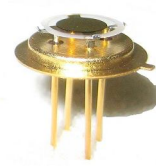




**LAP-TECH INC.**

"Focused on Frequency"

ISO 9001-2000



## TO5L-36 LOW PROFILE COLD WELD CRYSTAL

### NEW PRODUCT ADVISORY APRIL 2007

Lap-Tech is adding to its line of high reliability resonators with the incorporation of a new low profile cold weld package.

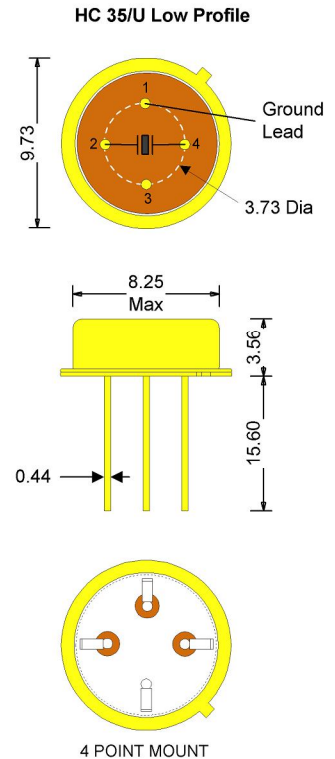
At only 3.6 mm high, this package has all the high performance characteristics of the Cold Weld TO5 package except for the lead pitch which is narrower.

The smaller pitch radius of the mounting posts allows for a longer, less stiff mounting tab. This is expected to be beneficial in reducing stresses in higher frequency crystals.

All surfaces are gold plated except the mounting tabs, which are 200 Nickel.

This allows the option of heat sealing using our latest batch sealing technique.

Leads can be tinned with lead free solder, all units are RoHS compliant.



AT & SC CUT RESONATOR MODES	FREQUENCY RANGES	TYPICAL SC Cut Q
FUNDAMENTAL	8 MHz	500 K
	25 MHz	220 K
OVERTONE 3	25 MHz	300 K
	60 MHz	180 K
OVERTONE 5	60 MHz	300 K
	130 MHz	100 K

### MATERIAL LIST

Lid: OHFC Copper  
Gold Flash

Base: 30/70 Copper clad Kovar  
Gold Flash

Leads: F-15 Alloy Kovar  
Gold Flash

Glass: 7052

Other frequencies and ranges are available on request.

For a quote or samples contact:

**Bob Parkins**

Phone 905 623 4101  
Fax 905 623 3886  
bparkins@laptech.com

For technical information contact:

**Dave Garvey**

Phone 905 623 4101  
Fax 905 623 3886  
dgarvey@laptech.com