MMDS Dipole Integrated Downconverters

LOMA SCIENTIFIC INTERNATIONAL block-down-converters may be ordered to operate at standard or custom frequencies. For instance, a converter ordered for standard MMDS (2500-2686MHz) input frequencies is available from stock with an LO of 2278 or 1838MHz. We have supplied and welcome inquiries for custom converters with input frequencies from 2100 to 3600MHz or higher. Converters are available in two versions. Converters may be ordered with an integrated dipole (for mounting directly to an antenna reflector) or as a standalone unit for use with any type of antenna. Medium and high gain options facilitate maximum signal distribution at least possible cost.

Some converters can accommodate an addressable on-off feature for a premium. All converters are designed for the linearity demands of both digital and analog service. Optional filters can be added, if necessary, to suppress unwanted interfering signals in the local marketplace. Please indicate any custom features, specifications and options desired at time of order.

Model 2278

3115 KASHIWA STREET
TORRANCE, CA. 90505
USA

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LOMA SCIENTIFIC
INTERNATIONAL

MMDS LOW NOISE DOWNCONVERTER
MODEL 2278

RF SPECIFICATIONS

RF Frequency	2500 to 2686MHz *
IF Frequency	222 to 408MHz *
LO Frequency	2278MHz +/-25 KHz *
Noise Figure	2.5dB, Maximum
Gain	32dB +/-2dB
Gain Flatness	+/-1.5dB, 0.25dB/6MHz
LO Leakage @ IF Port	-50dBm
@ RF Port	-70dBm
Phase Noise	-65dBc/Hz @ 1KHz
	-93dBc/Hz @ 10KHz
	-100dBc/Hz @ 100KHz
Image Rejection	40dB
IF Rejection	-80dBc
IMD (2 Tone Test)	-45dBc, Two Equal Tones at -30 dBm at Input
Third Order Intercept Point	+24dBm Minimum @ Output
RF Input Level, Maximum	
Single Channel	-20dBm (safety level)
31 Channel, Each	-35dBm (safety level)
RF Output Level, Maximum	
Single Channel	+60dBmv (to preserve IMD)
31 Channel, Each	+30dBmv (to preserve IMD)

MECHANICAL SPECIFICATIONS

Input Structure	Integrated Dipole
Output Connector	“F” Type Female, 75 Ohms
DC Supply Voltage	+13 to +25VDC Through Output Connector
Current	220mA Max.
Operating Temperature	-40C to +60C
Finish	Gold Alodine

* Other Frequencies available on request

Specifications subject to change without notice.

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LOMA SCIENTIFIC
INTERNATIONAL

LOMA SCIENTIFIC INTERNATIONAL reveive antenna reflectors have demonstrated exceptional performance in worldwide use for many decades. Several types of metallic finishes (galvanized, gold/zinc Irridite, etc) are available at time of order. In severe environments (coastal areas with high salt spray, extreme moisture, etc) the hot-dipped-galvanized option should be considered. This finish will perform faithfully in the most severe environments.

ANTENNA REFLECTORS FOR (ITFS-MMDS) 2500-2686 MHz

FEATURES

- Polarization - Horizontal or Vertical
- Dual Mode - 45° Mounting
- Lowest Wind Loading
- Electronically Welded, Pressure Tested Dipole
- An optional Passive Dipole Feed Assembly
  Includes RG8 Cable with N Connector to
  Attach a Standalone Type Block-down-converter
- Compatible with all Down-converters
- Corrosion Protection: Zinc and Gold Irridite
  Standard, Hot-dipped-galvanized Available
  at Additional Cost.

SPECIFICATIONS

Gain	24 dBi *
Front to Back ratio	20 dB
Impedance	50 Ohms
Beam Width	20 degrees
Wind Load	7.2 lbs./sq. ft.

*Other gains from 11dBi to 31dBi are available upon request using low cost assemblies.

POWER SUPPLY WITH POWER INSERTER

VOLTAGE (VAC)	CURRENT (milliamps)
110/220	220
127	350
220	300

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