

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
- Excellent P/P ratio
- Simplicity with Performance

MAIN APPLICATION

- Satellite L Band fiber distribution system
- Satellite L Band fiber link



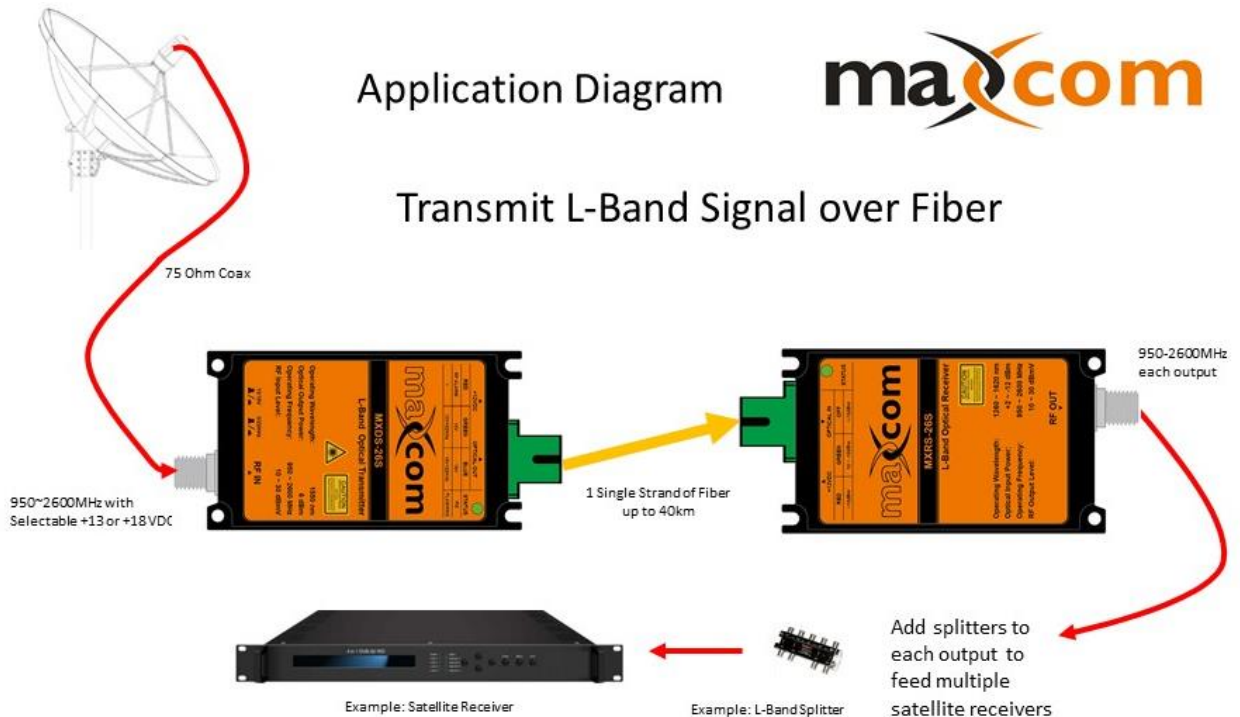
Transmitter

Receiver

Application Diagram



Transmit L-Band Signal over Fiber



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: 75OHM 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: 75OHM F

50mm (1.97")

X

88mm (3.47")

X

20mm (.79")

