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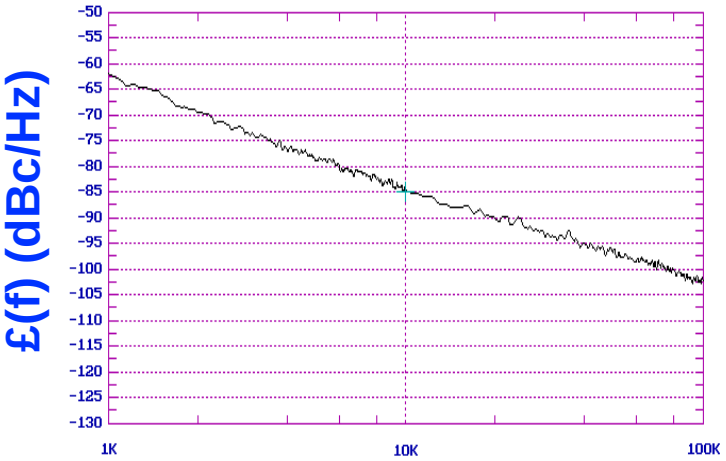
USSP2330

VOLTAGE CONTROLLED OSCILLATOR

Rev A1



PHASE NOISE (1 Hz BW, typical)



FEATURES

- Frequency Range: 2300 - 2360 MHz
- Tuning Voltage: 0.5-2.5 Vdc
- USSP - Style Package

APPLICATIONS

- Personal Communication Systems
- W-CDMA Basestations
- Portable Radios

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	2300 - 2360	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-84	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Tuning Voltage	0.5-2.5	Vdc
Tuning Sensitivity (avg.)	125	MHz/V
Power Output	-1.5±2.5	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	25	pF
Pushing	<35	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<20	MHz
Operating Temperature Range	-40 to 85	°C
Package Style	USSP	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	2.7	Vdc
Supply Current (Icc, typ.)	8	mA

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

APPLICATION NOTES

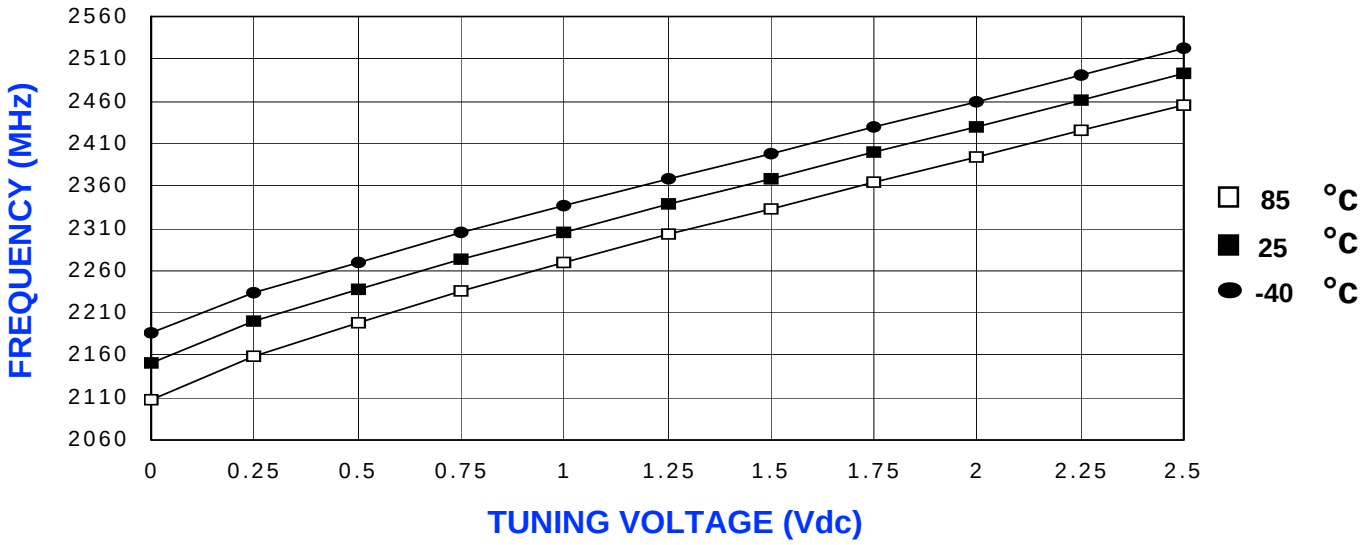
- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

NOTES:

