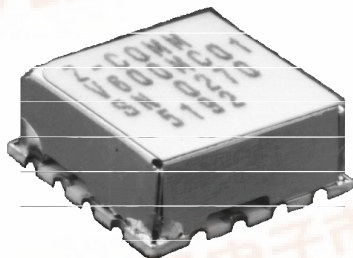


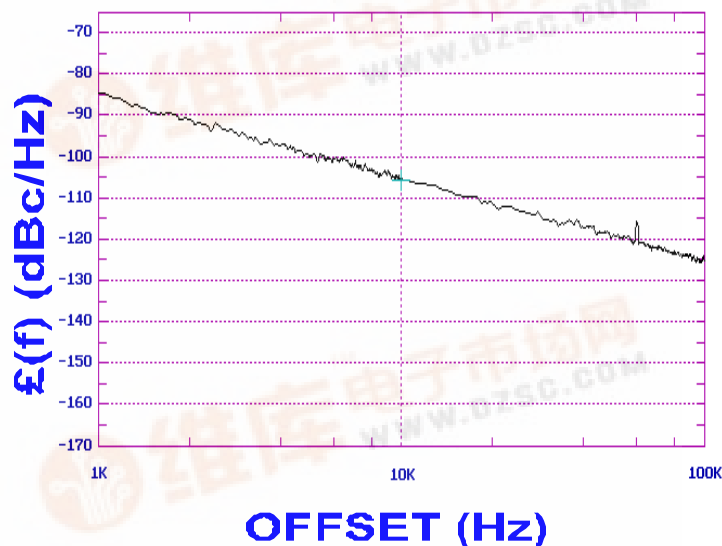
V175ME10

VOLTAGE CONTROLLED OSCILLATOR

Rev A1



PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 150 - 200 MHz
- Tuning Voltage: 0.5-4.5 Vdc
- MINI-16 - Style Package

APPLICATIONS

- RF Modems
- Earthstations
- Test Instrumentation

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Oscillation Frequency Range	150 - 200	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-104	dBc/Hz
Harmonic Suppression (2nd, typ.)	-10	dBc
Tuning Voltage	0.5-4.5	Vdc
Tuning Sensitivity (avg.)	17	MHz/V
Power Output	2.5±3.5	dBm
Load Impedance	50	?
Input Capacitance (max.)	550	pF
Pushing	<2	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<2	MHz
Operating Temperature Range	-40 to 85	°C
Package Style	MINI-16	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	9	mA

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

APPLICATION NOTES

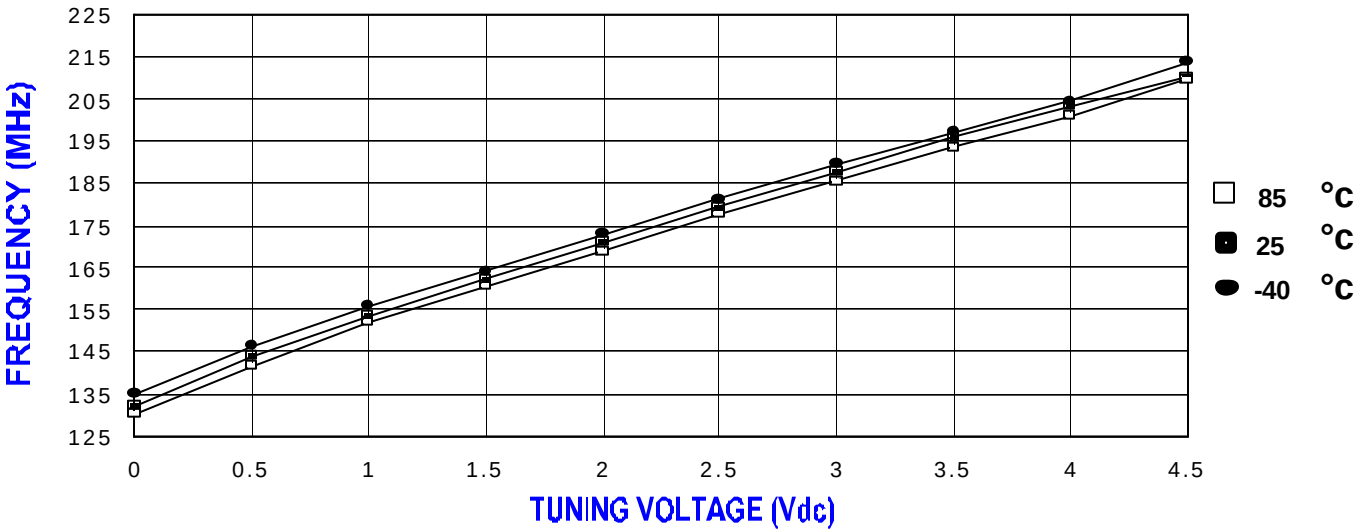
- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

