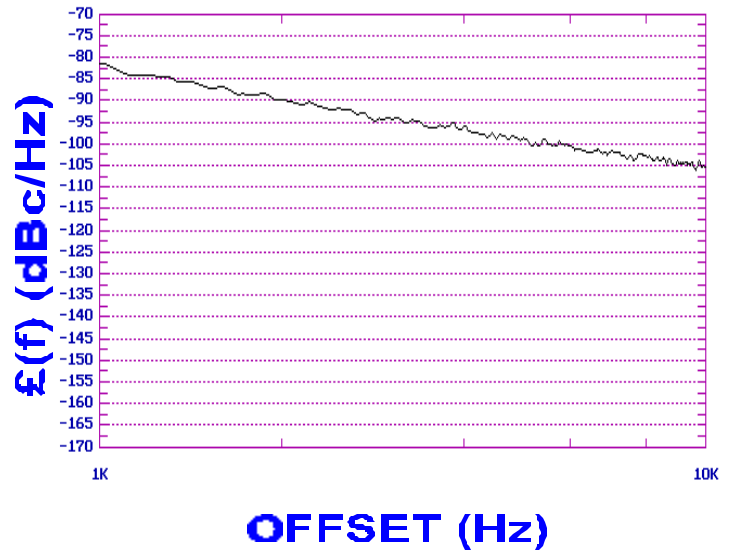




**PHASE NOISE (1 Hz BW, typical)**



**FEATURES**

- Frequency Range: 1683 - 1743 MHz
- Tuning Voltage: 1-4 Vdc
- 375 - Style Package

**APPLICATIONS**

- Earthstations
- Satellite Modems
- PCS Basestations

**PERFORMANCE SPECIFICATIONS**

**VALUE**

**UNITS**

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	1683 - 1743	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-105	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Tuning Voltage	1-4	Vdc
Tuning Sensitivity (avg.)	55	MHz/V
Power Output	3±3	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	50	pF
Pushing	<4	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<4	MHz
Operating Temperature Range	-40 to 85	°C
Package Style	375	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	20	mA

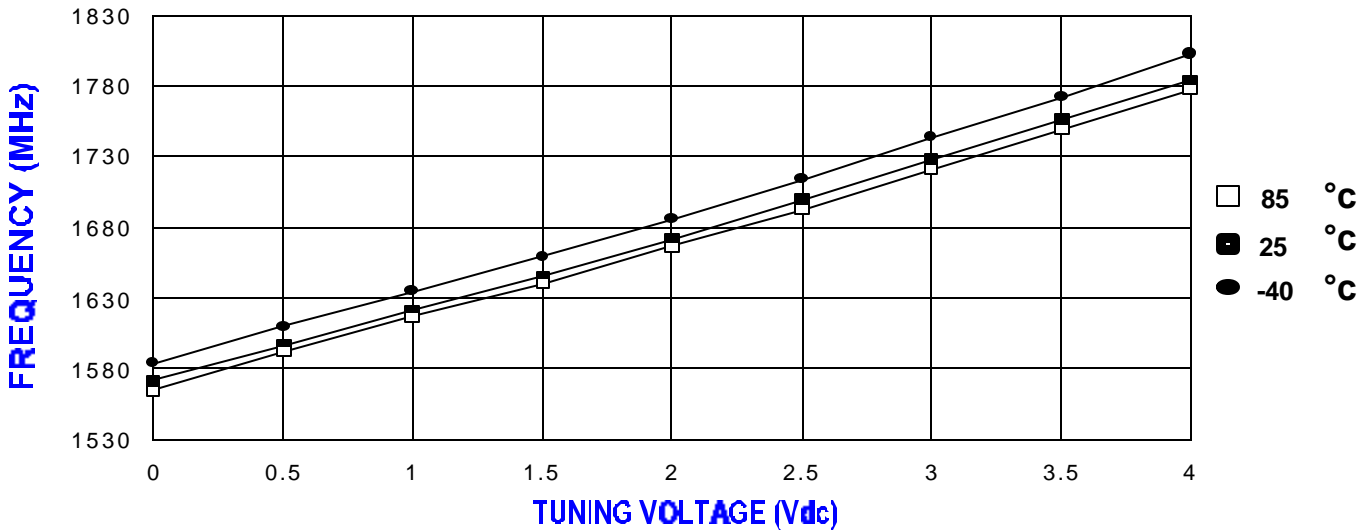
All specifications are typical unless otherwise noted and subject to change without notice.

