

# OT1550

## Description

External modulation optical transmitter 1550±5nm,  
DFB laser, 2 ports output, output optical power≥7mW,  
47-862MHz, SBS, 13/16/18dBm or adjustable,  
imperial F type female port, FC/APC or SC/APC  
connector, with SNMP, RJ45 and RS232, VFD, 19"  
1U standard framework, AC220V, power cord with  
EURO (2 pole with GND) or USA standard plug (3 pole).



## Feature

- ◆ External modulation, High quality DFB and LiNbO<sub>3</sub> .
- ◆ Microprocessor automatic control circuit.
- ◆ Pre-distortion circuit.
- ◆ Low noise, high power and excellent reliability.
- ◆ Output optical power 1 x 10mW.
- ◆ SBS 13/16/18 dBm, adjustable.
- ◆ VFD, 19" 1U standard framework, RS-485 and RS-232 port.

## Specification

| Item                     | Unit | Specification                   |
|--------------------------|------|---------------------------------|
| <b>Optical Parameter</b> |      |                                 |
| Optical Wavelength       | nm   | 1550±5                          |
| Modulation Mode          |      | External Modulation             |
| Modulation Depth         |      | 3%±0.25                         |
| Output Power             | mW   | ≥7                              |
| SBS Threshold            | dBm  | 13/16/18, adjustable            |
| <b>RF Parameter</b>      |      |                                 |
| Frequency Range          | MHz  | 47~862                          |
| Input Power Level        | dBuV | 75~85                           |
| Passband Flatness        | dB   | ±0.75                           |
| Return Loss              | dB   | ≥16(47-550MHz); ≥14(550-862MHz) |
| Input Impedance          | Ω    | 75                              |
| <b>System Parameter</b>  |      |                                 |
| C/CTB                    | dB   | ≥65(59 channels PAL-D)          |

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|                       |    |                           |
|-----------------------|----|---------------------------|
| C/CSO                 | dB | ≥65(59 channels PAL-D)    |
| C/N                   | dB | ≥53(59 channels PAL-D)    |
| General               |    |                           |
| Connectors            |    | FC/APC or SC/APC, F femal |
| Power Supply          | V  | 160~250                   |
| Power consumption     | W  | 30                        |
| Operating Temperature | °C | 0 ~ +45                   |
| Storage Temperature   | °C | -20 ~ +65                 |
| Relative Humidity     | %  | max.95(no condensation)   |
| Dimension             | mm | 483(W)*381(L)*45(H)       |
| Weight                | Kg | 3.3                       |

## Application

- ◆ HFC network