

# Blonder Tongue MIBT-S3A-810A 110Ch Fiber Optic Transmitter Single mode DFB laser

- RF
  - Operating Wavelength
    - 1310 nm
  - Required Fiber Bandwidth
    - 1,000 Min. MHz
  - Input Return Loss
    - $\geq 16$  dB @ 75  $\Omega$
  - Back Reflection
    - -50 min. dB
  - Optical Output Power
    - +10 dBm
  - Bandwidth
    - 45 to 860 MHz
  - RF Input Level (110 Ch. Load)
    - + 18 dBmV/Ch
  - CNR (-1 dBm Input, 77 Ch. Load + QAM 550-860 MHz @ -6dB Ref. Analog)
    - $\geq 52$  dB
  - Composite Triple Beat - CTB
    - = 69 dB
  - Composite Second Order - CSO
    - = -63 dB
  - Side Mode Suppression Ratio (SMSR)
    - 30 dB
- Mechanical
  - Weight
    - FIBT
      - 6 lbs., 2.72 kg
    - MIBT
      - 1.21 lbs, 0.54 kg
  - Physical Dimensions (W x H x D)
    - FIBT
      - 19 x 1.75. x 8.25 in. 482.6 x 44.5 x 209.55 mm
    - MIBT
      - 2.19 x 3.5 x 8.25 in. 55.6 x 88.9 x 209.55 mm
  - Operating Temperature Range
    - 0 to +45 °C
- Power
  - Power Supply Voltage
    - 110/220 VAC
  - Power Supply Frequency
    - 50/60 Hz
  - Power Dissipation
    - 25 W
  - MIBT
    - Requires MIPS-12C Power Supply
- Connectors
  - RF Input
    - "F" Female
  - Optical Output
    - FC/APC
- Indicators
  - Power
    - LED, Green
  - Cooler Status
    - LED, Bi-colored Green/Red

- RF Input Level
  - LED, Tri-colored Green/Yellow/Red
- Laser Status
  - LED, Bi-colored Green/Red
- Notes
  - Link Gain Specifications Valid When Used with FRDA Receiver Module