**APPLICATION NOTES**

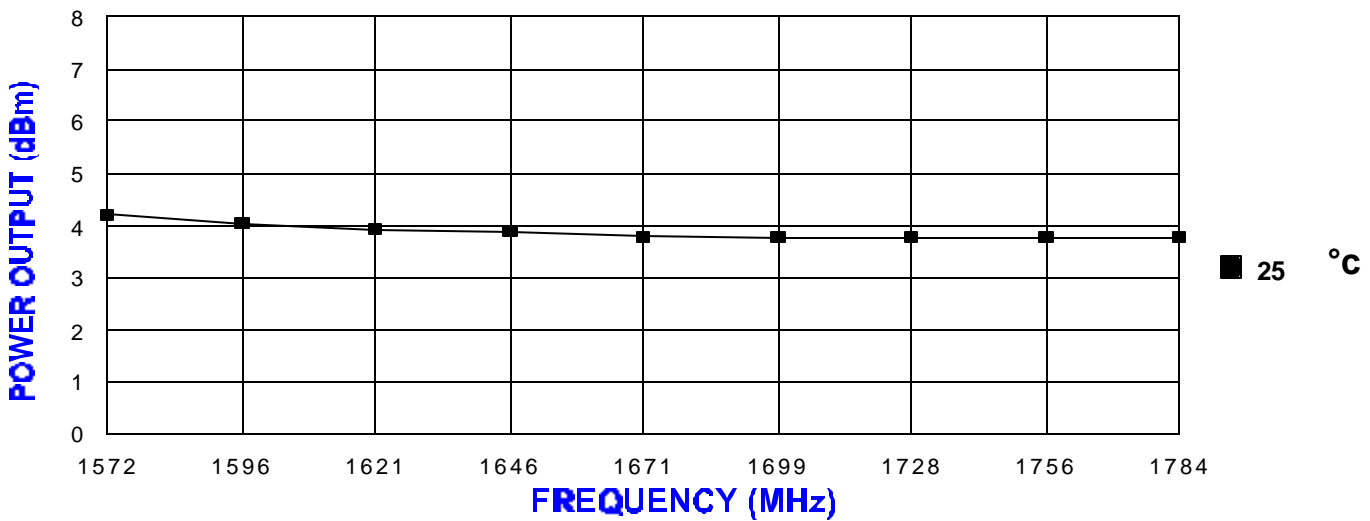
- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

**NOTES:**

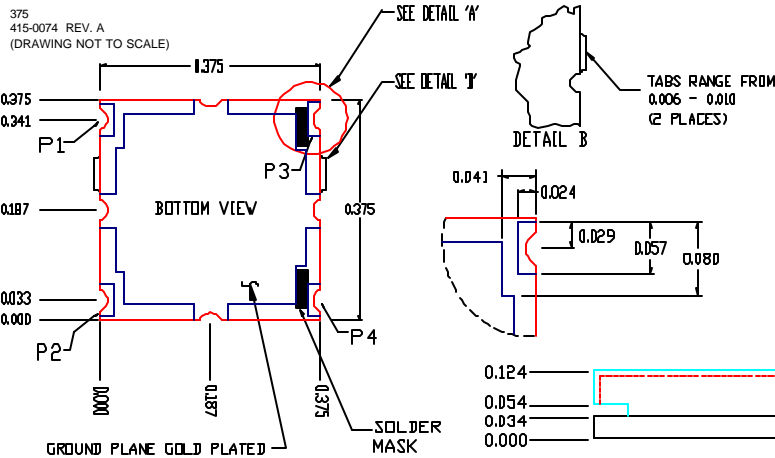
**TUNING CURVE, typ.**



**POWER CURVE, typ.**



**PHYSICAL DIMENSIONS**



**NOTES:**

1. THE INSIDE RADIUS OF ALL 8 HALF HOLES AT THE PERIMETER OF THE BOARD ARE GOLD PLATED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE VCO TO A MOTHERBOARD, IN 8 LOCATIONS, WITH 4 PADS BEING USED FOR ELECTROMECHANICAL INTERFACE, 8 SOLDER LOCATIONS REQUIRED.
2. THE SURFACE OF THE SHIELD IS TIN PLATED AND MAY BE SOLDERED TO 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

TERMINAL PADS	
P1	= Vmod (Opt)
P2	= RF Out
P3	= V Tune
P4	= Vcc