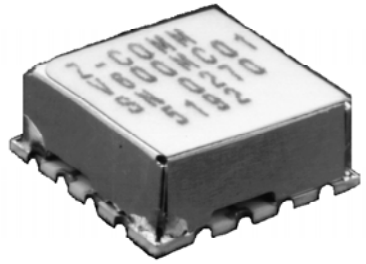
Z-Communications, Inc.
9939 Via Pasar • San Diego, CA 92126
TEL (858) 621-2700 FAX (858) 621-2722

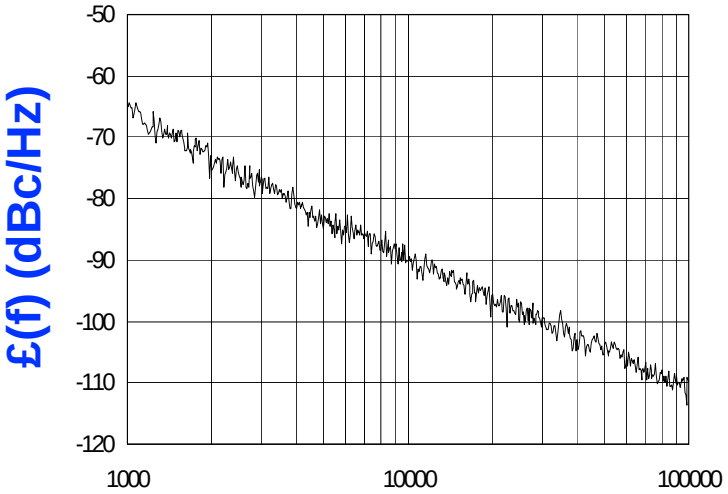
V940ME19

VOLTAGE CONTROLLED OSCILLATOR

Rev A1



PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 4750 - 5100 MHz
- Tuning Voltage: 0.5-14 Vdc
- MINI-14S-L - Style Package

APPLICATIONS

- Microwave Radios
- Satellite Communications
- Direct Broadcast

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	4750 - 5100	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-88	dBc/Hz
Harmonic Suppression (2nd, typ.)	-20	dBc
Tuning Voltage	0.5-14	Vdc
Tuning Sensitivity (avg.)	36	MHz/V
Power Output	6±3	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	25	pF
Pushing	<4	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<27	MHz
Operating Temperature Range	-20 to 70	°C
Package Style	MINI-14S-L	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	10	Vdc
Supply Current (Icc, typ.)	26	mA

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

APPLICATION NOTES

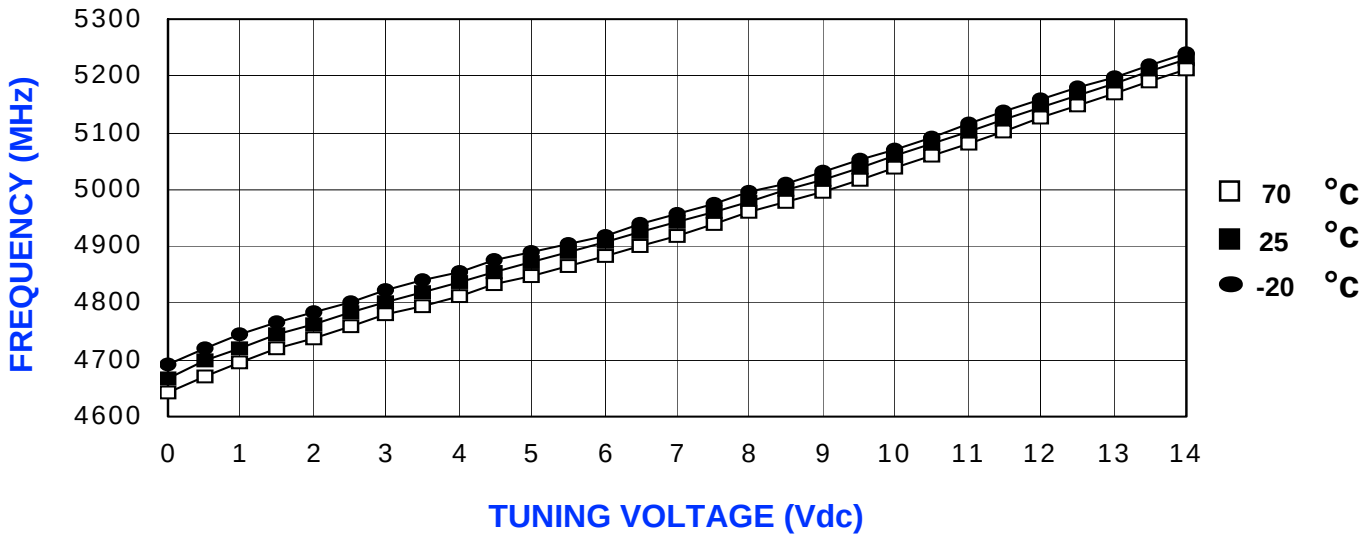
- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

