

DATASHEET

General Description

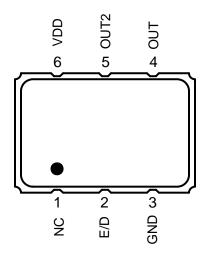
The XUM is an Ultra Precision LVDS Crystal Oscillator with 300 fs typical phase jitter over 12kHz to 20MHz bandwidth. Available in a wide frequency range from 16kHz to 1500MHz, the IDT XUM Series Crystal Oscillator utilizes a family of proprietary ASICs, with a key focus on noise reduction technologies.

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



6-pin CLCC

Pin Descriptions

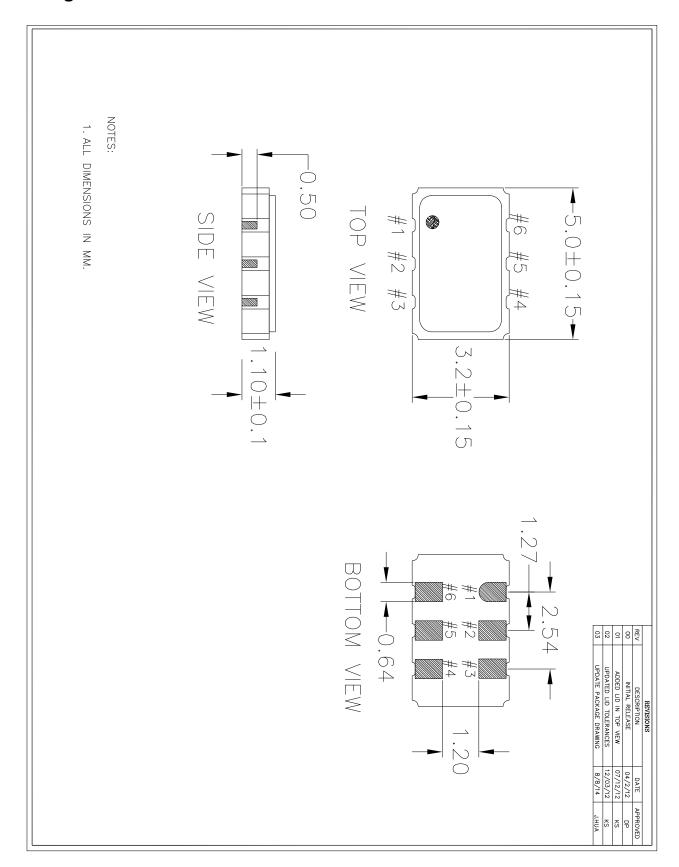
Pin Number	Pin Name	Description
1	NC	No connect
2	E/D	Enable/Disable ¹ (0=Output Disabled)
3	GND	Connect to ground
4	OUT	Output
5	OUT2	Complementary output
6	VDD	Supply Voltage

^{1.} Pulled high internally.

SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565



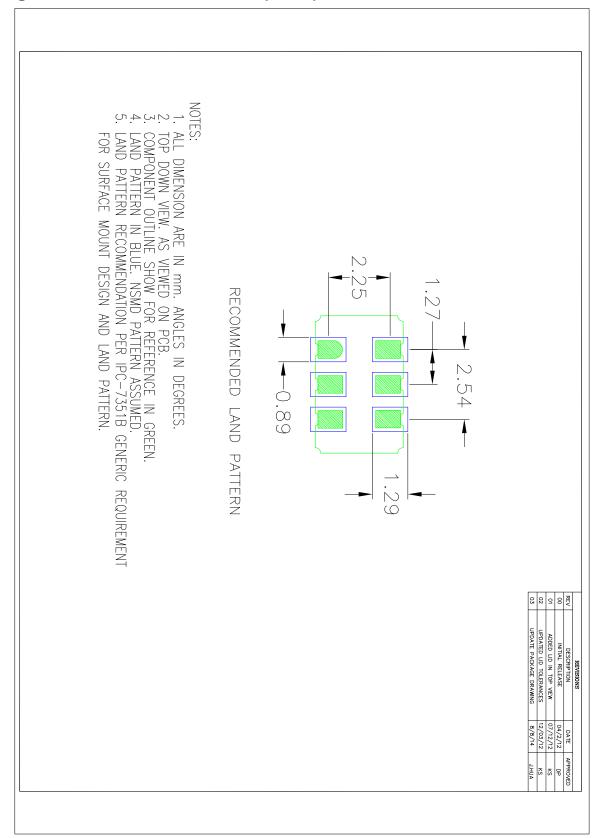
JS6 Package Outline and Dimensions



SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565



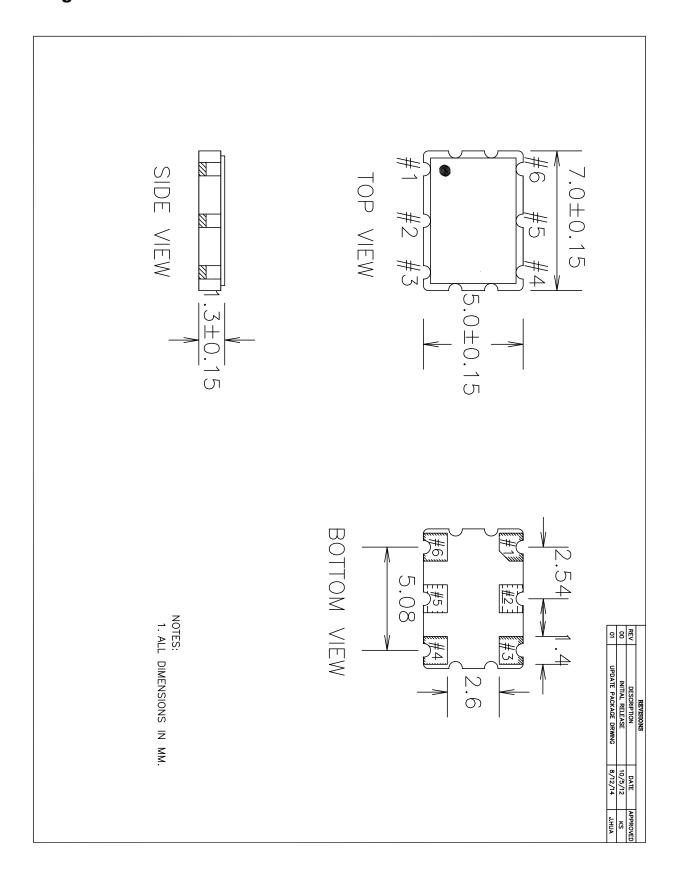
JS6 Package Outline and Dimensions (cont.)



SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565



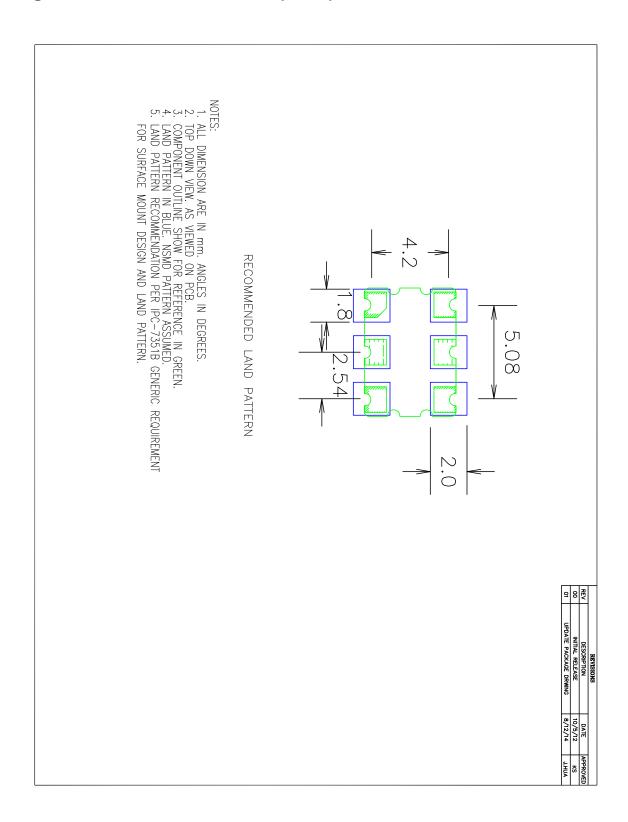
JU6 Package Outline and Dimensions



SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565



JU6 Package Outline and Dimensions (cont.)



SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565