



**CHRONTEL**

**CH7004**

Preliminary

*Technical Bulletin 12*

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## **Crystal Specifications for Macrovision Approval**

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**The following application note is applicable to CH7004C and CH7005C.**

Chrontel suggests the use of a 14.31818MHz crystal which exhibits  $\pm 20$  ppm frequency tolerance, in the external oscillator circuit of the above mentioned parts. We have found, this allows the vectorscope used by **Macrovision** in testing, to properly lock on to the color subcarrier signal.

To calculate the proper external load capacitance to be added to the XI and XO/FIN pins, please refer to application note AN-06.