

## BOTX "Z" SERIES FORWARD OPTICAL TRANSMITTER 1550nm



**TECHNICAL SHEET** 

## 1.0 PRODUCT DESCRIPTION

The Z Series is our 1550nm externally modulated optical transmitter. It adopts high efficiency modulation mode for RF carrier.

The 1550nm externally modulated technology has the benefit of no laser chirp, low dispersion distortion, and large extinction ratio, with excellent characteristic within 40~862MHz. External Modulator does not generate CSO distortion after reasonable bias. The Z series 1550Tx can be the backbone of any P2P application or FTTx network deployment.

## 2.0 Features and benefits

- The operating bandwidth is up to 45~870MHz.
- \* High performance: Externally modulated technology, no laser chirp, low dispersion distortion, high extinction ratio, with excellent characteristic within 40~862MHz.
- Narrow bandwidth (0.65MHz), lower noise, DFB continuous wave laser, is propitious to reduce the influence of the dispersion.
- CNR ≥ 53dB and excellent CTB, CSO index.
- SBS: 13~18dBm adjustable.
- ITU standard wavelength, ±200GHz (±1.6nm) adjustable.
- AGC/MGC mode is optional at spot. OMI can be optimized at spot.
- Perfect RS232 communication interface.
- Advanced SNMP network management function (option).
- 1+1 power supply backup, switch automatically.
- Casing temperature auto-control.
- Excellent P/P ratio.

## 3.0 TECHNICAL INDEX

Index Supplement

**Specifications** 

Performance

Optic Operating (nm) 1548~1563

feature wavelength

ITU-TG.692 HT8500HU

Wavelength (nm)  $\pm 1.6$ 

(±200GHz) ADJ. range

Wavelength ADJ. ±0.05nm stepping

mode

 $FWHM(\Delta\lambda)$  (-Linewidth (MHz) Typ. = 0.65

3dB fullwidth)

Side mode (dB) ≥45 **SMSR** 

suppression

ratio

Equivalent (dB/Hz) ≤-160 RIN

noise intensity  $(20 \sim 1000 MHz)$ 

Output power (dBm)  $2 \times 7$ Optional 2×5,

 $2\times6$ ,  $2\times9$ ,

2×10

Return loss (dB) ≥50

Optional LC/APC, SC/APC Optical fiber

FC/APC connector

RF feature Work (MHz) 47-862

bandwidth

47~1000 HT8500H-100 47~1080 HT8500H-108

(dBmV) AGC Input level 18~28

≤±0.75 47~862MHz Flatness (dB)

≤±1.5 47~1000MHz

Return loss (dB) >16 47~750MHz

Input impedance  $(\Omega)$ 

F-Female RF port

Link feature Transmit PAL-D/60CH PAL-D/99CH

channel

Copyright - Broadstar 2006

75