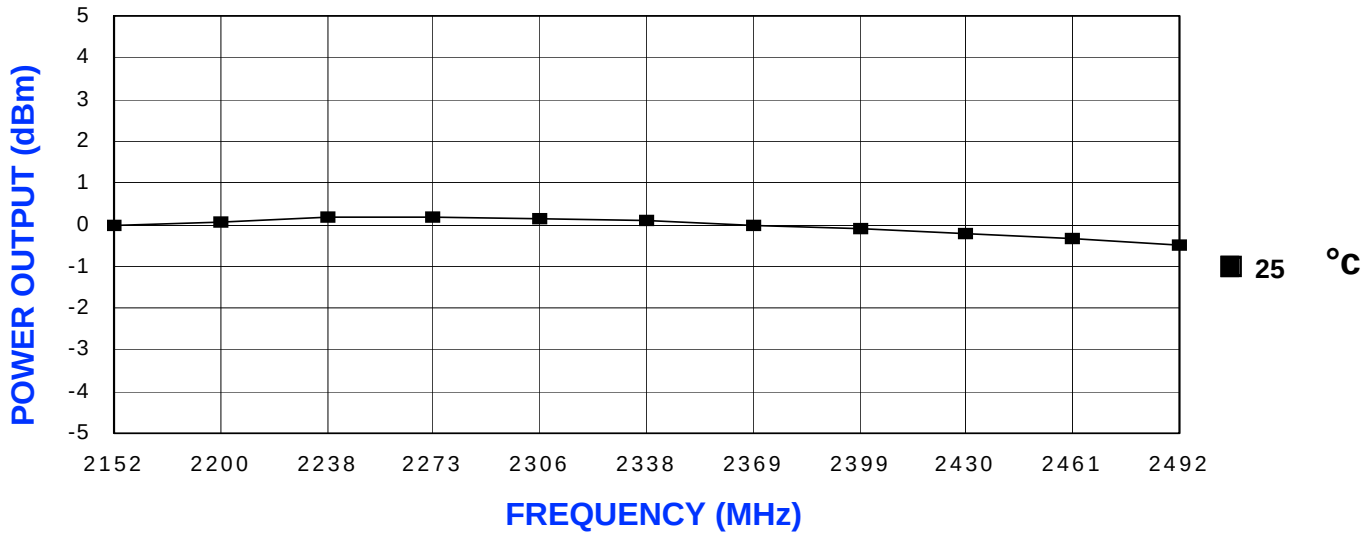
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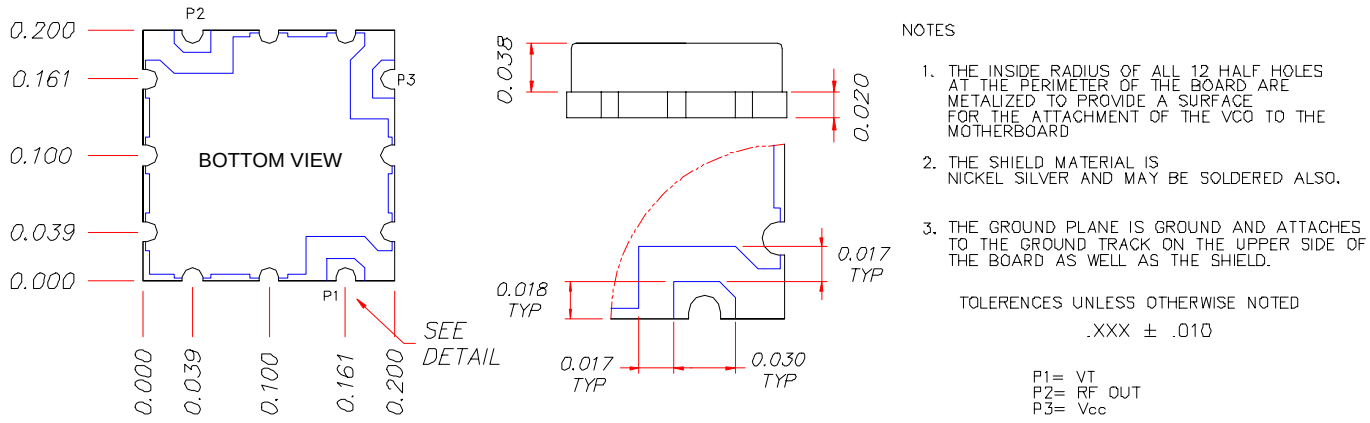
TUNING CURVE, typ.



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.

TOLERENCES UNLESS OTHERWISE NOTED
.XXX ± .010

P1= VT
P2= RF OUT
P3= Vcc