### **General Description**

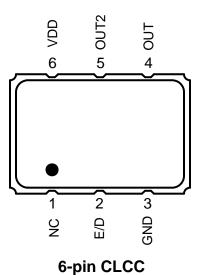
The XUM is an Ultra Precision LVDS Crystal Oscillator with 300 fs typical phase jitter over 12kHz to 20MHz bandwidth. Available in a wide frequency range from 16kHz to 1500MHz, the IDT XUM Series Crystal Oscillator utilizes a family of proprietary ASICs, with a key focus on noise reduction technologies.

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 XUM is an excellent choice over the conventional technologies. The XUM has stabilities as tight as  $\pm$  20ppm with extremely quick delivery for both standard and custom frequencies

#### **Features**

- Frequency range: 0.016 to 1500MHz
- Output Type: LVDS
- 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**



### **Pin Descriptions**

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

1. Pulled high internally.

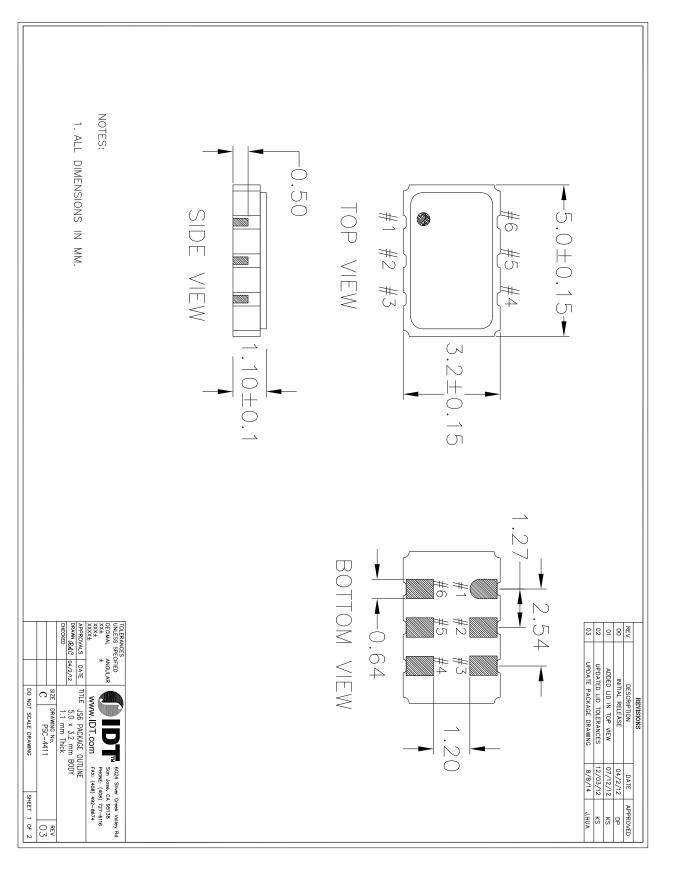




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# JS6 Package Outline and Dimensions





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### JS6 Package Outline and Dimensions (cont.)

NOTES:  $\geq$ ALL DIMENSION ARE IN mm. ANGLES IN DEGREES. TOP DOWN VIEW. AS VIEWED ON PCB. COMPONENT OUTLINE SHOW FOR REFERENCE IN GREEN. LAND PATTERN IN BLUE. NSMD PATTERN ASSUMED. LAND PATTERN RECOMMENDATION PER IPC-7351B GENERIC REQUIREMENT FOR SURFACE MOUNT DESIGN AND LAND PATTERN  $\sim$ . N Л . 2 RECOMMENDED LAND PATTERN 2.54 4 -0.89 Å . 29 DRAWN RAC 0 03 02 01 00 REV DATE 04/2/12 REVISIONS DESCRIPTION INITIAL RELEASE ADDED LID IN TOP VIEW UPDATED LID TOLERANCES UPDATE PACKAGE DRAWING NGULAR DO NOT SCALE DRAWING C DRAWING No. PSC-4411 TITLE www.IDT.com JS6 PACKAGE OUTLINE
5.0 × 3.2 mm BODY
1.1 mm Thick 6024 Silver Creek Volley Rd San Jose, CA 95138 PHONE: (408) 727-6116 DT.com FAX: (408) 492-8674 04/2/12 07/12/12 12/03/12 8/8/14 SHEET 2 OF 2 J.HUA REV 03

