

DATASHEET

General Description

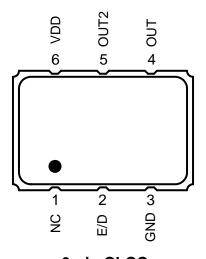
The XUQ is an Ultra Precision LVPECL Crystal Oscillator with 300fs typical phase jitter over 12kHz to 20 MHz bandwidth. Available in a wide frequency range from 16kHz to 670 MHz, the IDT XUQ Series Crystal Oscillator utilizes a family of proprietary ASICs, with a key focus on noise reduction technologies.

The 4th order Delta Sigma Modulator reduces noise to the levels that are comparable to traditional Bulk Quartz and SAW oscillators. With short lead-time, low cost, low noise, wide frequency range, excellent ambient performance, the XUQ is an excellent choice over the conventional technologies. The XUQ has stabilities as tight as ±20ppm with extremely quick delivery for both standard and custom frequencies.

Features

- Frequency range: 0.016 to 670 MHz
- Output Type: LVPECL
- Frequency Stability: ± 20ppm, ± 25ppm, ± 50ppm, or ± 100 ppm
- Supply Voltage: 1.8V, 2.5V, or 3.3V
- Phase Jitter (1.875MHz to 20MHz): 100fs typical
- Phase Jitter (12kHz to 20MHz): 300fs typical
- Package options: 5.0mm x 3.2mm x 1.2mm (JS6)
 7.0mm x 5.0mm x 1.3mm (JU6)
- Operating Temperatures: -20°C to +70°C or -40°C to +85°C

Pin Assignment



6-pin CLCC

Pin Descriptions

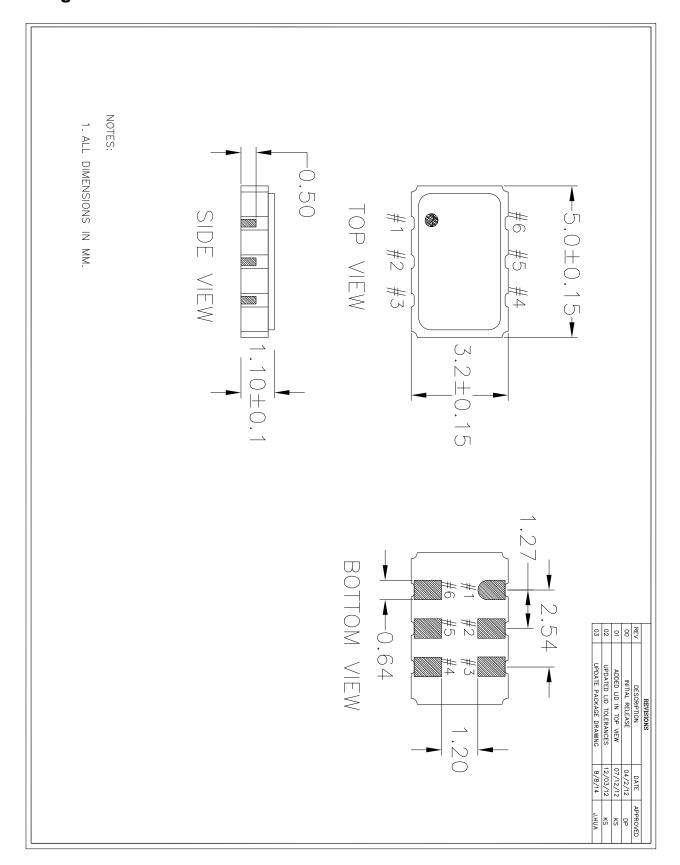
Pin Number	Pin Name	Description
1	NC	No connect
2	E/D	Enable/Disable ¹ (0=Output Disabled)
3	GND	Connect to ground
4	OUT	Output
5	OUT2	Complementary output
6	VDD	Supply Voltage

^{1.} Pulled high internally.

