L Band Optical Transmitter and Receiver Data Sheet

Model numbers: MXDS-26S L-Band Optical Transmitter

MXRS-26S L-Band Optical Receiver





PRODUCT FEATURES

- 950-2600MHz operating bandwidth, transmitting all L Band analog and digital satellite signals, including satellite GPS signals
- Excellent P/P ratio
- Simplicity with Performance

MAIN APPLICATION

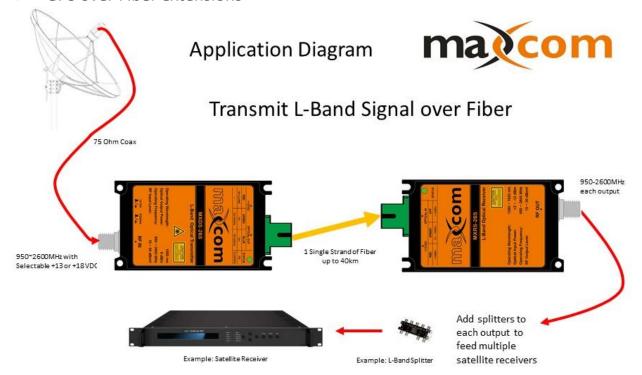
- Satellite L Band fiber distribution system
- Satellite L Band fiber link
- GPS over Fiber extensions





Transmitter

Receiver



Model numbers: MXDS-26S L-Band Optical Transmitter

MXRS-26S L-Band Optical Receiver

Common optical link data:

Standard transmitter units come with +4 dBm optical output @ 1550nm wavelength. Standard receivers accept an optical input of +2 ~ -12 dBm This combination of transmitter and receiver will support distances of 40km (25 miles)

Operational Instructions

Several LNB types require voltage and/or signaling. The transmitter provides options as may be required for the desired results or control. Note that there are two push buttons to the left of the input RF connector. The button sequences determine the following modes:

'A' button - 'Out' position = 0 Hz (no tone) 'A' button - 'In' position = 22KHz tone 'B' button - 'Out' position = 13 Volts DC 'B' button - 'In' position = 18 Volts DC

TX SPECIFICATIONS:

OUTPUT POWER: +4 DBM, WAVELENGTH: 1550NM
FREQUENCY RANGE 950~2600 MHz
RF INPUT LEVEL: 10~30 DBMV
SIDE MODE SUPPRESSION RATION: -1 ~ 0 DB
OPTICAL ISOLATION: MIN. 30 DB
EXTINCTION RATIO: MIN. 8.2 DB
RETURN LOSS: MIN. 50 DB
RF: CNR >28, CTB <-36, CSO<-36 DB
LNB SUPPLY VOLTAGE: 13/18V, 300 MA CURRENT,
90~220VAC TO 12 VDC EXT PS
CONNECTORS: OPTICAL SC/APC, RF: 750HM F

RX SPECIFICATIONS:

RECEIVING INPUT POWER: +2 ~ -12 DBM

WAVELENGTH: 1260NM ~ 1620NM

FREQUENCY RANGE 950~2600 MHz

RF OUTPUT LEVEL: 10~30 DBMV

FLATNESS: -1 ~ +1 DB

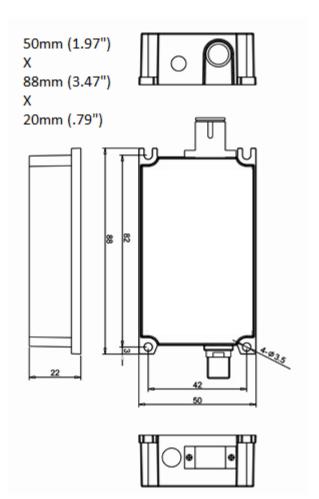
OUTPUT RETURN LOSS: MIN. 12 DB

CHANNEL LOADING TYPICAL 36 CH QPSK

IF: IM3 >-65, HUM >-60, IP1>18 DBM

90~220VAC TO 12 VDC EXT PS

CONNECTORS: OPTICAL SC/APC, RF: 750HM F





Supplemental GPS Application Diagram

