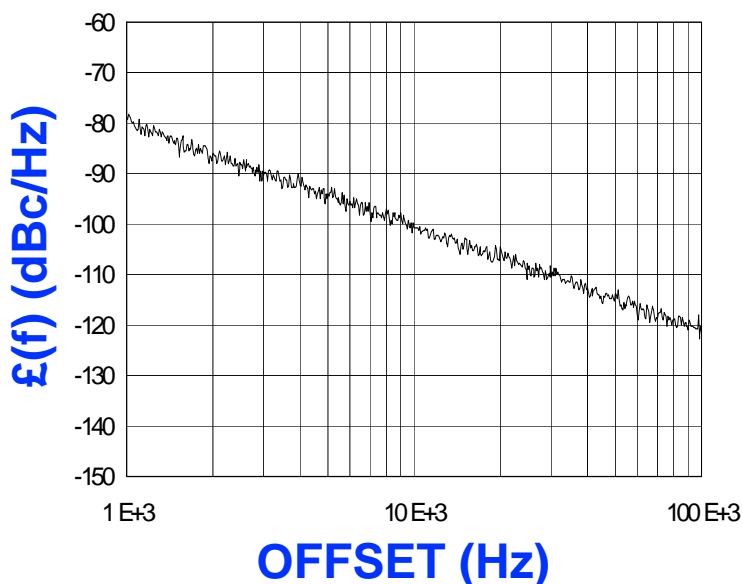




**PHASE NOISE (1 Hz BW, typical)**



**FEATURES**

- Frequency Range: 169 - 181 MHz
- Tuning Voltage: 0.4-2.2 Vdc
- USSP - Style Package

**APPLICATIONS**

- Test Instrumentation
- Digital Radios / RF Modems
- Earthstations / CATV

**PERFORMANCE SPECIFICATIONS**

	VALUE	UNITS
Oscillation Frequency Range	169 - 181	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-100	dBc/Hz
Harmonic Suppression (2nd, typ.)	-10	dBc
Tuning Voltage	0.4-2.2	Vdc
Tuning Sensitivity (avg.)	14	MHz/V
Power Output	0.5±2.5	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	500	pF
Pushing	<0.1	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<1	MHz
Operating Temperature Range	0 to 70	°C
Package Style	USSP	

**POWER SUPPLY REQUIREMENTS**

Supply Voltage (Vcc, nom.)	3	Vdc
Supply Current (Icc, typ.)	12	mA

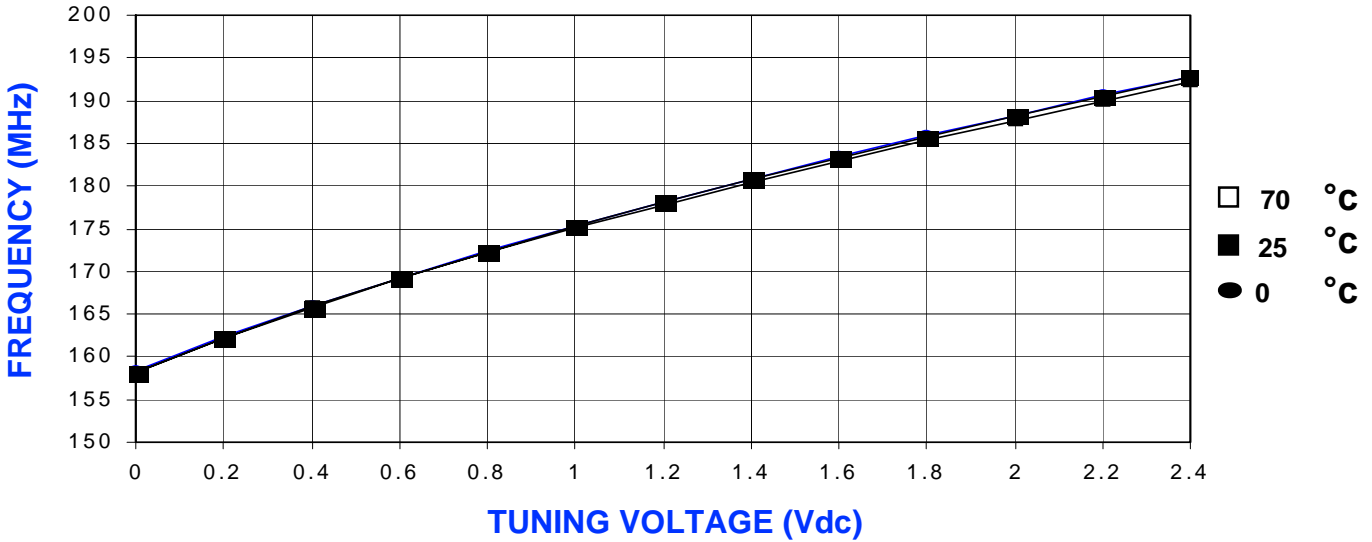
All specifications are typical unless otherwise noted and subject to change without notice.

