

COM DEV/REC  
April 4, 2002  
FCC 731

Electronic

COM DEV Broadband NLT  
FCC §2.1055  
Frequency Vs Voltage and Temperature

**Specifications of Manufacturer for PCS per tests:**

<b>Temperature Range</b>	<b>-40 to +85°c</b>
<b>Maximum Frequency Deviation</b>	<b><math>\pm 7 \times 10^{-6}</math></b>
<b>Voltage Range</b>	<b>3 volts <math>\pm</math> 5%</b>
<b>Frequency Deviation Volts Change</b>	<b><math>0.2 \times 10^{-6}</math></b>

**Conditions:**

**No Heater involved  
Unit TX Po <3 watts (.2 w. max.)  
Battery operated**

**Notes:**

**See Manufacturer's specifications on next page.**

**Unit is a VCTXO oscillator.**

**Frequency is maintained well within FCC §24.235:**

"The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block."

**Frequency block is 15 MHz And 5 MHz**

**Required emissions bandwidth is 1.8 mHz.**

**This Oscillator is also locked to the Frequency of the main Access Point Oscillator frequency, which in turn is locked to the 10 mHz signal of the Communications Satellite. This gives a frequency accuracy of better than  $1 \times 10^{-10}$ .**

Com Dev Ex. F