



# FODII-1310TX

## 1310nm Forward Path Transmitter



### Optical Specifications

Laser type	Cooled DFB LD with isolator
Optical wavelength	1310nm $\pm$ 20nm
Laser RIN noise density	$\leq$ -155 dB/Hz
Laser output power	10mW

### RF Specifications

Operating bandwidth	45M ~ 1GHz
Flatness	$\pm$ 0.75dB
RF Input impedance	75 $\Omega$ / unbalanced
Channel loading	45 to 550MHz for 77 ch NTSC
RF input level range	15dBmV/ch to 25dBmV/ch for NTSC77 channel loading plan
RF input return loss	$\geq$ 16dB
Test point	-20 $\pm$ 1dB / reference to the RF input level

### Link Performance

CSO	$\leq$ -64dBc
CTB	$\leq$ -68dBc
XM	$\leq$ -65dBc
CNR	> 51dB
	> 52dB(room temp.)
(test conditions: 77 channels NTSC, 4MHz BW)	
CNR	> 52dB
	> 52dB(room temp.)

(test conditions: 66 channels PAL, 5MHz BW)

Note : 12.5KM SMF +passive loss and 0dBm received optical power.

1. NTSC format 77 channels, modulation index 3.7% per channel, receiver noise 8pA/ $\sqrt$ Hz., optical responsivity  $\geq$  0.85A/W.
2. PAL format 60 channels, modulation index 4.5% per channel, receiver noise 8pA/ $\sqrt$ Hz., optical responsivity  $\geq$  0.85A/W. 0.85A/W.



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### General Specifications

Supply voltage	+24 VDC
Supply current	<1A
Power consumption	19 ~ 25 (Max) W
< Th max. temperature of whole platform is 50°C when power consumption at 25W(max) >	
Operating temperature	0 to 50°C
Storage temperature	-20 to 60°C
Relative humidity	85% ( Max )
Dimension	30.5W x 415.3D x 130H mm

### Ordering Information

FODII-1310TX-  -   -  -

**A** : NTSC 77CHs  
**B** : PAL 60CHs

**Optical Power**  
04 : 4mW  
06: 6mW  
08: 8mW  
10: 10mW  
13: 13mw  
16: 16mW  
20: 20mW

**Operating Bandwidth**  
W: 45M to 1GHz

**Connector**  
SC: SC/APC with shutter  
FC : FC/APC