

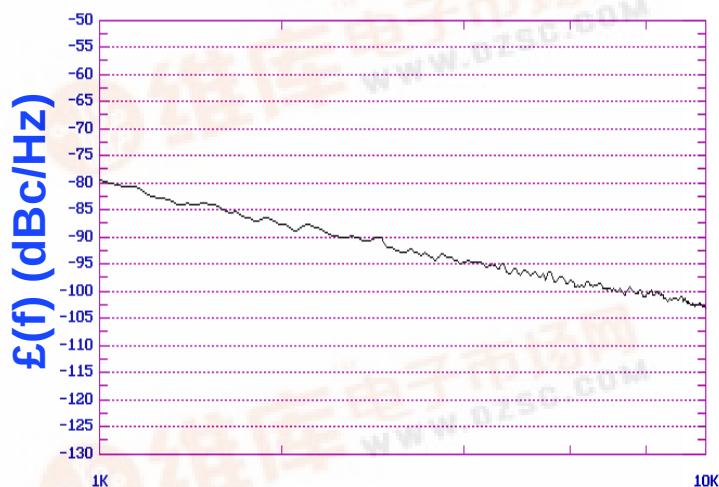
V585ME19

VOLTAGE CONTROLLED OSCILLATOR

Rev A1



PHASE NOISE (1 Hz BW, typical)



OFFSET (Hz)

FEATURES
- Frequency Range: 1500 - 2000 MHz - Tuning Voltage: 0.8-20 Vdc - MINI-14S - Style Package
APPLICATIONS
- Satellite Communications - Test Instrumentation - Cable Modems

PERFORMANCE SPECIFICATIONS	VALUE	UNITS
Oscillation Frequency Range	1500 - 2000	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-102	dBc/Hz
Harmonic Suppression (2nd, typ.)	-10	dBc
Tuning Voltage	0.8-20	Vdc
Tuning Sensitivity (avg.)	34	MHz/V
Power Output	5.5±1.5	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	100	pF
Pushing	<3	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<10	MHz
Operating Temperature Range	-40 to 85	$^{\circ}\text{C}$
Package Style	MINI-14S	
POWER SUPPLY REQUIREMENTS		
Supply Voltage (Vcc, nom.)	10	Vdc
Supply Current (Icc, typ.)	15	mA

