

DATASHEET

General Description

The XLL is an LVDS Crystal Oscillator with 0.89ps typical phase jitter over 12kHz to 20 MHz bandwidth. Available in a wide frequency range from 0.750MHz to 1350MHz, the IDT XLL Series Crystal Oscillator utilizes a family of proprietary ASICs, with a key focus on noise reduction technologies.

The 3rd 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 XLL is an excellent choice over the conventional technologies. The XLL has stabilities as tight as ±20ppm with extremely quick delivery for both standard and custom frequencies

Features

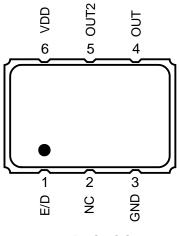
- Frequency range: 0.750MHz to 1350MHz
- Output Type: LVDS
- Frequency Stability: ± 20ppm, ± 25ppm, ± 50ppm, or ± 100 ppm
- Supply Voltage: 2.5V or 3.3V
- Phase Jitter (1.875MHz to 20MHz): 225fs typical
- Phase Jitter (12kHz to 20MHz): 0.89ps typical
- Package options: 3.2mm x 2.5mm x 1.0mm (JX6)

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

^{1.} Pulled high internally.

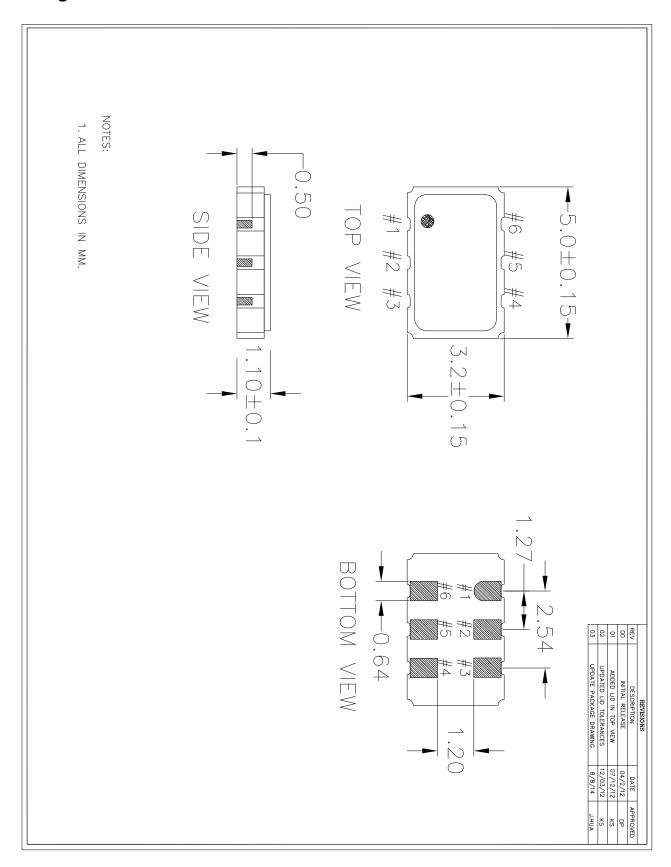
XLL OCTOBER 28, 2010

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e Technology, Inc.



