Received: from msn.com - 207.46.181.56 by email.msn.com with Microsoft SMTPSVC;
       Fri, 7 Jan 2000 17:24:46 -0800
Received: from homerun.comdev.cc - 63.194.99.36 by msn.com with Microsoft
SMTPSVC;
       Fri, 7 Jan 2000 17:24:46 -0800
Received: (qmail 26428 invoked by uid 15724); 8 Jan 2000 01:24:43 -0000
Date: 8 Jan 2000 01:24:43 -0000
Message-ID: <20000108012443.26427.qmail@homerun.comdev.cc>
From: brett@comdev.cc
To: norwoodpatterson@msn.com
Subject: answers for manuals
Return-Path: brett@comdev.cc

Norwood,

Here are the answers to the 4 questions that you requested. If you need
anything more please give me a call.

-Brett

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1) Description of the oscillator circuit and how the temperature effect is
stabilized

The oscillator circuit is referenced to an oven controlled crystal oscillator.
The oven controlled crystal oscillator has a 0.5ppm frequency stability over
the temperature range of -30 degrees C to 60 degrees C.

2) Description of the audio limiting circuit

The audio limiting circuit is implemented in a Digital Signal Processor.
The signal input into the audio limiting circuit has a range of [-1,1). The
refrence level used through the system is a 1kHz tone with an amplitude of
+/- 2^(-6.5) produces a FM modulated carrier with 2.9kHz peak frequency
deviation. The audio limiting circuit thus limits the peak signal amplitude
to +/- 0.04578.

3) Description of the audio low pass filter

The audio low pass filter is implemented in a Digital Signal Processor. The
filter is a 25 tap interpolate-by-5 FIR filter with a cut-off frequency of
3kHz.

4) Desciption of the RF spurious filter

The RF spurious filtering is performed by two components: the high power
cavity tune combiners, and the transmit bandpass filter. The high power
cavity tune combiners provide 20-30dB attenuation 300kHz outside the channel.
The transmit bandpass filter attenuates spurious emmisions outside the transmit
cellular band of 870MHz - 894MHz.