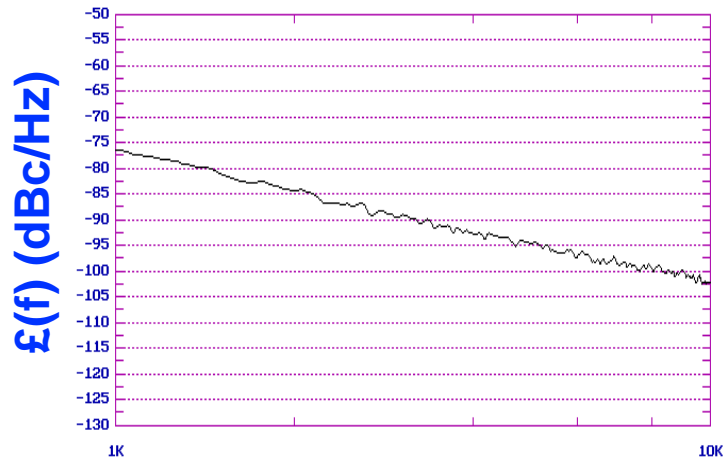


**PHASE NOISE (1 Hz BW, typical)**



FEATURES
<ul style="list-style-type: none"> <li>• Frequency Range: 1675 - 1925 MHz</li> <li>• Tuning Voltage: 3-11 Vdc</li> <li>• S - Style Package</li> </ul>
APPLICATIONS
<ul style="list-style-type: none"> <li>• Earthstations</li> <li>• Test Instrumentation</li> <li>• Frequency Hopping Radios</li> </ul>

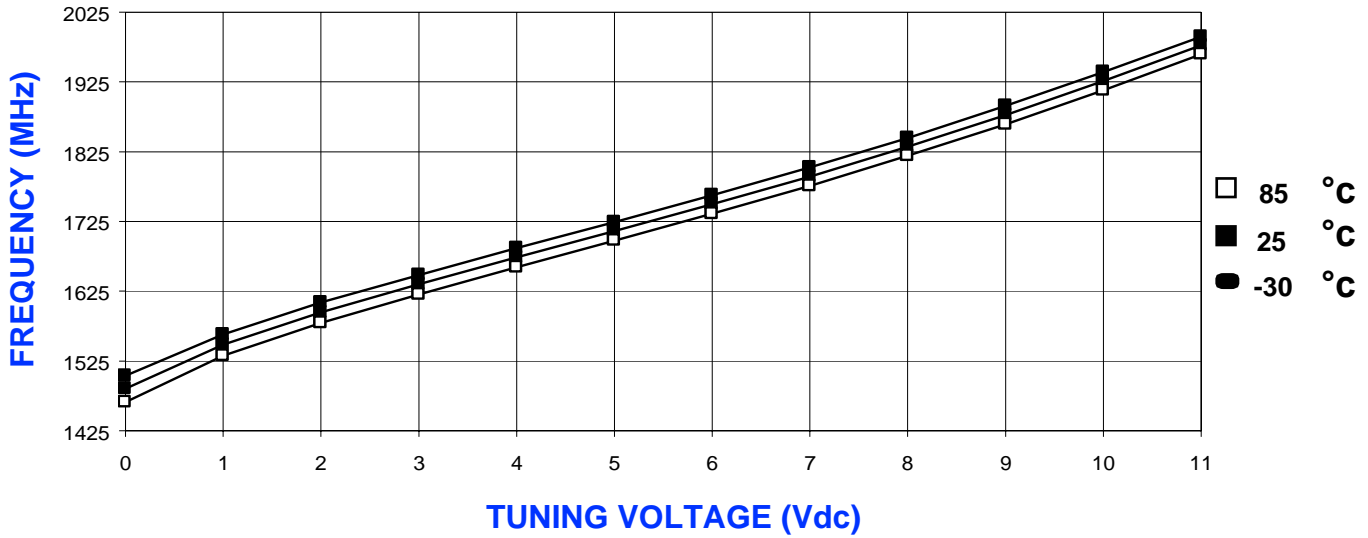
**OFFSET (Hz)**

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	1675 - 1925	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-101	dBc/Hz
Harmonic Suppression (2nd, typ.)	-9	dBc
Tuning Voltage	3-11	Vdc
Tuning Sensitivity (avg.)	41	MHz/V
Power Output	11.25±2.75	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	50	pF
Pushing	<2	MHz/V
Pulling ( 14dB Return Loss, Any Phase)	<19	MHz
Operating Temperature Range	-30 to 85	°C
Package Style	S	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	12	Vdc
Supply Current (Icc, typ.)	24	mA

