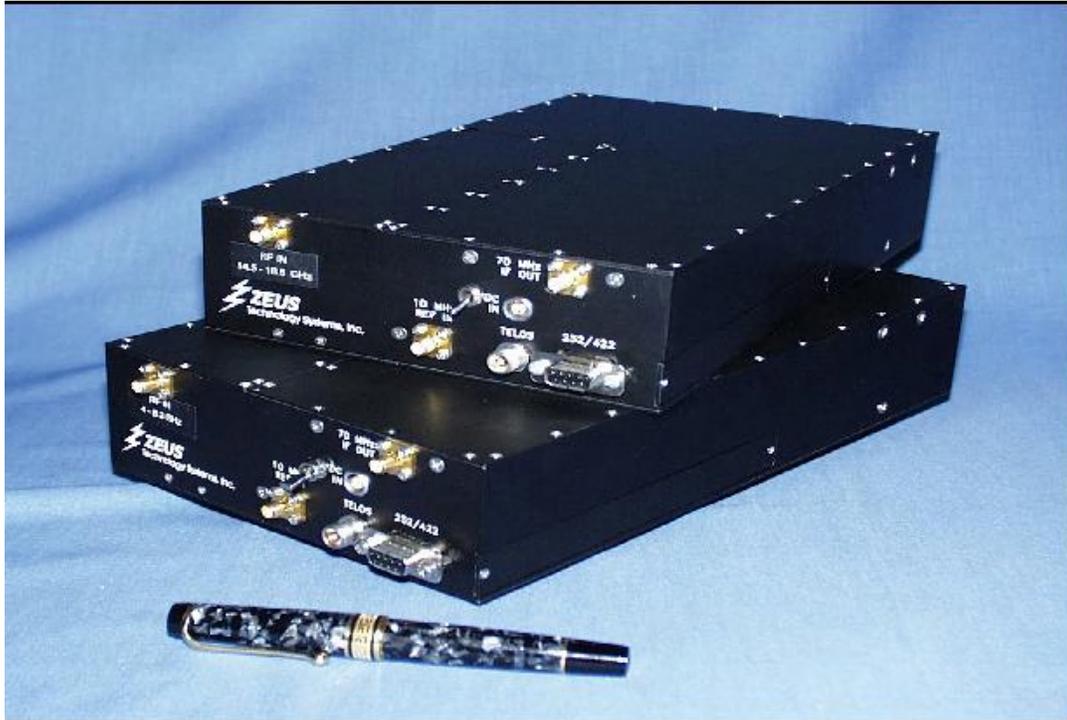




**ZEUS** *Technology Systems, Inc.*  
Technical Data Sheet

**ZMT-200**  
**Miniature Microwave Tuners**



**DESCRIPTION**

The Zeus Technology Systems' Model **ZMT-200** family of Miniature Microwave Set On Tuners features contiguous coverage from 0.5 GHz to 27.0 GHz across the set of eight compact 2.25" x 6.5" x 11" chassis. In spite of the extremely compact packaging the **ZMT-200** family delivers the superior performance required to handle the modern analog and digital modulated signals, yet consumes less than 26 watts (significantly less for some tuners). Features such as five selectable IF bandwidths, excellent sensitivity, high dynamic range, extremely low Noise Figure, low phase noise, and fine-tuning resolution make field set up easier.

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**FEATURES**

- **0.5 to 27 GHz** contiguous coverage
- Multiple selectable 70 MHz IF wideband outputs: **2 MHz; 6 MHz; 12 MHz; 25 MHz; 36 MHz** and **50 MHz** (Other BW's optional)
- Small size: **2 1/4" x 11" x 6 1/2"** (Chassis less than a 1/10 of a cubic foot)
- Light weight: **≤ 11 lbs**
- Minimal Power: **≤ 26 Watts**
- Low Noise Figure: **4.2dB ≤ NF ≤ 7.0 dB**
- Low Phase Noise: **≤ 0.4<sup>0</sup> RMS**
- **RS-232, RS-422** and **Manual Control**

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## ZMT-200 Series SPECIFICATIONS

<b>Frequency Coverage</b> .....	0.5 GHz through 27 GHz, contiguous coverage with eight tuners:
<b>ZMT-205</b> .....	0.5 - 4.2 GHz
<b>ZMT-208</b> .....	4.0 - 8.2 GHz
<b>ZMT-211</b> .....	8.0 - 11.0 GHz
<b>ZMT-215</b> .....	11.0 - 14.5 GHz
<b>ZMT-219</b> .....	14.5 - 18.5 GHz
<b>ZMT-220</b> .....	17.6 - 20.3 GHz
<b>ZMT-224</b> .....	20.2 - 24.2 GHz
<b>ZMT-227</b> .....	24.0 - 27.0 GHz
<b>IF Center Frequency</b> .....	70 MHz (140 MHz optional)
<b>70 MHz IF Bandwidth</b> .....	2; 6; 12; 25; 36 and 50 MHz, selectable (Any 5 of above available; other choices optional)
<b>Tuning Resolution</b> .....	1 KHz
<b>Integrated Phase Noise</b> .....	< 0.4 <sup>0</sup> RMS
<b>LO Spurious</b> .....	< -60 dBc
<b>Noise Figure</b> .....	4.2 - 7.0 dB Noise Figure, typical
<b>Image Rejection</b> .....	>60 dB
<b>VSWR</b> .....	2.0:1
<b>AGC Gain Control Range</b> .....	-90 dBm to -30 dBm
<b>IF Output Power in AGC</b> .....	-15 dBm nominal over -90 to -30 dBm
<b>Reference Frequency</b> .....	Internal, or External, Auto switching
<b>Power</b> .....	20 to 26 Watts, depending on tuner model
<b>Size</b> .....	2 ¼" x 11" x 6 ½"
<b>Weight</b> .....	11 lbs
<b>Control</b> .....	RS-232, RS-422 and Manual Control
<b>Operational Temperature</b> .....	0 to +60 <sup>0</sup> C

### OPTIONS

★ Downconverter

★ Demodulator

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