Model 357

Voltage Controlled Crystal Oscillator

FEATURES

- Standard 7x5mm Surface Mount Footprint
- HCMOS/TTL Compatible Output
- Frequency Range 1.5 – 77.76 MHz
- Frequency Stability, ±50 ppm Standard (±25 ppm and ±20 ppm available)
- +3.3Vdc or +5.0Vdc Operation
- Operating Temperature to –40°C to +85°C
- Output Enable Standard
- Low Phase Jitter, ***NON-Multiplied***
- Tape & Reel Packaging
- **RoHS/Green Compliant**

DESCRIPTION

The Model 357 is a ceramic packaged Voltage Controlled oscillator offering reduced size and enhanced stability. The small size means it is perfect for any application. The enhanced stability means it is the perfect choice for today's communications applications that require tight frequency control.

ORDERING INFORMATION

357 ☐☐☐☐☐☐☐ M ☐☐☐☐

SUPPLY VOLTAGE

L = +3.3 Vdc, Pin 2 Enable (standard)
S = +5.0 Vdc, Pin 2 Enable (standard)
V = +3.3 Vdc, Pin 5 Enable
W = +5.0 Vdc, Pin 5 Enable

FREQUENCY IN MHz

M - indicates MHz and decimal point. Frequency is recorded with minimum 4 significant digits to the right of the "M".

ABSOLUTE PULL RANGE (APR)

B = ± 50 ppm APR (standard)
C = ± 80 ppm APR
D = ± 100 ppm APR

OPERATING TEMPERATURE RANGE

C = -20°C to +70°C (standard)
I = -40°C to +85°C *

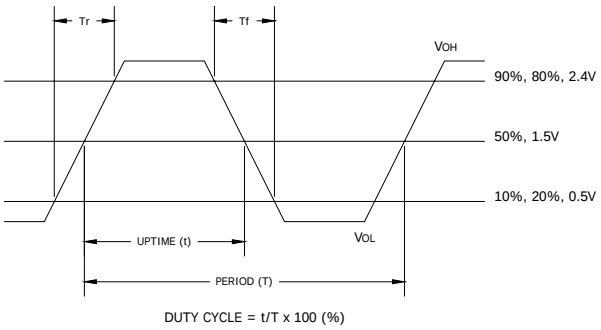
FREQUENCY STABILITY

3 = ± 50 ppm (standard)
5 = ± 25 ppm
6 = ± 20 ppm *

* Consult factory for 6I availability.

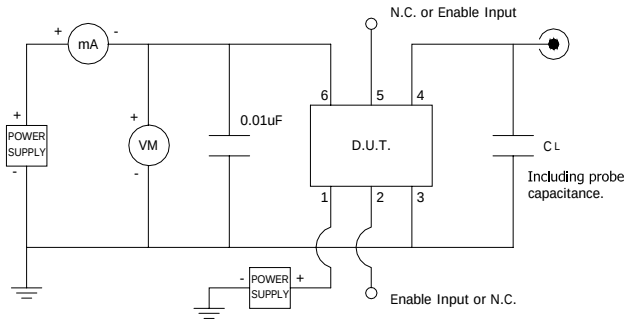
Model 357
7x5mm Low Cost
HCMOS/TTL Compatible VCXO

CMOS/TTL OUTPUT WAVEFORM



DUTY CYCLE = t/T x 100 (%)

TEST CIRCUIT, CMOS LOAD



D.U.T. PIN ASSIGNMENTS

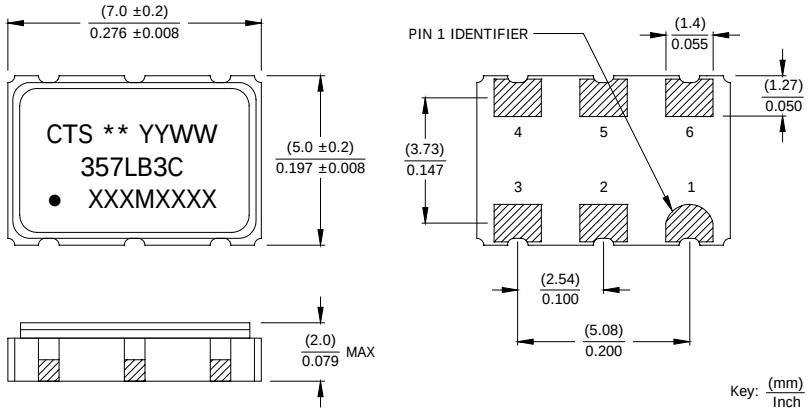
PIN	SYMBOL	DESCRIPTION
1	V_C	Control Voltage
2	EOH or N.C.	Enable or No Connect
3	GND	Circuit & Package Ground
4	Output	RF Output
5	N.C. or EOH	No Connect or Enable
6	V_{CC}	Supply Voltage

ENABLE TRUTH TABLE

PIN 2 or PIN 5	PIN 4
Logic '1'	Output
Open	Output
Logic '0'	High Imp.

MECHANICAL SPECIFICATIONS

PACKAGE DRAWING



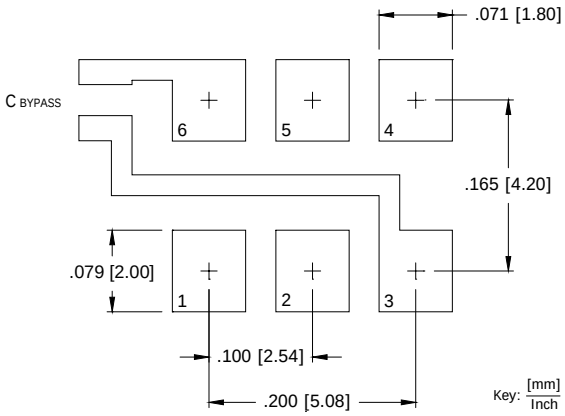
MARKING INFORMATION

1. ** - Manufacturing Site Code.
2. YYWW – Date code, YY – year, WW – week.
3. Truncated CTS part number.
4. XXXMXXXX - Frequency marked with 4 significant digits after the 'M'.

NOTES

1. Termination pads (e4), barrier-plating is nickel (Ni) with gold (Au) flash plate.
2. Reflow conditions per JEDEC J-STD-020.

SUGGESTED SOLDER PAD GEOMETRY



C_{BYPASS} should be ≥ 0.01 uF.

SUGGESTED REFLOW PROFILE