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.

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 - 030
MMDS LOW NOISE DOWNCONVERTER
MODEL 2278 - 030

RF SPECIFICATIONS
- RF Frequency: 2500 to 2686MHz *
- IF Frequency: 222 to 408MHz *
- LO Frequency: 2278MHz +/-15 KHz *
- Noise Figure: 1.7dB
- Gain: 30dB +/-3dB
- Gain Flatness: +/-3dB, 0.5dB/6MHz
- LO Leakage @ IF Port: -50dBm
- @ RF Port: -70dBm
- Phase Noise: -93dBc/Hz @ 10KHz
- PCS Rejection (1930~1990MHz): 90dB (40dB is pre-LNA)
- IF Rejection: -80dBc
- IMD (2 Tone Test): -50dBc
- Third Order Intercept Point: +24dBm Minimum @ Output
- RF Output Level, Maximum: 31 Channel, Each +35dBmV

MECHANICAL SPECIFICATIONS
- Input Structure: Integrated Dipole
- Output Connector: "F" Type Female, 75 Ohms
- DC Supply Voltage: +16 to +24 VDC Through Output Connector
- Current: 235mA Max.
- Operating Temperature: -40C to +65C
- Finish: Chem Film Conversion
- MIL-C-5541, Class 3, Clear

* Other frequencies available on request.

Specifications subject to change without notice.
LOMA SCIENTIFIC INTERNATIONAL receive antenna reflectors have demonstrated exceptional performance in worldwide use for many decades. Several types of metallic finishes are available at time of order. In severe environments (coastal areas with high salt spray, extreme moisture, etc) the powder coat paint 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
♦ 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 or other Products such as Tranceivers
♦ Corrosion Protection: Powder Coat Paint, Gray

SPECIFICATIONS
Gain 21 +/- 1dBi *
Front to Back ratio 18 dB
Impedance 50 Ohms
Beam Width 12.5 +/- 1.5 degrees
Wind Load 7.2 lbs./sq. ft.

* Other gains are available upon request using low cost assemblies.

POWER SUPPLY WITH POWER INserter LSI-TESA

Input Voltage, Universal AC 100/240VAC
Input Frequency 50/60Hz
Output Voltage +18VDC @ 350mA

Specifications subject to change without notice.