

High Performance RF Tuners and Digitizers

RF Tuners

MT-3001

Ultra-Miniature 3GHz RF Tuner (2.5W, 9cu in, 8oz low cost)

0.52" x 3" x 5.5"



30-3000MHz, tracking and fixed preselectors, 500 usec tuning, 12dB NF, -5dBm IP3, 70dB spurious rejection, 70MHz IF OUT conditioned for driving ADC's directly, 20MHz IF BW, RS- 232 Control, 9-16V at 2.5W. (High IP3 and 40MHz BW versions available)

MT-3002

Ultra-Miniature Dual Channel 3GHz RF Tuner (2.5W/ch. 14cu in, 12oz low cost)

0.82" x 3" x 5.5"



Two wideband tuners in a single miniature package! Phase coherent and independent modes (software selectable).

30-3000MHz, tracking and fixed pre-selectors, 500 usec tuning, 12dB NF, -5dBm IP3, 70dB spurious rejection, 70MHz IF OUT conditioned for driving ADC's directly, 20MHz IF BW, RS- 232 Control, 9-16V at 2.5W/ch. 80dB ch-ch isolation (High IP3 and 40MHz BW versions available!)

MT-3000

Miniature 3GHz RF Tuner (3.5W, 14cu in, low cost)

3.5" x 6.75" x 0.56"



30-3000MHz, tracking and fixed pre-selectors, 500 usec tuning, 12dB NF, +0dBm IP3, 70MHz IF OUT conditioned for driving ADC's directly, 25MHz IF BW, Sleep mode, RS- 232 Control, 9-16V at 3.5W, **Phase coherent LO option, Dual Channel Option**

Specifications subject to change without notice as we improve our products

For further information, contact: Midwest Microwave Solutions Inc, 2000 Progress Dr, Hiawatha, IA 52233

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Website www.mms-rf.com

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RF Tuners

MT-0660

Miniature 600MHz-6 GHz RF Tuner (14 cu in) extremely compact size!
3.5" x 6.75" x 0.56"



600-6000MHz, sub octave pre-selectors, 500 usec tuning, 13dB NF (6dB NF with selectable LNA) +5dBm IP3, 70MHz IF OUT, 30MHz IF BW, Sleep mode, RS-232 Control, 9-16V at 5.5W

Phase coherent LO option, Dual Channel Option

MT-6000

Ultra-Miniature 30MHz-6 GHz RF Tuner (14 cu in) extremely compact size!
3.5" x 6.75" x 0.56"



30MHz-6000MHz, sub octave pre-selectors, 500usec tuning, 13dB NF, +3dBm IP3, 70MHz IF OUT, 30MHz IF BW, Sleep mode, RS-232 Control, 9-16V at 5.5W

Phase coherent LO option, Dual Channel Option

MSDR-3000-PC

Miniature VHF/UHF RF Tuner with External Local Oscillator I/O's for Phase Coherent Applications
0.75" x 3" x 6"



30-3000MHz USB/RS-232 controlled Tuner with Master/Slave LO's, tracking and fixed filter preselector. 12dB NF, +5dBm IP3, 5MHz to 25MHz IF BW, 1kHz tuning, 500usec tuning speed, 80dB typical Image/IF rejection, 6.5W typical. DRS SI-8614 pin-out compatible and command similar

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RF Tuners

MSDR-1000

Miniature USB-powered VHF/UHF Tuner (4.6 cu in, 5 oz!)

0.375" x 2.7" x 4.7"



30-1000MHz, USB powered and controlled, tracking pre-selector, 1 kHz tuning, 10dB NF, 0dBm IP3, 70MHz IF OUT, 2-10MHz customer selectable BW, 1msec tuning speed, 80dB typical Image/IF rejection.

Frequency Extender

MFE-6000

Miniature 6GHz Frequency Extender (Extends tuning range of all M-3000 tuners/digitizers)

0.375" x 3" x 6"



30-6000MHz, 30-3000MHz bypass, 3000-6000MHz 5 band preselector, 500 usec tuning, 12dB noise figure, 3dB bypass loss, +5dBm IP3, seamless control from Mxxx-3000 tuners/digitizers, extremely compact size!

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High Performance RF Tuners and Digitizers

RF Digitizers

MSDD-3000-pps

Miniature VHF/UHF Digitizer with Precision Time Tagged Data Outputs

0.82" x 3" x 6"

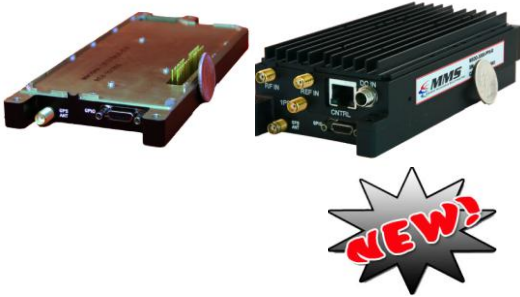


30-3000MHz, 9-16V, 1pps and 10MHz inputs, Time tagged data outputs, 10/100/1000 Ethernet controlled, Tracking and fixed filter preselector, 12dB NF, +5dBm IP3, 20MHz digitized IF BW, 14bit ADC, TMS320C6455 DSP, Altera Cyclone II FPGA, On-board DDR and Flash memory, <100Hz DDC tuning, 500usec tuning speed, 80dB typical Image/IF rejection, Externally flash-able DSP and FPGA, 12W typical (code dependent)

MSDD-3000 GPS

Miniature GPS Extender for MSDD-3000 PPS Digitizers

0.5" x 3" x 6"



GPS L1 C/A extender module installs on MSDD-3000 PPS digitizers. GPS signal acquisition to -145 dBm and tracking to -150 dBm. Time transfers within 20 nS of GPS receiver 1PPS output. Integral support for powering active antenna equipment. Selectable VITA49 context packet support for GPS data reporting. General purpose I/O and RS-232 interface for user defined applications or for external access to GPS receiver 1PPS and data. Optional integrated digital compass.