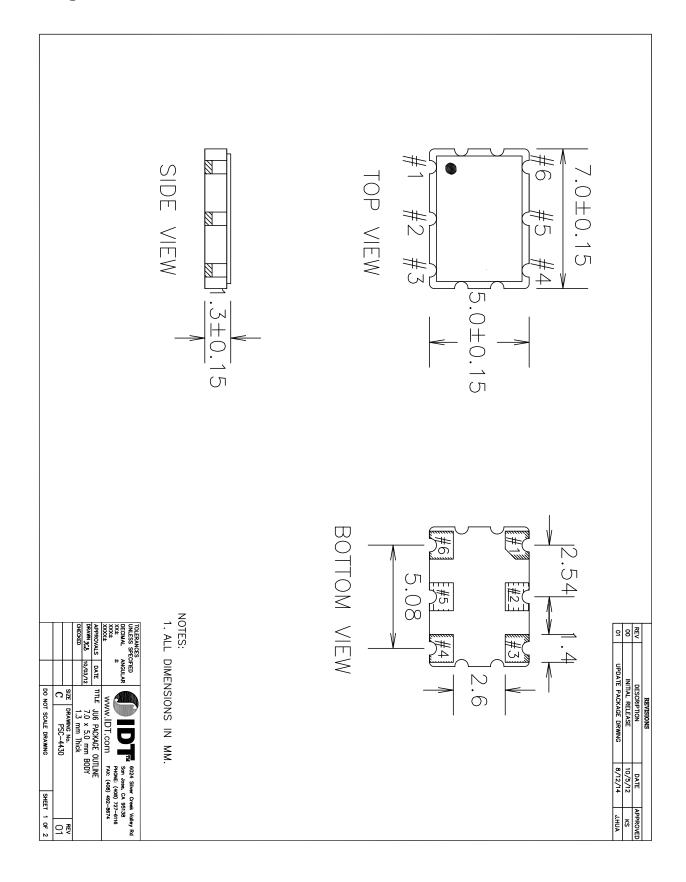
## JU6 Package Outline and Dimensions

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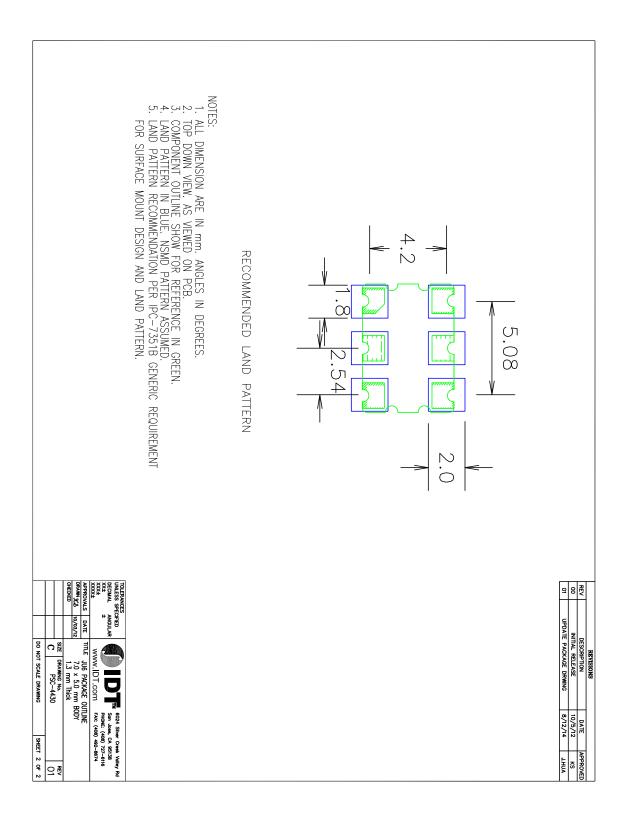
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# JU6 Package Outline and Dimensions (cont.)



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