Preliminary

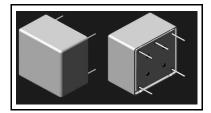
(Pb



- Oven Controlled Crystal Oscillators
- Very High Frequency Accuracy and Stability with Fast Warm-up
- Low Power Consumption, Small Size
- Low Phase Noise and Jitter
- Fixed-tuned and Voltage-tunable Options
- Typical Applications Include:
 - Cellular Base Stations
 - Communication Test Equipment
 - Precision Frequency Synthesizers
- Complies with Directive 2002/95/EC (RoHS)



5 to 100 MHz Frequency Range



Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units	
Frequency Range (Each OCX0 is Single Frequency)	Fo		5.000000		100.000000	MHz	
Initial Frequency Tolerance Options			100		200	ppb	
Warm-up Time to <10 ppb of 2 hour Warm-up Frequency (SC)		at 25 °C		10		minutes	
0 to 70 °C Temperature Range Operation:							
Stability Options, 5 to 40 MHz using AT Crystal			5		50	ppb	
Stability Options, 5 to 40 MHz using SC Crystal			4		20		
Stability Options, 40 to 100 MHz using AT Crystal			10		100		
Stability Options, 40 to 100 MHz using SC Crystal			4		50		
-20 to 70 °C Temperature Range Operation:							
Stability Options, 5 to 40 MHz using AT Crystal			5		50	ppb	
Stability Options, 5 to 40 MHz using SC Crystal			4		50		
Stability Options, 40 to 100 MHz using AT Crystal			10		100		
Stability Options, 40 to 100 MHz using SC Crystal			4		50		
-40 to 85 °C Temperature Range Operation:							
Stability Options, 5 to 20 MHz using AT Crystal			10		50	ppb	
Stability Options, 20 to 40 MHz using AT Crystal			10		100		
Stability Options, 40 to 100 MHz using AT Crystal			20		100		
Output Waveform Options:							
Sinewave Output, 50 ohm Load			harmonics -30 dBc, Non-harmonics -70 dBc				
HCMOS Output, 15 pF Load			40/60% duty cycle				
TTL Output, 5 TTL Load			40/60% duty cycle				
Power Supply Voltage Options, ±5% Tolerance	VCC		3.30	5.00	12.00	V	
Optional Voltage Tuning Feature:							
Voltage Tuning Range for 3.3 V Power Supply Option			0		2.8	V	
Voltage Tuning Range for 5 and 12 V Power Supply Options			0		3.0	V	
Frequency Tuning Range and Linearity, AT Crystal			1 to 3 ppm, 10% to 20% Linearity				
Frequency Tuning Range and Linearity, SC Crystal			0.5 to 1 ppm, 10% Linearity				
Tuning Input Impedance				100K		ohms	
Tuning Voltage Reference Output Impedance					100	ohms	
Tuning Voltage Reference Output Current					1	mA	
Operating Power:							
Within 2 minutes of Turn on				2.0	2.5	w	
Steady State				0.9			

Electrical Characteristics

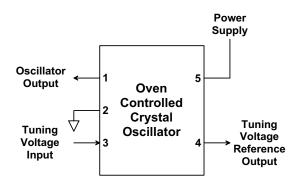
Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units
Aging:						
AT Crystal				50	200	ppb
SC Crystal				20	50	
SSB Phase Noise, 10 MHz SC Crystal Option:						
@ 10 Hz offset				-125		dBc/Hz
@ 100 Hz offset				-135		
@ 1 kHz offset				-145		
@ 10 and 100 kHz offset				-155		
Lid Symbolization		TBD // YWWS				

5-Pin Seam Weld Case 25.8 x 25.8 x 12.7 mm Nominal Dimensions

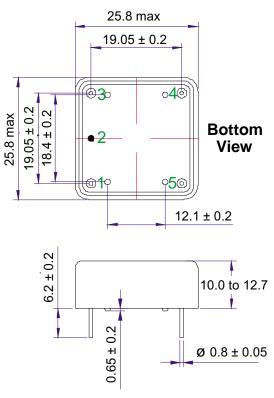
Pin Functions

Pin	Connection
1	Oscillator Output
2	Case/Circuit Ground
3	Tuning Voltage Input
4	Tuning Voltage Reference Output
5	Power Supply Voltage Input

Application Circuit



Case Outline Drawing



Dimensions in mm

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

1. The design, manufacturing process, and specifications of this device are subject to change without notice.