

RADITEK INC.

OVEN CONTROLLED CRYSTAL OSCILLATORS

code-z



ROCXO-140C SERIES

- Features
 - High Precision Oscillators
 - Wide Frequency Range: 1MHz to 100MHz
 - Standard Frequencies Available
 - Dip 14 Package

🔗 **Order Examples:** ROCXO-140C-13.00M-5v-SINE

Description: ROCXO-140C (Oven Controlled Crystal Oscillator, 13 MHz, 5 Volts, SINE)

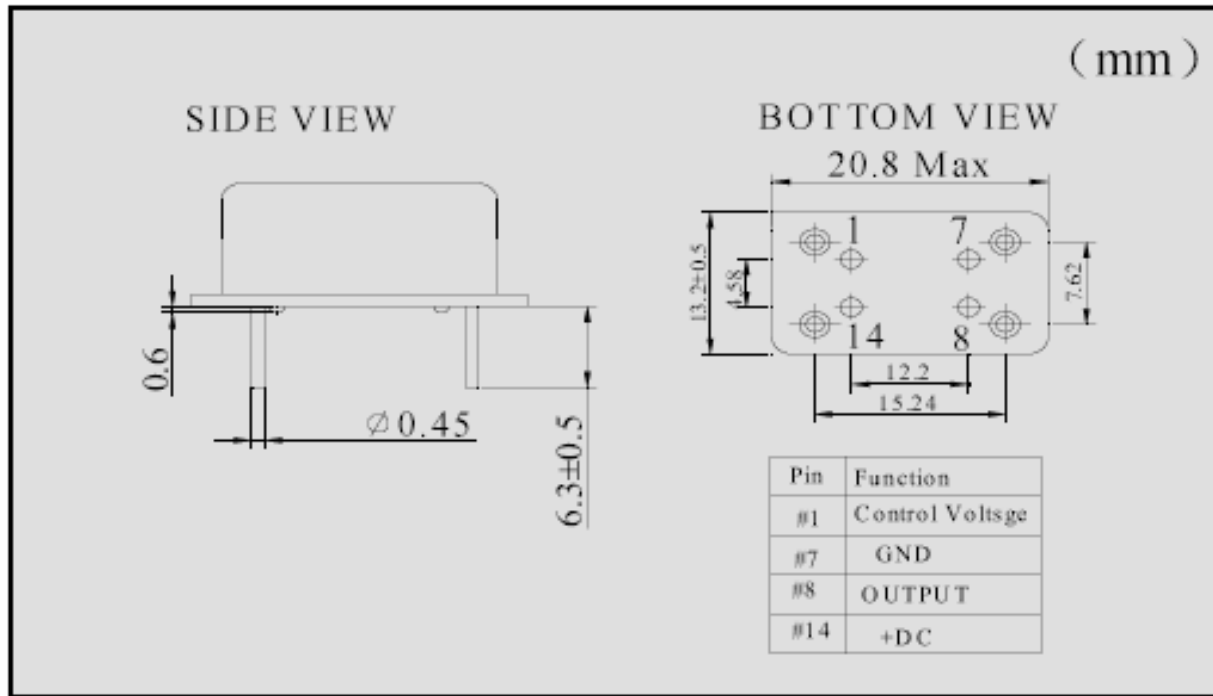
Frequency Range	1MHz ~ 100MHz
Standard Frequencies	5.0, 8.192, 10.0, 12.8, 13.0, 15.36, 16.384, 20.0, 40.0, 80.0, 100.0MHz
Supply Voltage	+5.0VDC $\pm 5\%$ +12VDC $\pm 5\%$
Output	Sine wave or HCMOS
Initial Calibration Tolerance	± 2 ppm at time of shipment(with EFC = $+2.5 \pm 0.5$ V)
Frequency Stability	
vs. Operating Temp. Range	See table below
vs. Aging/1 day	± 10 ppb Max. after 72 hours op.
vs. Aging/1st year	± 500 ppb Max. after 72 hours op.
vs. Voltage Change 5%	± 10 ppb Max.
vs. Load Change 5%	± 10 ppb Max.
Electronic Frequency Tuning (EFC)	
Tuning Range	± 5 ppm min.
Control Voltage Range	0 to +5 VDC 0 to +10 VDC
Linearity	$\pm 10\%$
Transfer Function	Positive
Power Dissipation	1W at steady-state, +25°C
Warm-up Time (at 25°C)	4 minutes maximum (to ± 100 ppb of nominal)
HCMOS Square Wave	
VOH Logic High "1"	4.5 VDC Min. for Vcc=12V or 5V 15pF load
VOL Logic Low "0"	0.5 VDC Max. for Vcc=12V or 5V 15pF load
Duty Cycle	45%/55%
Rise and Fall Times	10ns Max
Load	15pF
Sine Wave	
Output	7 dBm Min
Load	50 Ω
Storage Temp. Range	-55 ~ +105°C

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● Outline Drawing



● Frequency Stability

Operature Temp. Range(°C)	Stability(ppm)
0 ~ +50	±0.1
-20 ~ +70	±0.2
-40 ~ +85	±0.5