



查询CRO4000B供应商

Z-Communications, Inc.

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

捷多邦, 专业PCB打样工厂, 24小时加急出货

CRO4000B

VOLTAGE CONTROLLED OSCILLATOR
Rev A1



FEATURES

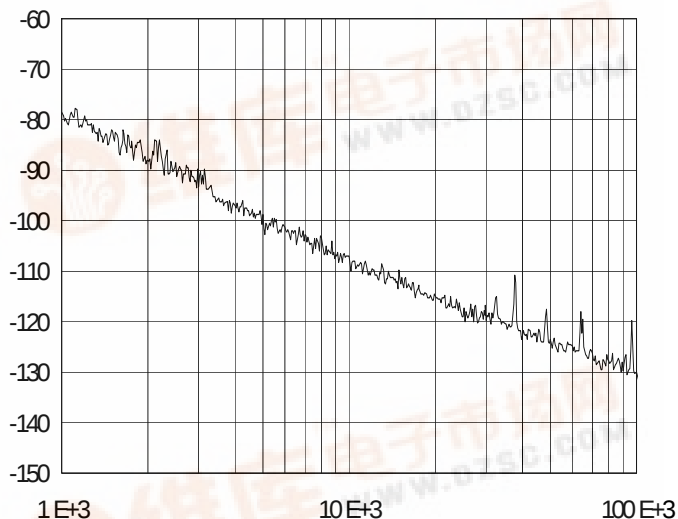
- Frequency Range: 3980 - 4020 MHz
- Tuning Voltage: 0.5 - 4.5 Vdc
- MINI-16 - Style Package

APPLICATIONS

- Microwave Radios
- Satellite Communications
- Direct Broadcast

$L(f)$ (dBc/Hz)

PHASE NOISE (1 Hz BW, typical)



OFFSET (Hz)

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Oscillation Frequency Range	3980 - 4020	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-106	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Tuning Voltage	0.5 - 4.5	Vdc
Tuning Sensitivity (avg.)	13	MHz/V
Power Output	4±3	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	50	pF
Pushing	<0.5	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<1	MHz
Operating Temperature Range	-30 to 85	$^{\circ}\text{C}$
Package Style	MINI-16	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	4.75	Vdc
Supply Current (Icc, typ.)	17	mA