NOTES:

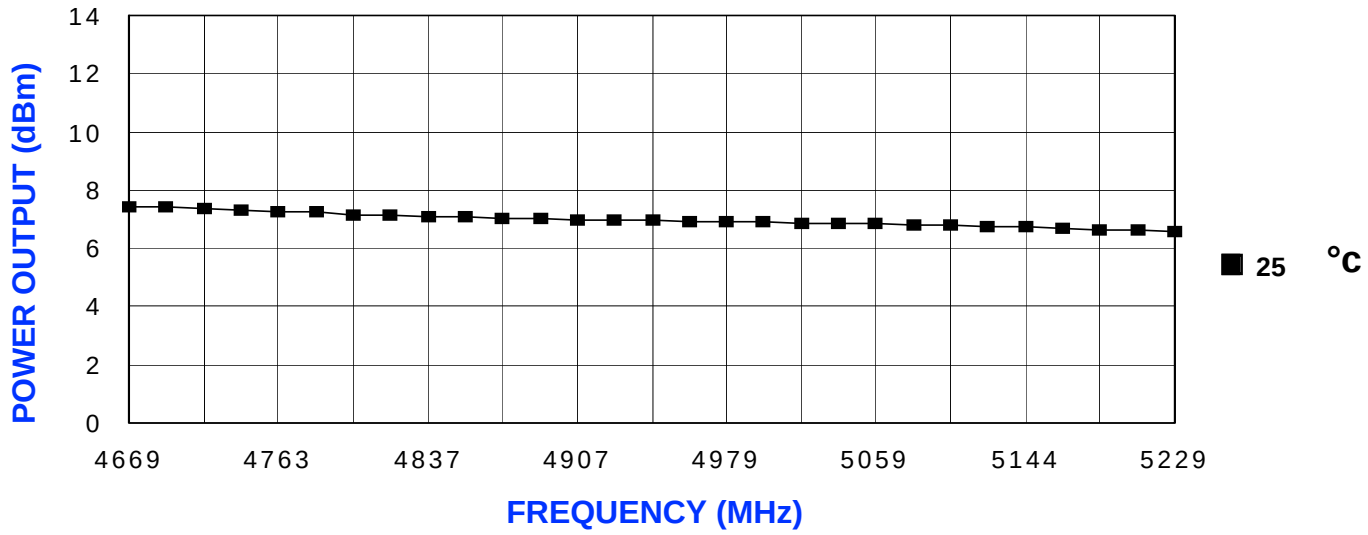
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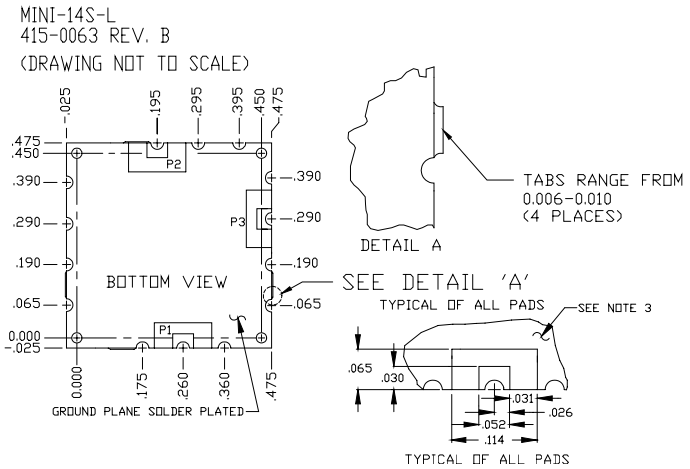
TUNING CURVE, typ.



POWER CURVE, typ.



PHYSICAL DIMENSIONS



NOTES:
1. THE INSIDE RADIUS OF ALL 14 HALF HOLES AT THE PERIMETER OF THE BOARD ARE SOLDER PLATED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE VCO 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 MAY BE SOLDERED TO. THE SHIELDS 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