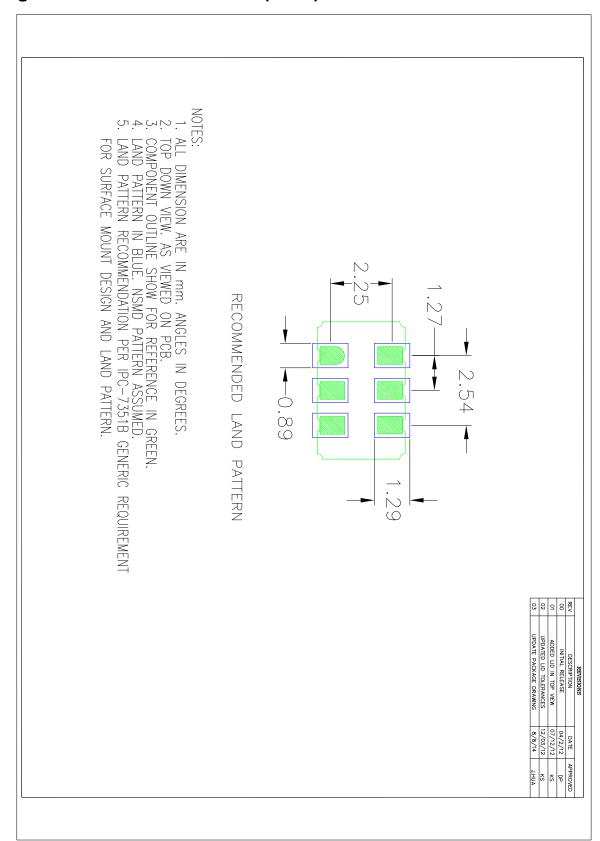
JS6 Package Outline and Dimensions



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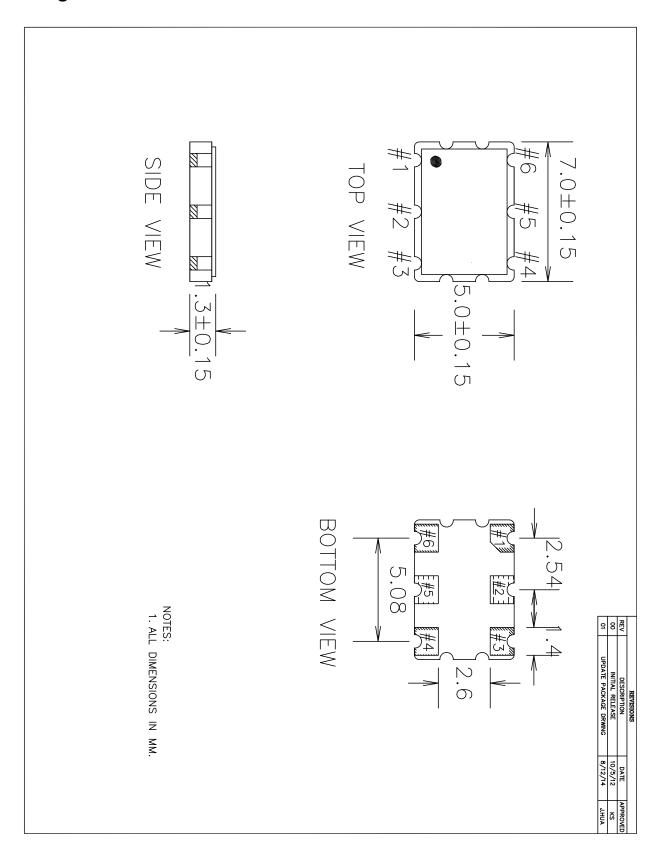
JS6 Package Outline and Dimensions (cont.)



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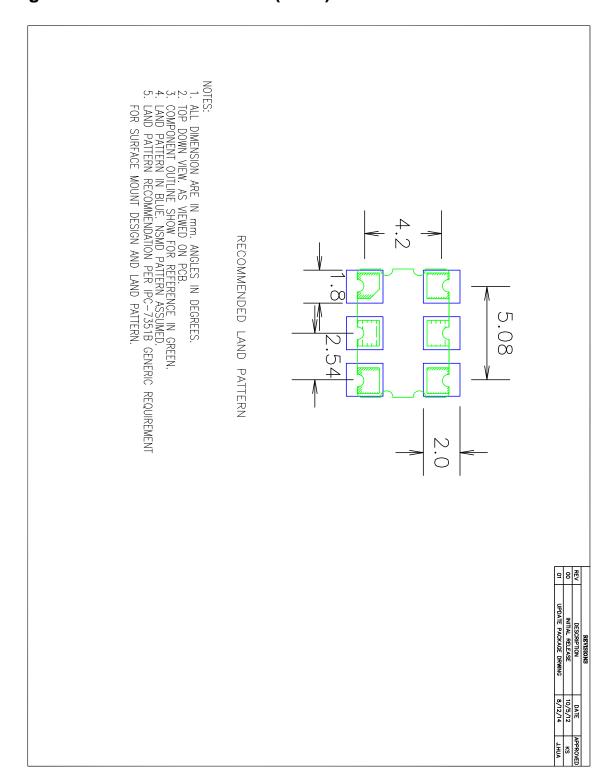
JU6 Package Outline and Dimensions



