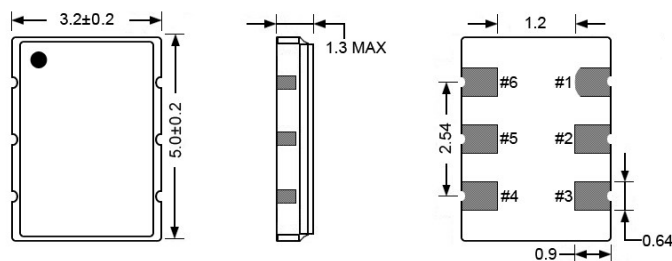


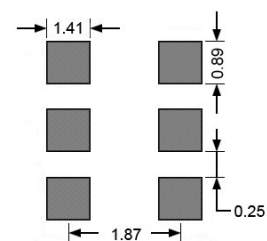
5x3.2mm Ceramic 6 Pad
 RoHS Compliant
 R.E.A.C.H Compliant
 LVPECL or LVDS
 2.5V or 3.3V
 10.000MHz to 1500MHz
**2 to 4 Week
 Lead Time**

CXA53 Series Oscillator

MECHANICAL DIMENSION (mm)



LAND PATTERN (mm)



Electrical Specifications

| | | |
|---------------------------------|--|---|
| Frequency Range | | 10.000MHz to 1500.000MHz |
| Mode of Oscillation | | Fundamental |
| Operating Temperature Range | | -20° to 70°C or -40° to 85°C |
| Storage Temperature Range | | -40°C to 125°C |
| Supply Voltage | VDD ±5% | 2.5V Or 3.3V |
| Output Level LVPECL | | VOH = VDD-1.03V max. (Nom. Load) VOL = VDD-1.6V max (Nom .Load) |
| Output Level LVDS | | VOD = (Differential Output) 350mV Typ. |
| Waveform | | LVPECL or LVDS |
| Input Current | LVPECL LVDS | 70mA Typical 30mA Typical |
| Load | LVPECL LVDS | 50Ω 100Ω |
| Frequency Tolerance / Stability | Inclusive of Operating Temp Range, Supply Voltage and Load | 25 or 50ppm |
| Duty Cycle | 50% of Waveform | 50 ± 5% |
| Rise Fall Time | | 600 pSecond Max |
| Phase Jitter | 12KHz to 20MHz | <1.0pSecond Typical |
| Startup Time | | 10mSeconds Max |
| Tri-State | VIH VIL | ≥0.7V _{DD} or No Connection ≤0.3V _{DD} or Ground |
| Aging | | ±3.0ppm First Year |

| Part Marking | |
|--------------|---|
| Line #1 | CXA53 |
| Line #2 | XX.XXX M XX.XXX = Frequency (5 Digits Max + Decimal) M = Frequency Unit Of Measure (MHz) |
| Line #3 | XX YY ZZ XX = Crescent Manufacturing Identifier YY = Last Two Digits of Year ZZ = Week of Year |

| Pad Connections | |
|-----------------|------------------------|
| Pad 1 | Tristate or No Connect |
| Pad 2 | Tristate or No Connect |
| Pad 3 | Ground |
| Pad 4 | Output |
| Pad 5 | Complimentary Output |
| Pad 6 | VDD |

| Phase Noise | |
|------------------|------------|
| Offset Frequency | 160.000MHz |
| 100Hz | -85dBc/Hz |
| 1KHz | -100dBc/Hz |
| 10KHz | -115dBc/Hz |
| 100KHz | -118dBc/Hz |
| 1MHz | -128dBc/Hz |
| 10MHz | -145dBc/Hz |

| Mechanical / Environmental | |
|----------------------------|-----------------------------------|
| Shock | MIL-STD-883, Method 2002 Cond B |
| Solvent Resistance | MIL-STD-202, Method 215 |
| Solderability | MIL-STD-883, Method 2003 |
| MSL | Level 1 Per IPC/JEDEC J-STD 20 |
| Gross Leak Test | MIL-STD-883, Method 1014, Cond C |
| Fine Leak Test | MIL-STD-883, Method 1014, Cond A2 |
| Vibration | MIL-STD-883, Method 2007, Cond A |

Part Numbering Guide

