

## Trasmittitore ottico DTT *DTT optical transmitter*

art. 19-006A  
**FO-TX DTT 10 dBm**

### Micro Optical Transmitter User's Manual



Invisible infrared light is mostly used in optical communication system nowadays, thus it is absolutely forbidden to direct exposure to beam. Otherwise, it would cause damage to retina or cause blindness at worst.



#### Features:

1. Designed for FTTH(Fiber To The Home) networks
2. Excellent linearity and flatness
3. Single-mode fiber high return loss
4. Using GaAs amplifier active devices
5. Ultra low noise technology
6. Using mini DFB laser in coaxial packing
7. Smaller size and easier installation
8. Red-LED for power indication
9. OTH-1013-3mW is 1310nm wavelength, 3mW optical power output.  
OTH-1013-10mW is 1310nm wavelength, 10mW optical power output.  
OTH-1015-3mW is 1550nm wavelength, 3mW optical power output.  
OTH-1015-10mW is 1550nm wavelength, 10mW optical power output.



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### Specifications:

| Item                      | Description           |
|---------------------------|-----------------------|
| Customer Interface        |                       |
| RF Connector              | F-female              |
| Optical Connector         | SC/APC                |
| Power Supply              | F-female              |
| Optical Parameter         |                       |
| Optical Return Loss       | $\geq 45$ dB          |
| Output Optical Wavelength | 1310 or 1550 nm       |
| Output Optical Power      | 3 or 10 mW            |
| Optical Fiber Type        | Single Mode           |
| RF Parameter              |                       |
| Frequency Range           | 47-1000 MHz           |
| Flatness                  | $\pm 0.75$ dB         |
| RF Input Level            | $80 \pm 5$ dB $\mu$ V |
| Input Impedance           | 75 $\Omega$           |
| Return Loss               | $\geq 16$ dB          |
| CNR                       | $\geq 52$ dB          |
| CSO                       | $\geq 60$ dB          |
| CTB                       | $\geq 63$ dB          |
| Other Parameter           |                       |
| Power Supply              | 12 VDC                |
| Power Consumption         | <2 W                  |
| Dimensions                | 100*98*28 mm          |

### The Package Includes:

1. optical transmitter X 1

2. 12V DC Power Supply X 1

3. User's Manual X1