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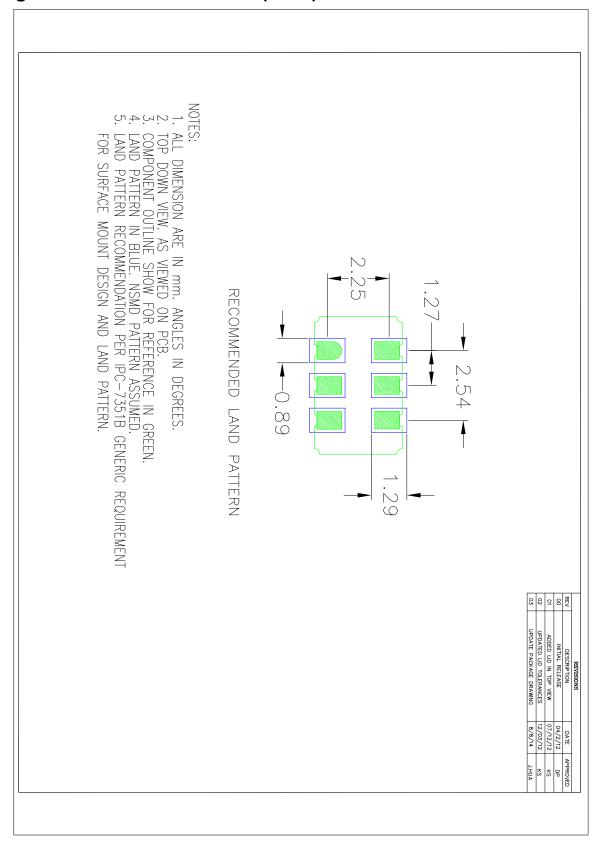
JS6 Package Outline and Dimensions



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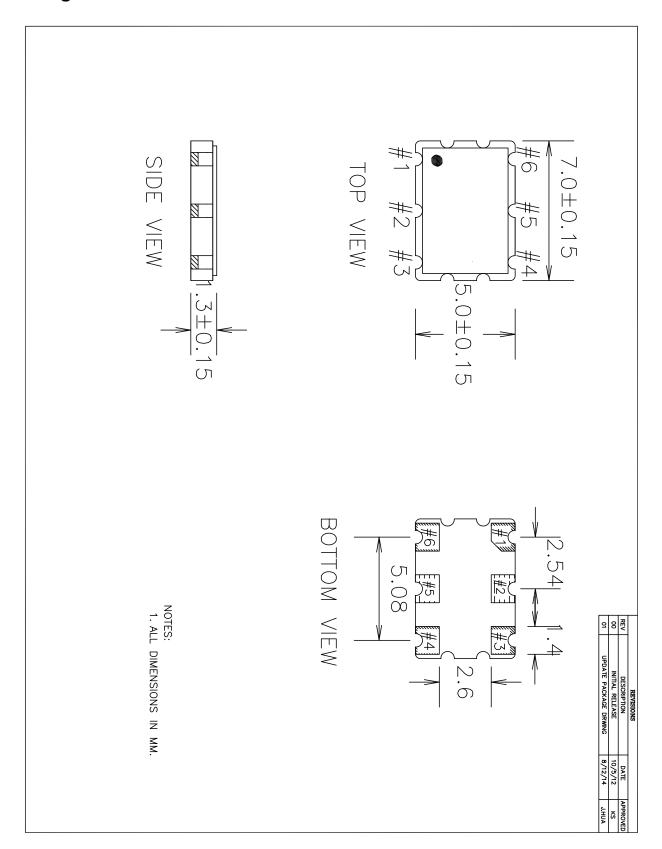
JS6 Package Outline and Dimensions (cont.)



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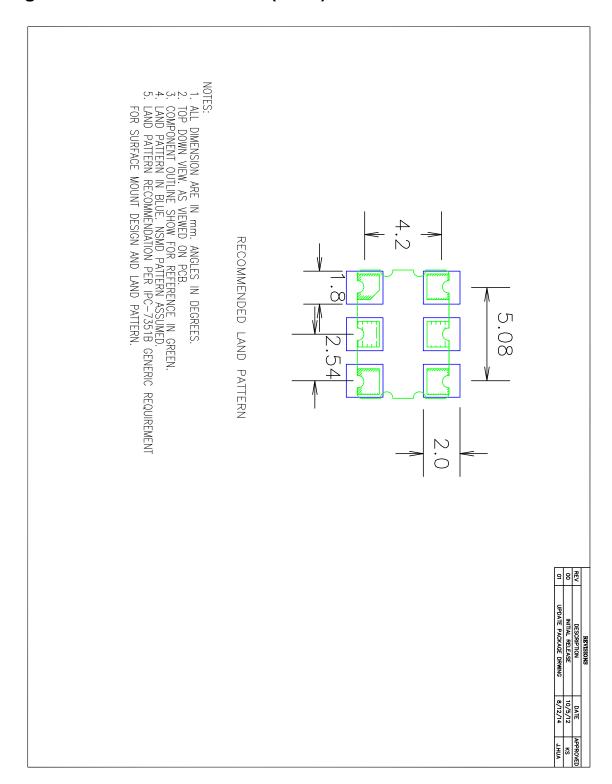
JU6 Package Outline and Dimensions



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JU6 Package Outline and Dimensions (cont.)



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