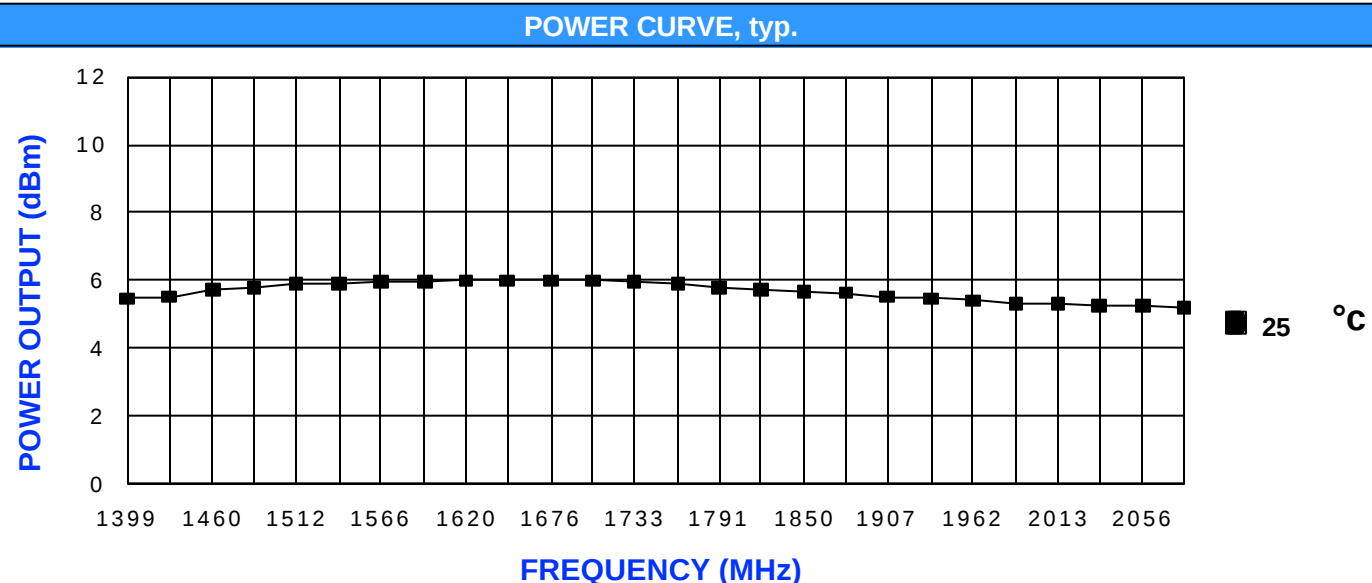
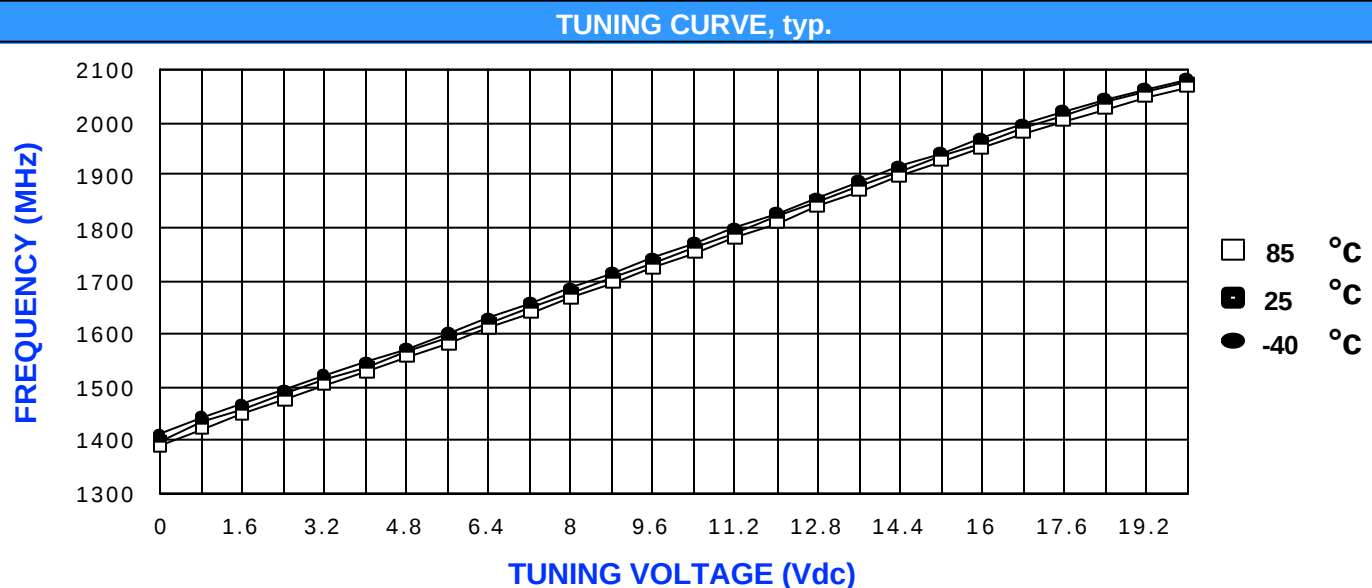
All specifications are typical unless otherwise noted and subject to change without notice.

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:

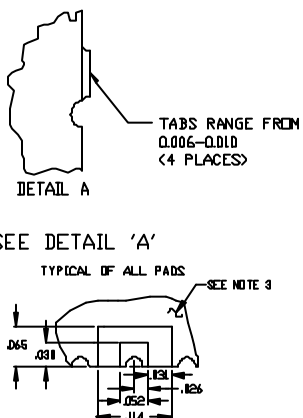
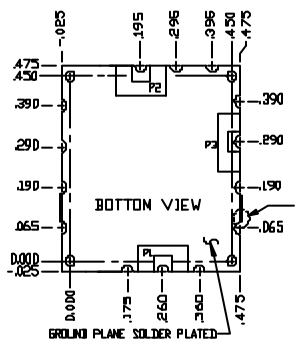

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PHYSICAL DIMENSIONS

MINI-14S
415-0062 REV. B
(DRAWING NOT TO SCALE)



- NOTES:
1. THE JUSTICE RADIUS OF ALL 14 HALF HOLES AT THE PERIPHERY OF THE BOARD ARE SOLDIER PLATED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE VCI TO A SUBSTRATE, IN 14 LOCATIONS, WITH A PAIS BEING USED FOR ELECTROMECHANICAL INTERFACE. 14 SOLDIER LOCATIONS REQUIRED.
 2. THE SURFACE OF THE SHIELD IS TIN PLATED AND THE SOLDIER 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± ±.000 | P1=VT
P2=RF OUT
P3=VCR |