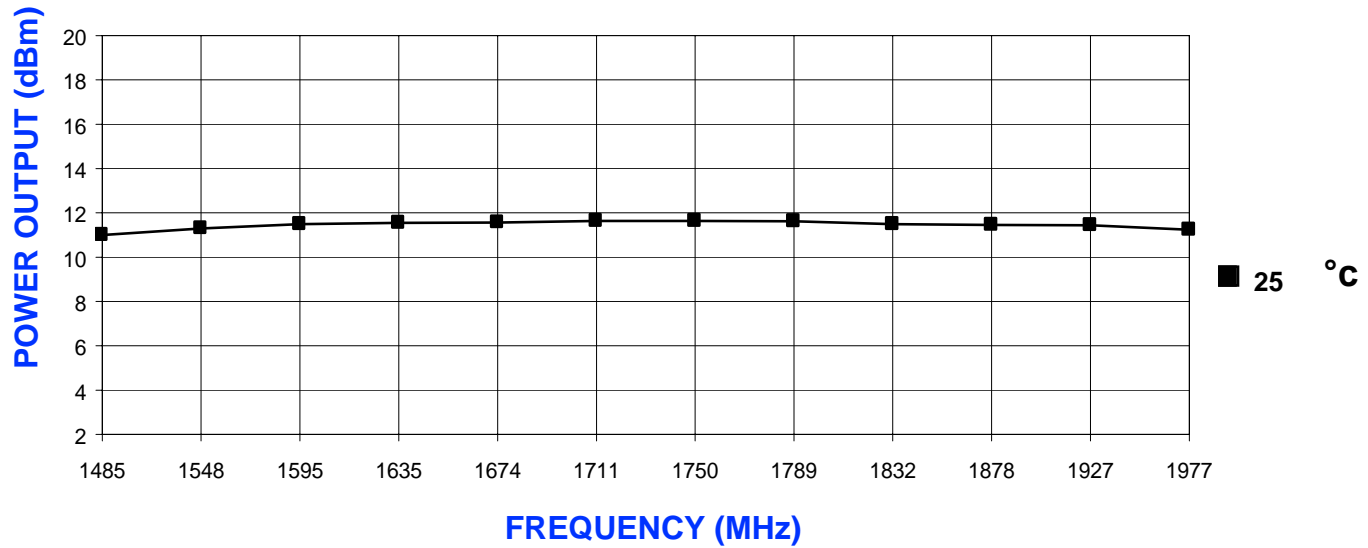
All specifications are typical unless otherwise noted and subject to change without notice.

APPLICATION NOTES
<ul style="list-style-type: none"> <li>• AN-100/1 : Mounting and Grounding of VCOs</li> <li>• AN-102 : Proper Output Loading of VCOs</li> <li>• AN-107 : How to Solder Z-COMM VCOs</li> </ul>
<b>NOTES:</b>

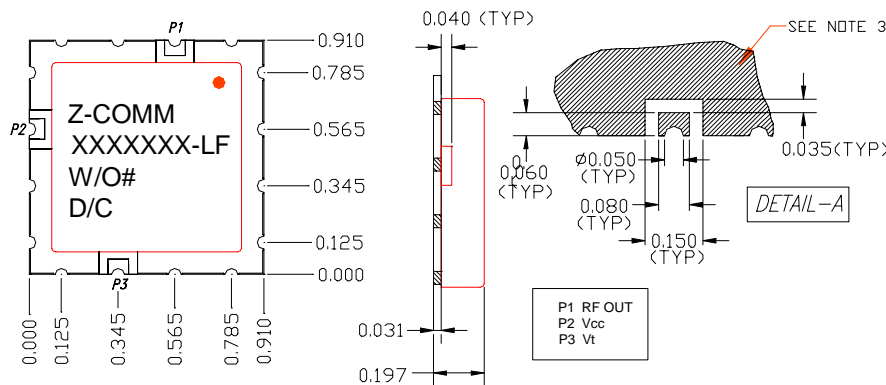
TUNING CURVE, typ.



POWER CURVE, typ.



PHYSICAL DIMENSIONS



- NOTES
1. The inside radius of all 16 half holes at the perimeter of board are plated to provide a surface for the attachment of the VCO Module to the PCB. 13 pads are for ground and 3 pads are for mounting power supplies.
  2. The surface of the shield is tin-plated and may be soldered. The shield's base metal is cold rolled steel.
  3. The ground plane on the bottom side is ground and to a ground track on the top side of the board as well as the shield.
  4. Unless otherwise noted all dimensions are in inches.
  5. Unless otherwise noted all tolerances are as follows:  
.xxx = ± .010