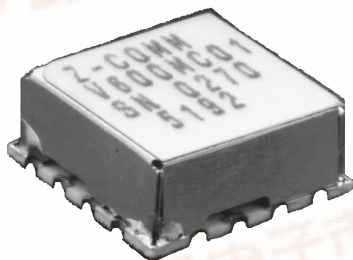


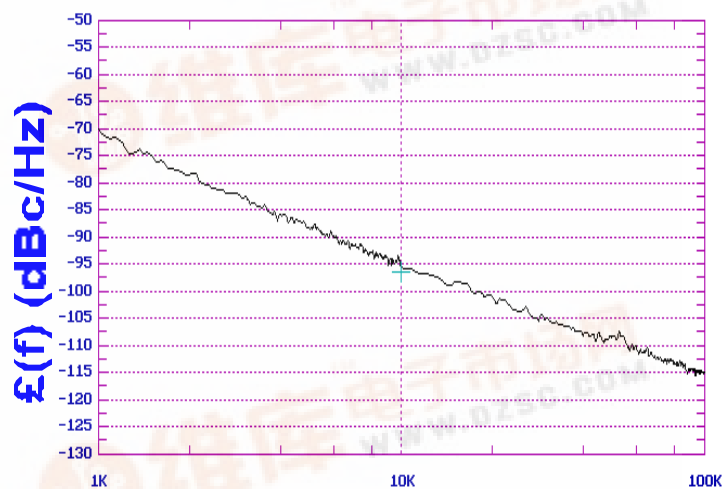
V585ME25

VOLTAGE CONTROLLED OSCILLATOR

Rev A1



PHASE NOISE (1 Hz BW, typical)



OFFSET (Hz)

FEATURES

- Frequency Range: 1250 - 2050 MHz
- Tuning Voltage: 1-20 Vdc
- MINI-14S-L - Style Package

APPLICATIONS

- Satellite Communications
- Test Instrumentation
- CATV Headend Equipment

PERFORMANCE SPECIFICATIONS

	VALUE	UNITS
Oscillation Frequency Range	1250 - 2050	MHz
Phase Noise @ 10 kHz offset (1 Hz BW, typ.)	-95	dBc/Hz
Harmonic Suppression (2nd, typ.)	-15	dBc
Tuning Voltage	1-20	Vdc
Tuning Sensitivity (avg.)	62	MHz/V
Power Output	7±2.5	dBm
Load Impedance	50	Ω
Input Capacitance (max.)	100	pF
Pushing	<3	MHz/V
Pulling (14 dB Return Loss, Any Phase)	<15	MHz
Operating Temperature Range	-10 to 75	°C
Package Style	MINI-14S-L	

