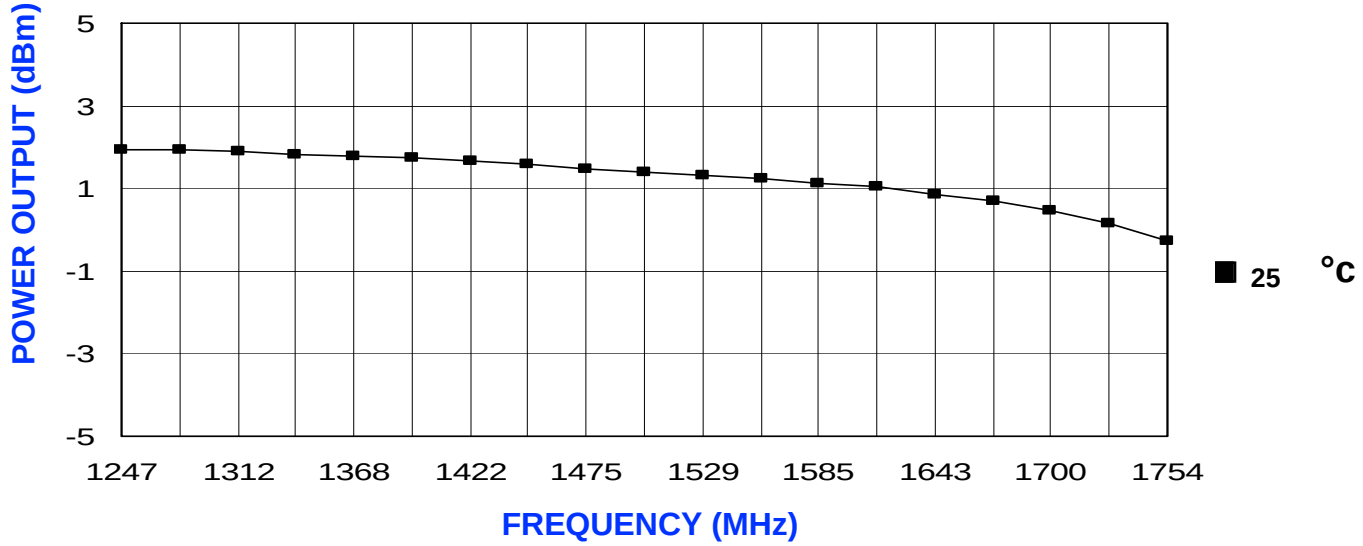
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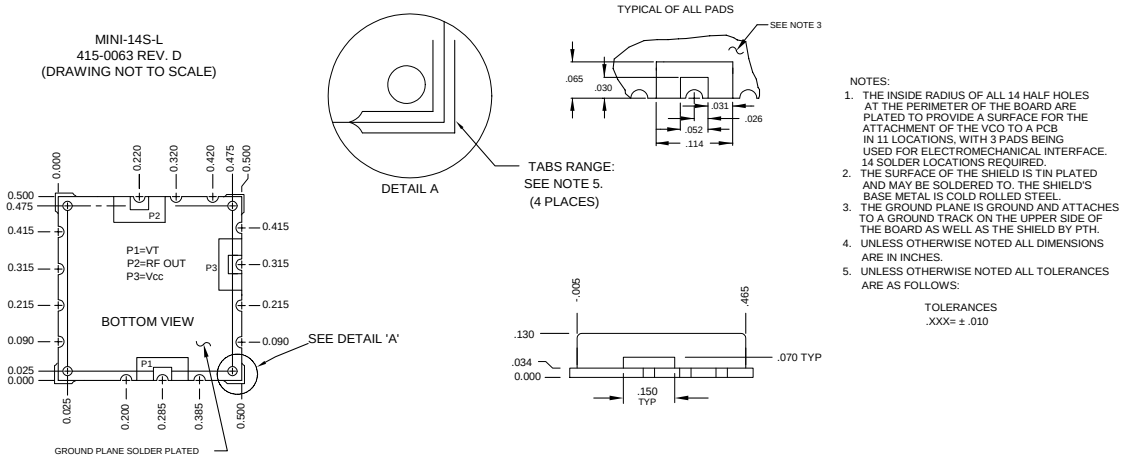
TUNING CURVE, typ.



POWER CURVE, typ.



PHYSICAL DIMENSIONS



NOTES:
1. THE INSIDE RADIUS OF ALL 14 HALF HOLES AT THE PERIMETER OF THE BOARD ARE PLATED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE VCO TO A PCB 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 MAY BE SOLDERED TO. THE SHIELD'S BASE METAL IS COLD ROLLED STEEL.
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