

RADITEK INC.

OVEN CONTROLLED CRYSTAL OSCILLATORS

code-z



ROCXO-300C SERIES

- Features

Crystal Oscillators with Ultra High precision (SC-Cut)

Wide Frequency Range: 1MHz to 100MHz

Standard Frequencies Available

Standard Package

🔗 Order Examples: ROCXO-300C-13.00M-5v-SINE, AT

Description: ROCXO-300C (Oven Controlled Crystal Oscillator, 13 MHz, 5 Volts, Output-SINE, Crystal Cut-AT)

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 +12VDC
Output	Sine or HCMOS
Crystal Cut	AT-Cut or SC-Cut
Frequency Stability	
vs. Operating Temp. Range	See table below
vs. Aging/1 day	AT-Cut: ± 1 ppb SC-Cut: ± 0.5 ppb
vs. Aging/1st year	AT-Cut: ± 0.1 ppm SC-Cut: ± 0.05 ppm
vs. Voltage Change 5%	± 1 ppb Max.
vs. Load Change 5%	± 1 ppb Max.
Electronic Frequency Tuning (EFC)	
Tuning Range	AT-Cut: ± 3 ppm SC-Cut: ± 1 ppm
Control Voltage Range	0 to +5VDC 0 to +10VDC
Linearity	$\pm 20\%$
Transfer Function	Positive
Power Dissipation	5W at steady-state, +25°C amb. 2W at turn-on
Warm-up Time (at 25°C)	AT-Cut: 5 minutes Max. SC-Cut: 4 minutes max. (to ± 0.1 ppm 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	0 to +17 dBm Min
Load	50 Ω
Storage Temp. Range	-55 ~ +105°C

ROCXO-300C Series-z

Specifications may be subject to change

10/16/06

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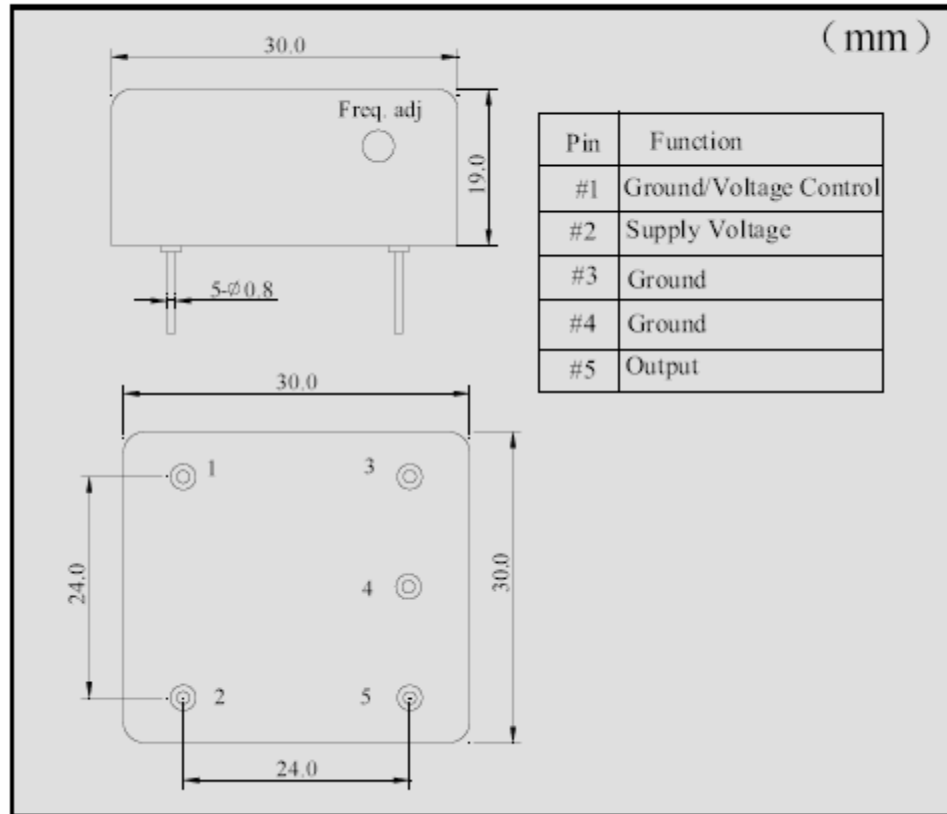
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● Outline Drawing



● Frequency Stability vs. Operating Temperature Range

Operating Temperature Range(°C)	AT-Cut(ppm)	SC-Cut(ppm)
0 ~ +50	±0.01	±0.002
-20 ~ +70	±0.02	±0.005
-40 ~ +85	±0.05	±0.01