POWER SUPPLY REQUIREMENTS

Supply Voltage (Vcc, nom.)	5	Vdc
Supply Current (Icc, typ.)	18	mA

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

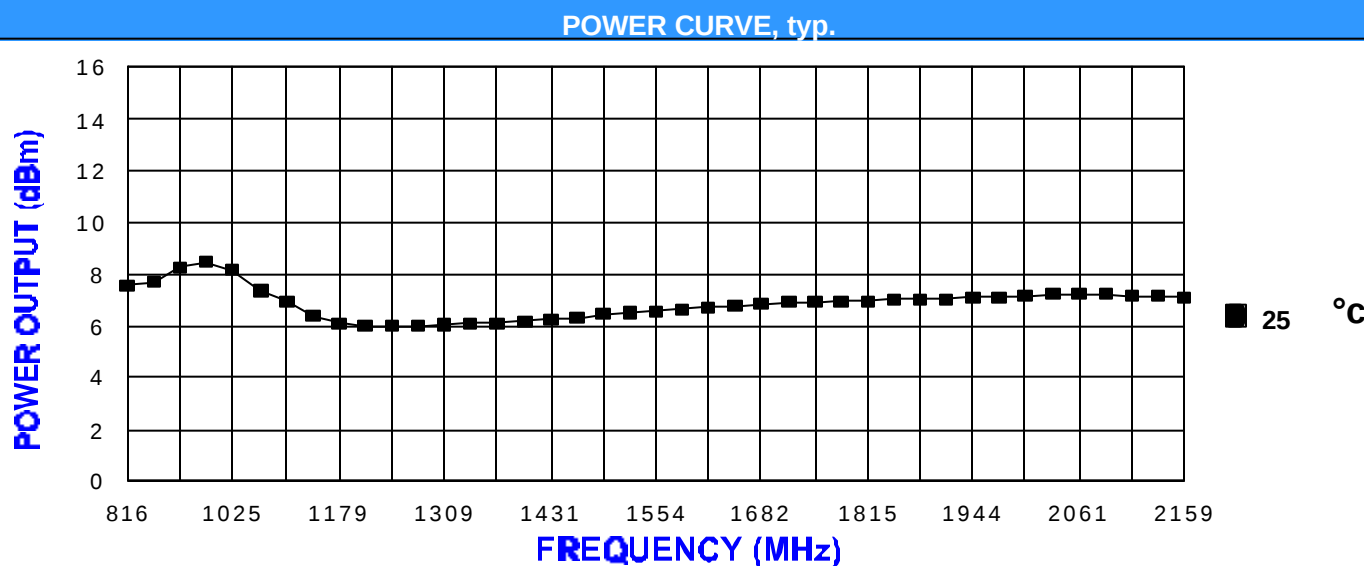
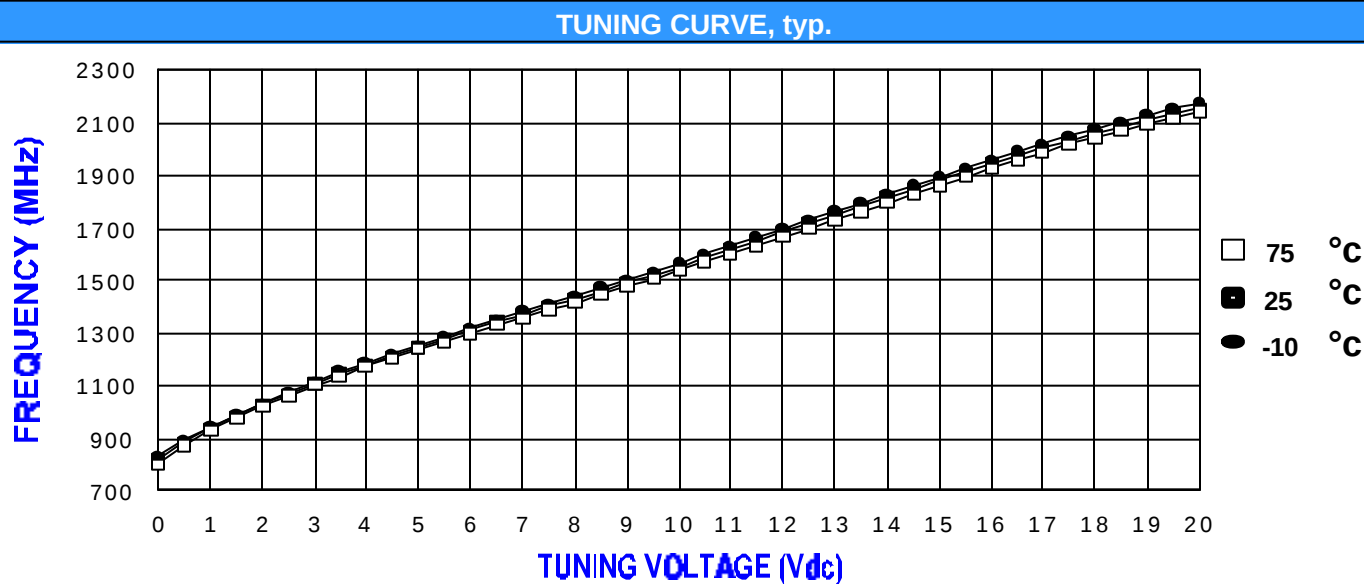
APPLICATION NOTES

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

NOTES:

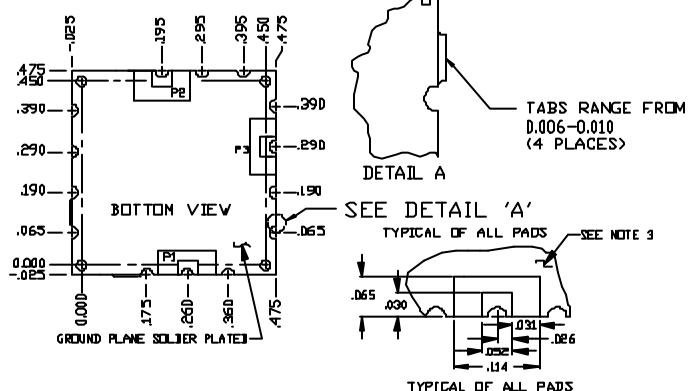
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V585ME25
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PHYSICAL DIMENSIONS

MINI-14S-L
415-0063 REV. B
(DRAWING NOT TO SCALE)



- NOTES:
1. THE INSIDE RADIUS OF ALL 14 HALF HOLES
A. THE PERIMETER OF THE BOARD ARE
SOLDER PLATED TO PROVIDE A SURFACE
FOR THE ATTACHMENT OF THE VCO TO A
NUTTERBOARD. IN 11 LOCATIONS WITH 3
PAIRS BEING USED FOR ELECTRICAL SIGNAL
INTERFACE. 14 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 RAIL 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 P=±.01
P=±.01
P=±.01

