



# Interquip Newsletter

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### *We are exhibiting at Electronica 2018!*



November 13-16, 2018  
Messe München

Interquip Electronics will be exhibiting at Electronica in Munich this November.

We welcome all of our partners and potential customers to visit our stand and have a chat about how we can help you come up with a frequency control solution for your existing and upcoming projects.

Our stand will be in **Hall C3, stand 436**. We look forward to seeing you there.

### *New product launch – THR-2520*

Interquip is proud to launch its THR-2520 series.

The THR-2520 series is a 2520 size crystal resonator with built-in thermistor. This series is well suited to mobile phone applications requiring temperature compensation without the complexity of a TCXO.

This series provides customers a cost-performance-quality balanced temperature compensated timing solution.

#### Features:

Size :	2.5 x 2.0	4pads
Frequency :	19.2MHz to 26MHz	
Load Capacitance :	7pF, 9pF or specified	
Tol. @ 25°C:	±12ppm or specified	
Temp.Characteristic :	±10ppm	
Operation Temp. :	-30°C ~ +85°C	



Contact Interquip at [marketing@interquip.com](mailto:marketing@interquip.com) or our representatives and distributors in your area for more details!



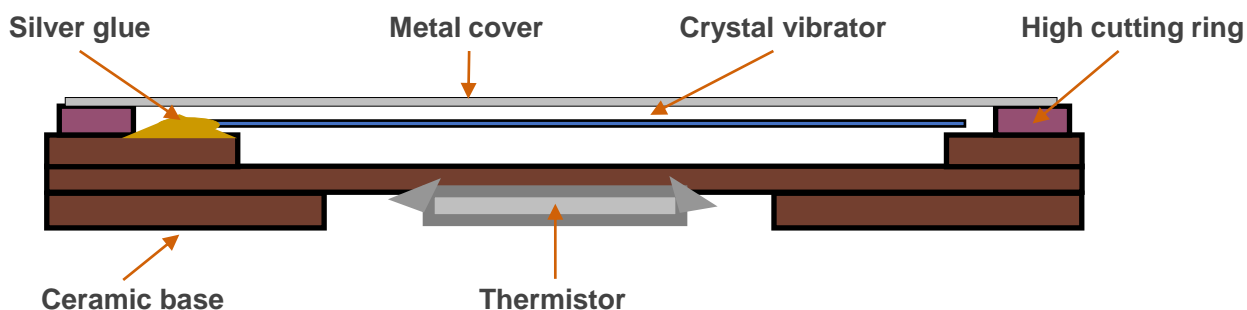
## Technical corner

### Introduction to crystal unit with thermistor



Crystal unit with thermistor refers to the thermistor plus quartz crystal resonator, which is one of the time-frequency solutions currently widely used in the 4G mobile phone market.

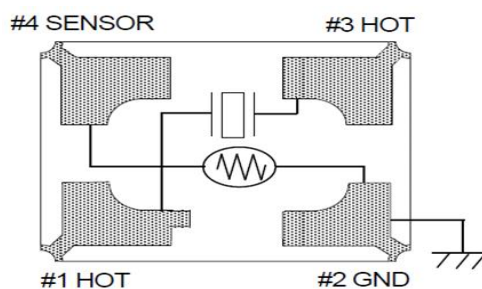
The creation of crystal unit with thermistor was for the purpose of replacing the costly TCXO, by using baseband or core chips on 4G mobile phones through algorithms and the configuration of thermistors.



This solution was first seen in the application of 3G mobile phones in 2010. After years of development, the algorithms of the current mainstream platforms (Qualcomm, MTK and Spreadtrum) have become increasingly mature, and the extremely high performance-price ratio has become the reason for the massive adoption of a large number of mobile phone manufacturers.

Due to the addition of the thermistor, the original non-polar crystal becomes polar, which must be paid attention to.

If you have any technical inquiries, please feel free to contact us!



◆ The End ◆



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