



ZEUS Technology Systems, Inc.
Technical Data Sheet

ZSR-010
Miniature Microwave Tuner

DESCRIPTION

The Zeus Technology Systems' Model **ZSR-010** Miniature Microwave Surveillance Tuner features contiguous coverage from 20 MHz to 10.0 GHz in a compact 8.0" x 4.0" x 2.5" chassis. In spite of the extremely compact packaging the **ZSR-010** delivers the superior performance required to handle modern analog and digitally modulated signals, yet consumes less than 12 watts. Offering both IF and near baseband outputs allows for traditional and DSP analysis of the signal environment. Features such as multiple IF bandwidths, excellent sensitivity, high dynamic range, extremely low Noise Figure, low phase noise, and fine-tuning resolution allow a diverse array of applications to be supported. Sophisticated step/sweep algorithms programmed within the tuner allow multiple bands to be processed with independent bandwidth and gain settings for autonomous signal detection. Dual Antenna Ports allow use of multiple antennas for instant wideband search, as required when collecting signals over the huge band coverage offered by the **ZSR-010**.



FEATURES

- **0.020 to 10 GHz** contiguous coverage
- Multiple selectable 70 MHz IF wideband outputs: **5 MHz; 10 MHz; 20 MHz** and **35 MHz** (Other BW's optional)
- Near Baseband output
- Small size: **8"x 4"x 2.5"** (Chassis less than a 1/20 of a cubic foot)
- Light weight: **≤ 6 lbs**
- Minimal Power: **≤ 12 Watts**
- Low Noise Figure: **10dB ≤ NF ≤ 15 dB**
- Low Phase Noise: **≤ 1.0⁰ RMS**
- **RS-232** and **USB Control**

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All specifications subject to change without notice

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ZSR-010 Series SPECIFICATIONS

Frequency Coverage	0.020 - 10.0 GHz
IF Center Frequency	70 MHz
Baseband Center Frequency	Bandwidth dependant: 5; 10; 20 and 35 MHz, selectable
70 MHz IF Bandwidth	(Any 4 of above available; other choices optional)
Preselector	Tracking & Switched, full band
Tuning Resolution	1 Hz
Tuning Time	0.5 mSec
Tuning Modes	Fixed, Step, Sweep, w/Stop or Rpt on COR
Phase Noise	< -90 dBc/Hz @ 1 KHz offset < -100 dBc/Hz @ 10 KHz offset < -110 dBc/Hz @ 100 KHz offset
Antenna Port	Dual Ports, both SMA
Noise Figure	<10, typical. <12 @3GHz, < 15 @10 GHz
VSWR	2.0:1 max. typ.
IF Output Power in AGC	-20 dBm, nominal
Baseband Output Power in AGC	-20 dBm, nominal
Reference Frequency	Internal, or External, Auto switching
Power	12 Watts
Size	8" x 4" x2.5"
Weight	5.8 lbs
Control	USB, RS-232
Operational Temperature	-20 to +70 ⁰ C
Maximum RF Input Level	+15dBm

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