**APPLICATION NOTES**

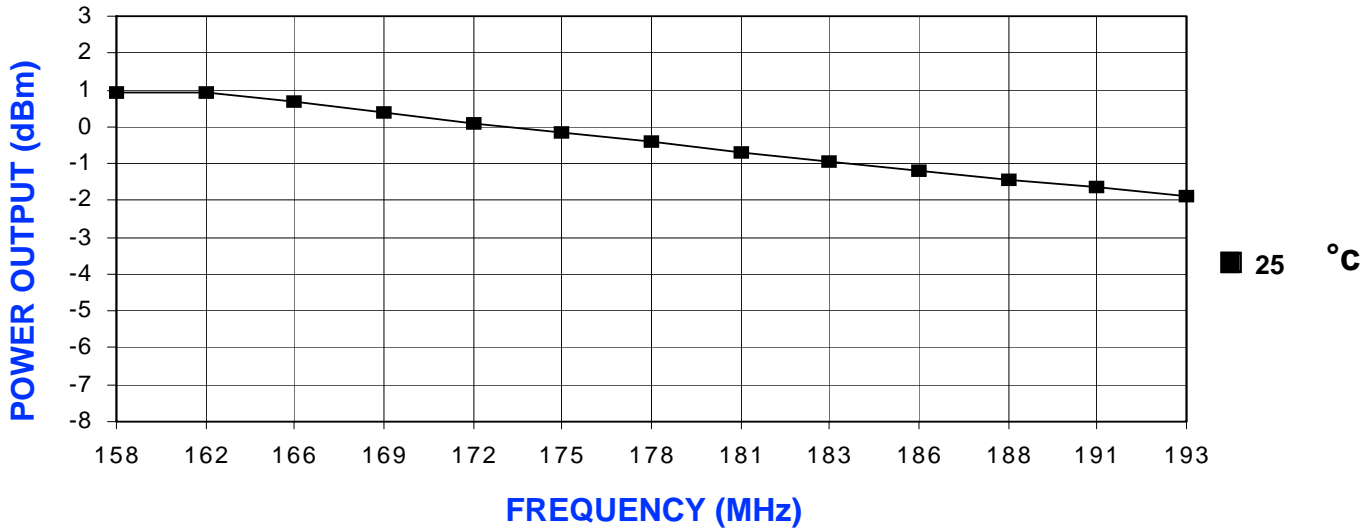
- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

**NOTES:**

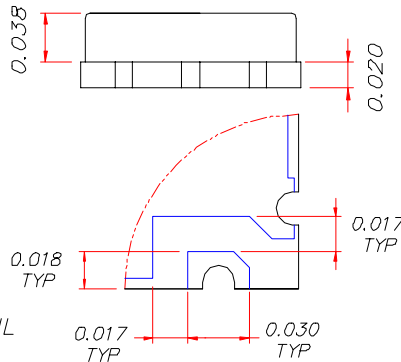
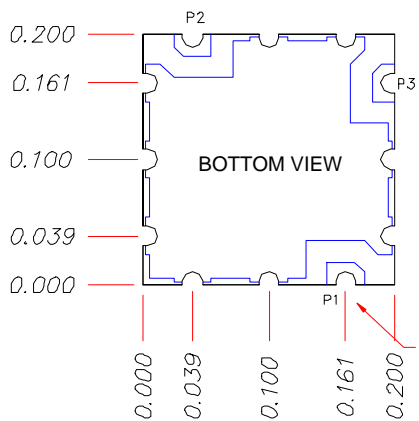
**TUNING CURVE, typ.**



**POWER CURVE, typ.**



**PHYSICAL DIMENSIONS**



**NOTES**

1. THE INSIDE RADIUS OF ALL 12 HALF HOLES AT THE PERIMETER OF THE BOARD ARE METALIZED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE VCO TO THE MOTHERBOARD
2. THE SHIELD MATERIAL IS NICKEL SILVER AND MAY BE SOLDERED ALSO.
3. THE GROUND PLANE IS GROUND AND ATTACHES TO THE GROUND TRACK ON THE UPPER SIDE OF THE BOARD AS WELL AS THE SHIELD.

TOLERANCES UNLESS OTHERWISE NOTED  
.XXX ± .010

P1= VT  
P2= RF OUT  
P3= Vcc