



TYPICAL APPLICATIONS

FEATURES

TYPICAL SPECIFICATIONS

OUTLINE DIMENSIONS

Unit:mm

Oscillator for

Low Voltage 1.8V

SMD

IEEE 1394

P/N OSC062100A-98.304-1.8-TS

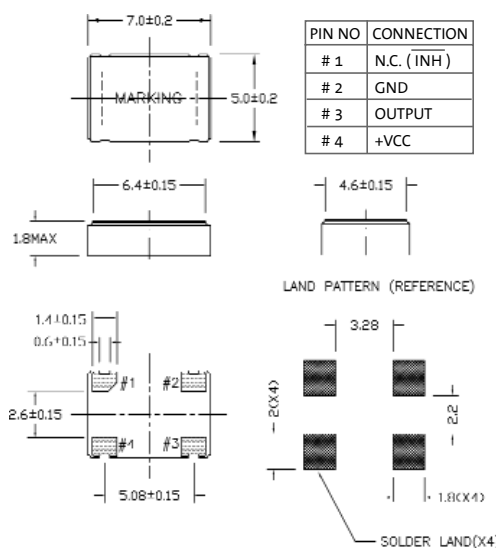
1.8V

This devise is designed for IEEE 1394b & other communication products.

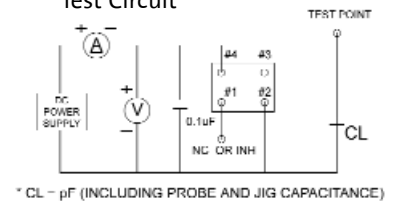
- * This Clock Oscillator Offers High Performance, Low Jitter Operation to Meet & Exceed the Need of IEEE 1394b Firewire Applications.
- * 5.0 x 7.0mm Surface Mount Package
- * 1.8 Volts Supply Voltage
- * Enable/Disable

Nominal Frequency	F0	98.304MHz
Supply Voltage Nominal	Vdd	1.8Volts±10%
Supply Current Maximum	Is	22mA @ 1.80Vdc, 15pF Load
Frequency Tolerance	Delta f/f0	±50ppm 25°C Reference Temp
Freq. Stability Vs Temp	Delta f/f0	±100ppm Over Entire Temp. Range**
Operating Temp. Range	Topr	0°C ~ +70°C
Storage Temp Range	Tstg	-55°C ~ +125°C
Output		HCMOS
Symmetry		45 / 55% Maximum @ Vdd / 2
Rise & Fall Time	Tr / Tf	2.5nS / 2.5nS Max. with 15pF Load
Logic High	Voh	1.2 Volts Minimum
Logic Low	Vol	0.4 Volts Maximum
Start Up Time		2mS Maximum
Output Load	Load	15pF Maximum
Aging 1st Year		±5ppm Max., 25°C ±3°C
Jitter		5pS Max. RMS (50,000 Cycles)
Phase Jitter		1pS Max. RMS(12KHz - 20MHz, 10,000 Cycles)

** Inclusive of tolerance @ 25°C, Operating Temp. range, Voltage or Load variations, Aging and vibration



Test Circuit



Reflow