MSDD-0660

600MHz – 6GHz RF Digitizer with Phase Coherent LO's

3.75" x 6.75" x 1.25"



600-6000MHz, 9-16V, 10/100/1000 Ethernet controlled, Tracking and fixed filter preselector, 12dB NF, +5dBm IP3, 30MHz digitized IF BW, 1pps in, 14bit ADC, TMS320C6455 DSP (1200MHz), Altera Cyclone III FPGA, On-board DDR and Flash memory, <100Hz DDC tuning, 500usec tuning speed, 70dB typical Image/IF rejection, Externally flash-able DSP and FPGA, Selectable LNA, LO in/out

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High Performance RF Tuners and Digitizers

RF Digitizers

MSDD-0660-D

600MHz – 6GHz Dual Channel Phase Coherent RF Digitizer

3.75" x 6.75" x 1.75"



Dual Channel Tuner and Digitizer, 600-6000MHz, 9-16V, dual 1GB ports, streaming 30MHz baseband I/Q outputs, Tracking and fixed filter preselector, 12dB NF, +5dBm IP3, 30MHz digitized IF BW, dual 14bit ADC's, TMS320C6455 DSP (1200MHz), Altera Cyclone III FPGA, On-board DDR and Flash memory, <100Hz DDC tuning, 500usec tuning speed, 70dB typical Image/IF rejection, Externally flash-able DSP and FPGA, Selectable LNA

MSDD-6000(F)

Miniature VHF/UHF Digitizer with Precision Time Tagged Data Outputs + 6 GHz Frequency Extender (Extends tuning range of all M-3000 tuners/digitizers)

3" x 6" x 1.12"



30-6000MHz, 9-16V, 1pps and 10MHz inputs, Time tagged data outputs, 10/100/1000 Ethernet controlled, Tracking and fixed filter preselector, 14dB NF, +5dBm IP3, 20MHz digitized IF BW, 14bit ADC, TMS320C6455 DSP, Altera Cyclone II FPGA, On-board DDR and Flash memory, <100Hz DDC tuning, 500usec tuning speed, 80dB typical Image/IF rejection

MSDD-1000

Ultra-Miniature VHF/UHF Digitizer/Receiver (10 cu in, 8 oz, 5W RF Tuner/ DSP Platform!)

.75" x 2.7" x 4.7"



30-1000MHz, 9-16V, USB/RS232 controlled, Tracking Preselector, 10dB NF, 0dBm IP3, 5MHz digitized IF BW, 14bit ADC, TMS320C6424 DSP, Altera Cyclone III FPGA, On-board DDR and Flash memory, <10Hz DDC tuning, 1000usec tuning speed, 70dB typical Image/IF rejection, Externally flash-able DSP and FPGA, 5W typical (code dependent). Audio Phone Jack

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High Performance RF Tuners and Digitizers

RF Digitizers

MSDD-0660V

30MHz – 6GHz RF Digitizer with Phase Coherent LO's
3.75" x 6.75" x 1.25"



30-6000MHz, 9-16V, 10/100/1000 Ethernet controlled, Tracking and fixed filter preselector, 12dB NF, +5dBm IP3, 30MHz digitized IF BW, 1pps in, 14bit ADC, TMS320C6455 DSP (1200MHz), Altera Cyclone III FPGA, On-board DDR and Flash memory, <100Hz DDC tuning, 500usec tuning speed, 70dB typical Image/IF rejection, Externally flash-able DSP and FPGA, Selectable LNA, LO in/out

MSDD-0660V-D

30MHz – 6GHz Dual Channel Phase Coherent RF Digitizer
3.75" x 6.75" x 1.75"



Dual Channel Tuner and Digitizer, 30-6000MHz, 9-16V, dual 1GB ports, streaming 30MHz baseband I/Q outputs, Tracking and fixed filter preselector, 12dB NF, +5dBm IP3, 30MHz digitized IF BW, dual 14bit ADC's, TMS320C6455 DSP (1200MHz), Altera Cyclone III FPGA, On-board DDR and Flash memory, <100Hz DDC tuning, 500usec tuning speed, 70dB typical Image/IF rejection, Externally flash-able DSP and FPGA, Selectable LNA

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RF Digitizers

MSDD-3000-cPCI

3U single slot compact PCI RF Digitizer



The MSDD-3000-pps combines the latest state-of-the-art integrated circuit receiver technology with a 32 bit, high performance DSP to produce a miniature software defined digitizer with excellent linear RF performance and extraordinarily low size, weight, and power. Intended for precision FDOA/TDOA geo-location applications as well as software-defined radio (SDR) applications, the MSDD-3000's open architecture with reconfigurable "flash via webpage" is an ideal choice for user programmable spectral analysis, multi-mode demodulation, and multi-channel down-conversion, as well as general purpose signal processing.

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