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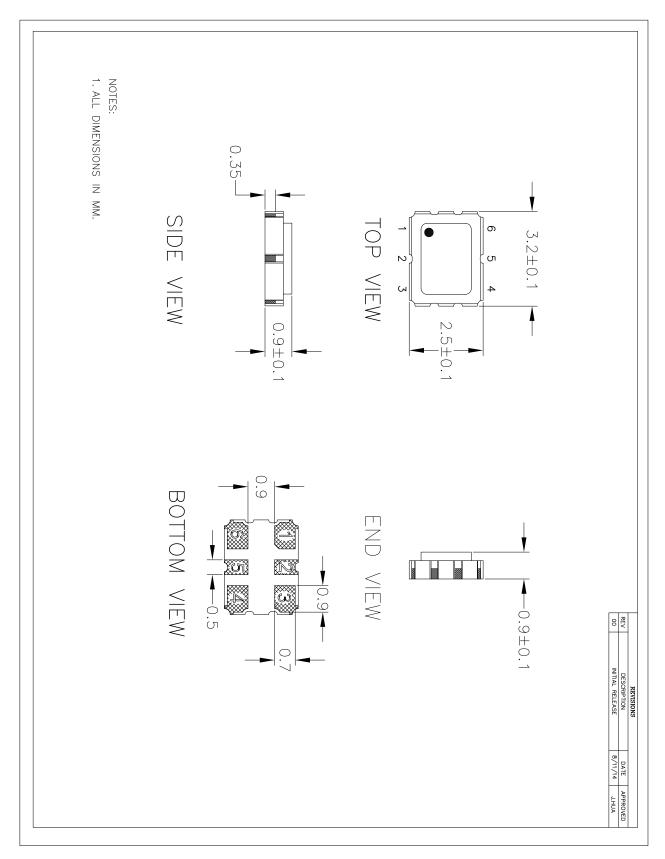
JU6 Package Outline and Dimensions (cont.)



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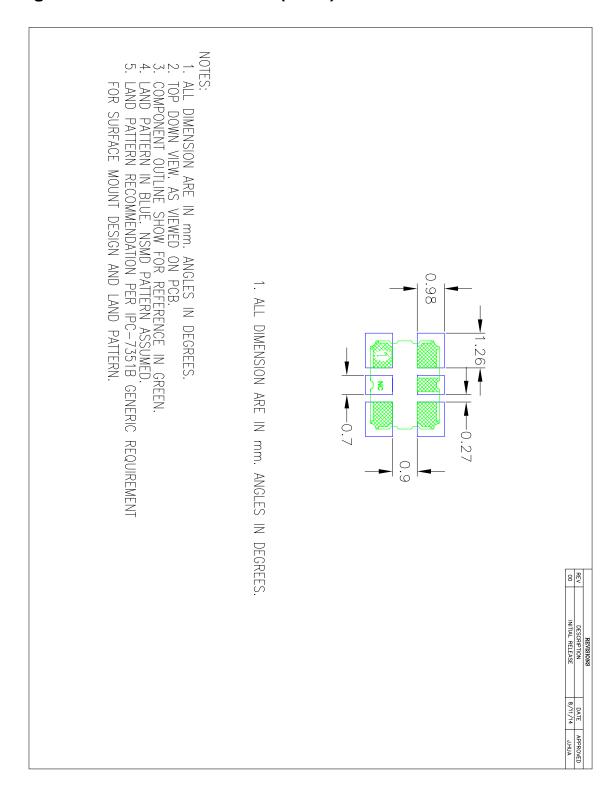
JX6 Package Outline and Dimensions



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JX6 Package Outline and Dimensions (cont.)



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