NOTES:

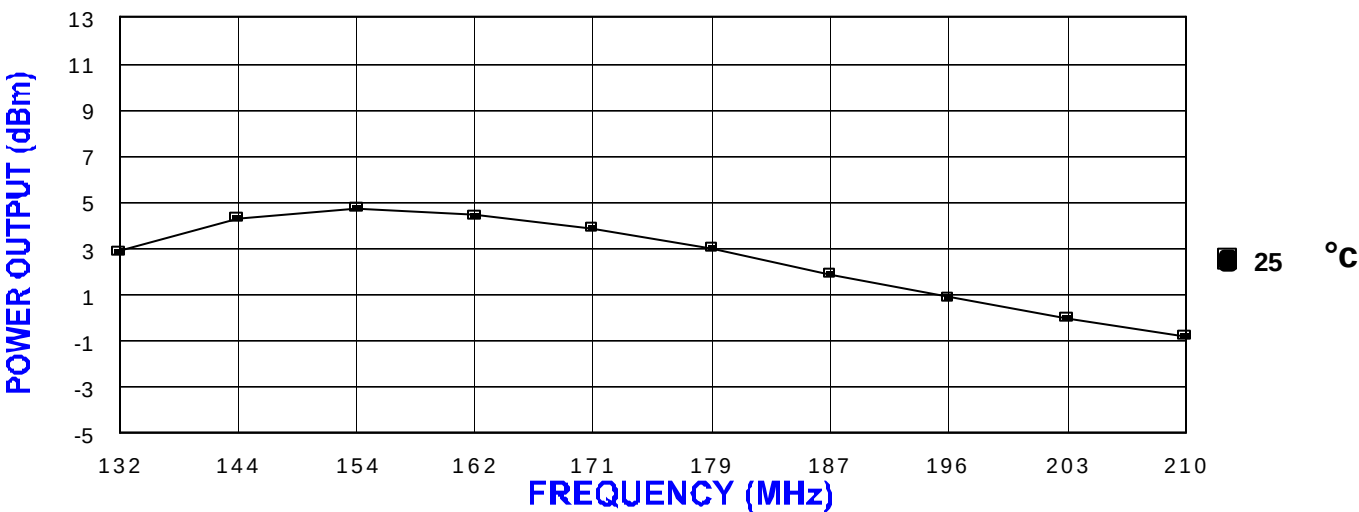

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LOW COST - HIGH PERFORMANCE
VOLTAGE CONTROLLED OSCILLATOR

TUNING CURVE, typ.

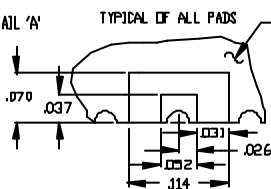
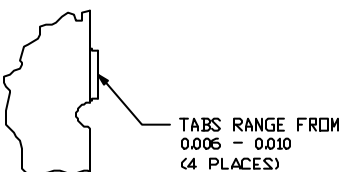
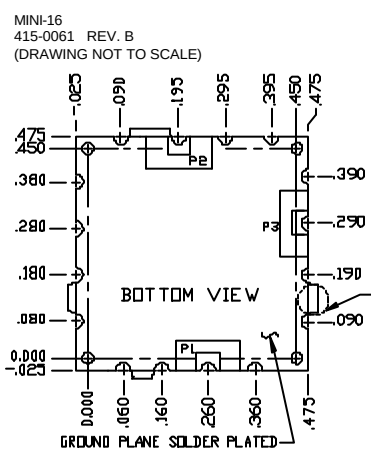


POWER CURVE, typ.



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. THE SURFACE OF THE SHIELD IS TIN PLATED AND MAY BE SOLDERED TO.
 2. THE SHIELD'S BASE METAL IS BRASS.
 3. THE GROUND PLANE IS BRASS 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:

