

## Temperature Compensated Crystal Oscillators

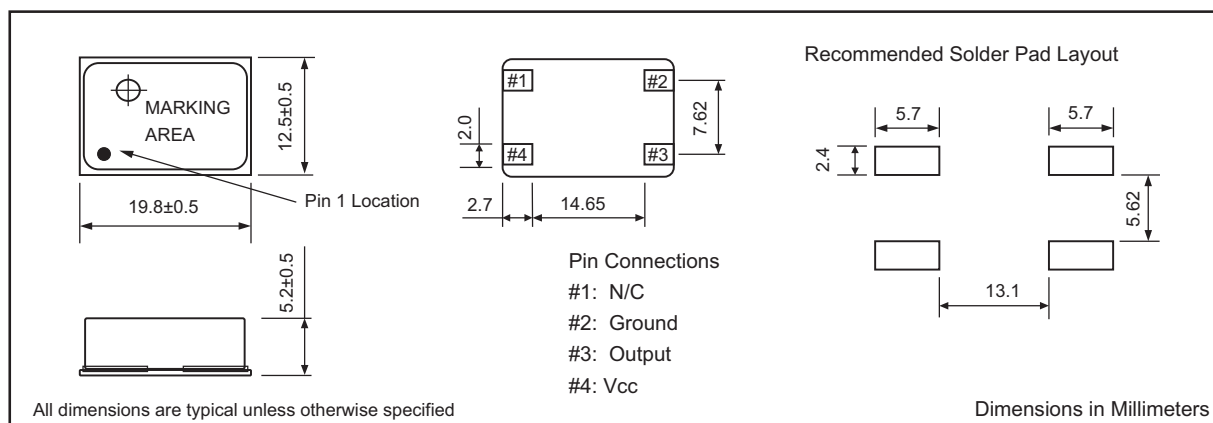


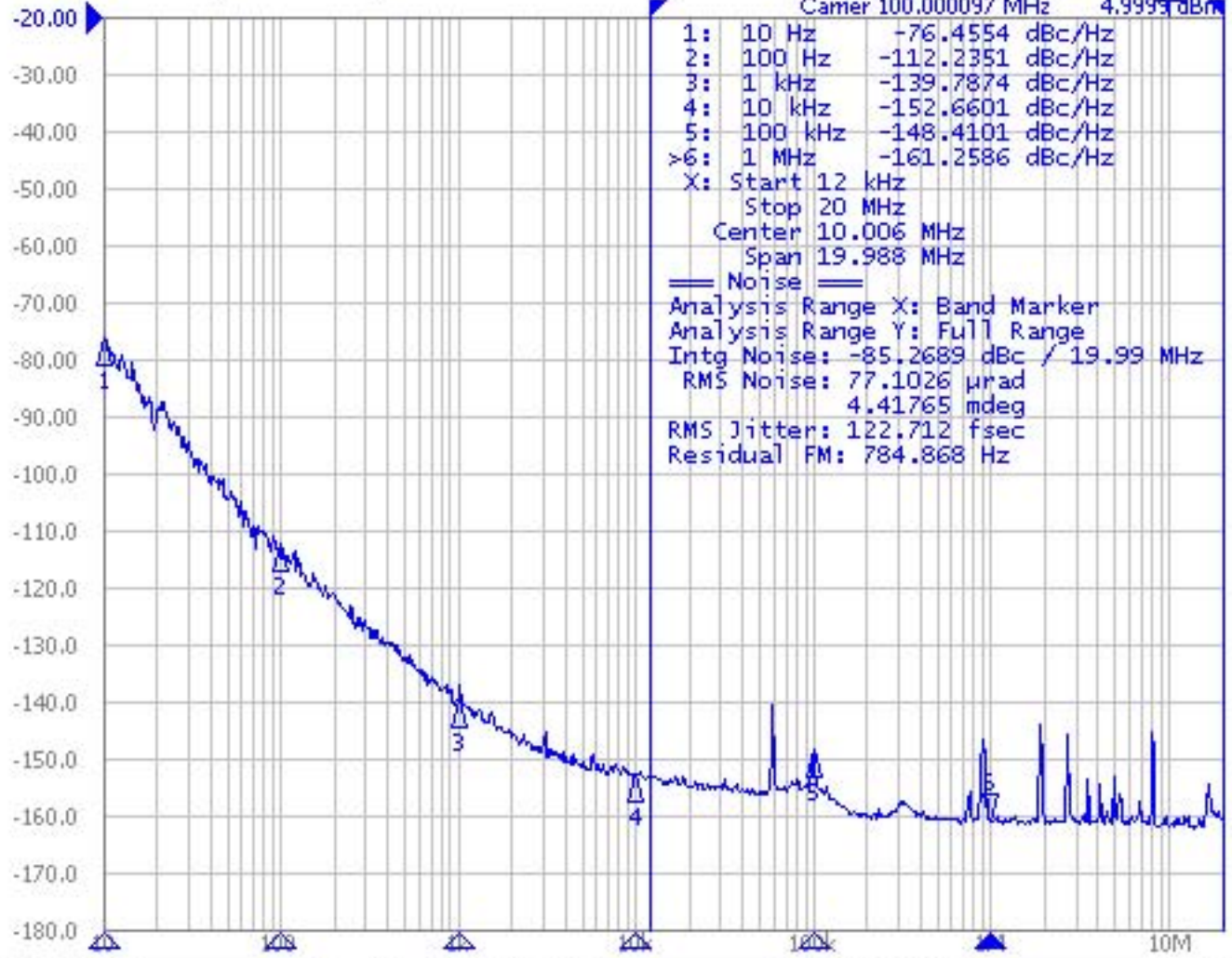
**P/N: FTTC800-100M000-AI010B**

### SPECIFICATIONS

<b>Frequency</b>	100.000 MHz
<b>Supply Voltage (Vcc)</b>	A = 5.0 VDC $\pm$ 5%
<b>Input Current</b>	30 mA Maximum
<b>Storage Temperature</b>	-45°C to 95°C
<b>Controllable Frequency Option</b>	I = Internal trimmer: $\pm$ 3 ppm Minimum
<b>Frequency Stability vs Temp. Temperature Range</b>	010 = $\pm$ 1 ppm B = -40°C to 85°C
<b>Frequency Stability vs Vcc</b>	$\pm$ 0.2 ppm Maximum / Vcc $\pm$ 5%
<b>Frequency Stability vs Load</b>	$\pm$ 0.2 ppm Maximum / $\pm$ 10%
<b>Aging</b>	$\pm$ 1 ppm Maximum per year @25°C
<b>Phase Noise (Typ)</b>	-76 dBc/Hz at 10Hz -112 dBc/Hz at 100Hz -140 dBc/Hz at 1KHz -152 dBc/Hz at 10KHz -161 dBc/Hz at 1MHz
<b>Output Load</b>	50 Ohms
<b>Output Waveform</b>	Sine wave
<b>Output Level</b>	10 dBm Typ for 5.0V part
<b>Harmonic Attenuation</b>	-30 dB Typ
<b>Spurious Attenuation</b>	-75 dB Typ

### OUTLINE DRAWING





Carrier 100.000097 MHz 4.9999 dBm

1:	10 Hz	-76.4554 dBc/Hz
2:	100 Hz	-112.2351 dBc/Hz
3:	1 kHz	-139.7874 dBc/Hz
4:	10 kHz	-152.6601 dBc/Hz
5:	100 kHz	-148.4101 dBc/Hz
>6:	1 MHz	-161.2586 dBc/Hz

X: Start 12 kHz  
Stop 20 MHz  
Center 10.006 MHz  
Span 19.988 MHz  
== Noise ==  
Analysis Range X: Band Marker  
Analysis Range Y: Full Range  
Intg Noise: -85.2689 dBc / 19.99 MHz  
RMS Noise: 77.1026  $\mu$ rad  
4.41765 mdeg  
RMS Jitter: 122.712 fsec  
Residual FM: 784.868 Hz

Trigger

Trigger to  
Phase Noise

Hold

Single

Continuous

Restart

Manual  
Trigger

Source  
Internal

Ext Trig Polarity  
Negative

Average Trigger  
OFF

Return

IF Gain 20dB Freq Band [99M-1.5GHz] LO Opt [<150kHz] 814pts