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

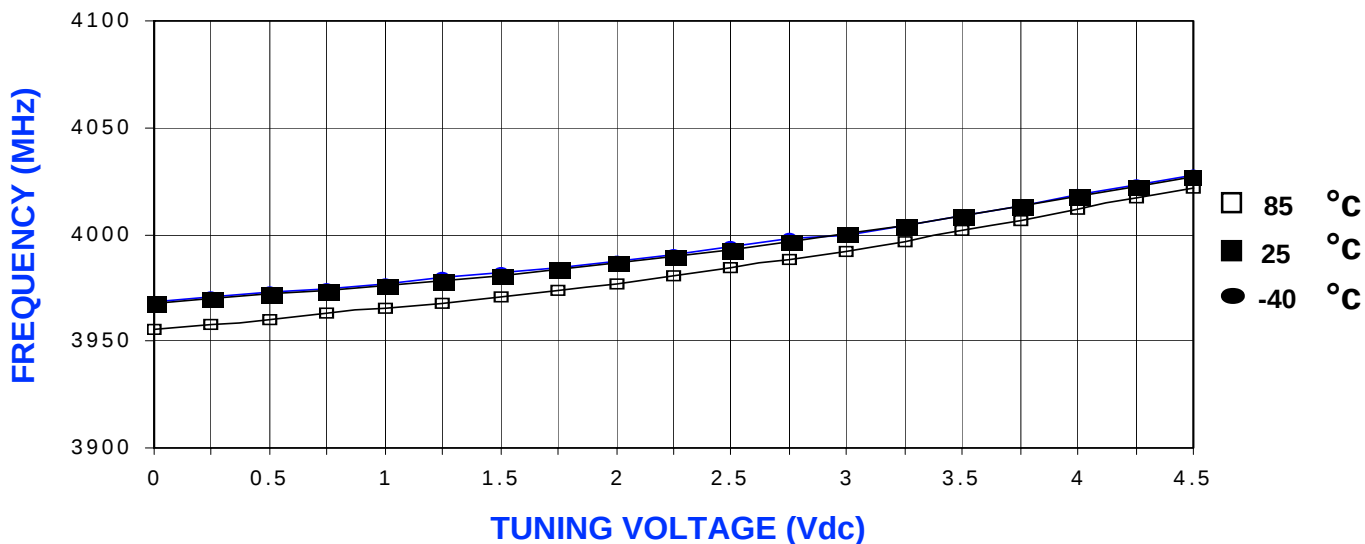
APPLICATION NOTES

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

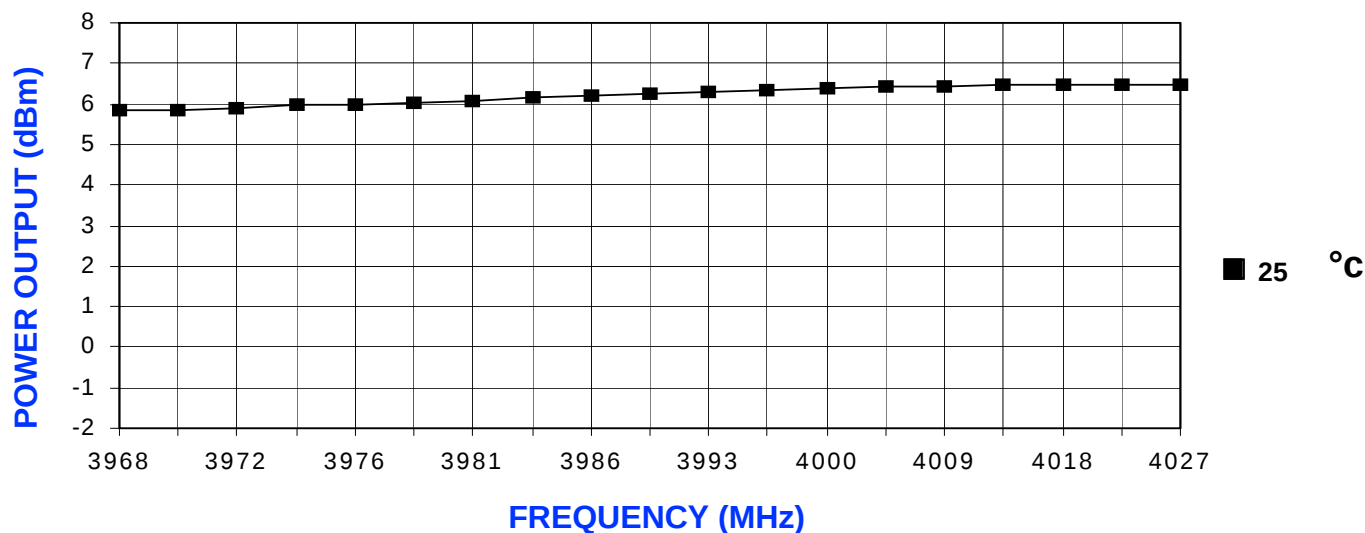
NOTES:



TUNING CURVE, typ.

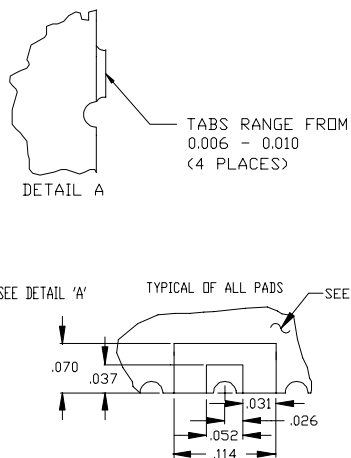
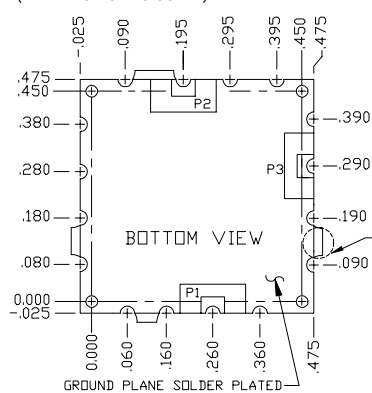


POWER CURVE, typ.

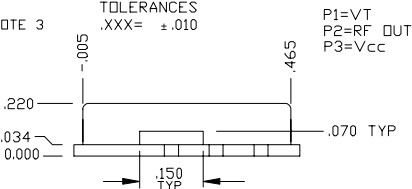


PHYSICAL DIMENSIONS

MINI-16
415-0061 REV. B
(DRAWING NOT TO SCALE)



- NOTES:
1. THE INSIDE RADIUS OF ALL 16 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 13 LOCATIONS, WITH 3 PADS BEING USED FOR ELECTROMECHANICAL INTERFACE. 16 SOLDER LOCATIONS REQUIRED.
 2. THE SURFACE OF THE SHIELD IS TIN PLATED AND MAY BE SOLDERED TO.
 3. 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