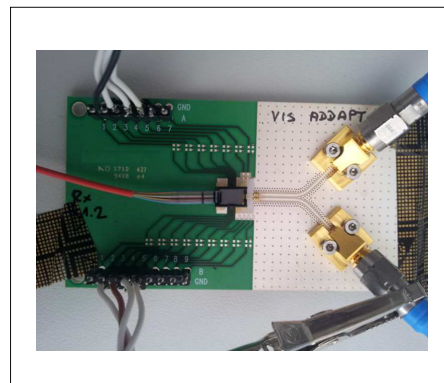


Up to 56 Gbit/s NRZ 700-870 nm Single channel optical receiver



Sample image only. Actual product may vary.

Product Code: R56-850TB

Preliminary

Product Description

The R56-850TB optical receiver module utilizes a PIN photodetector and limiting transimpedance amplifier (TIA) assembled onto a high speed adaptor board with differential electrical signal output. The multi mode fiber coupled module with FC/PC connector input is designed for short reach ultrahigh-speed data communication applications of up to 56Gbit/s using NRZ modulation. Each part is electro-optically tested to ensure a maximum performance

Features

- up to 56 Gbit/s data rate
- 50/125 um fiber coupled testboard
- 1.85 mm electrical RF connectors
- FC/PC optical connector

Applications

- CEI-56G-NRZ (XSR/USR/MR/LR)
- Proprietary optical interconnects
- Research and development

Parameter	Typical (PD chips)	Notes
Operating Wavelength	700 ~ 870 nm	
Data rate	up to 56 Gbit/s	NRZ modulation
Rise time (20% to 80%)	~ 6 ps	
Maximum power consumption	280 mW	

Electro-optical characteristics (at T_{case} = 25 °C)

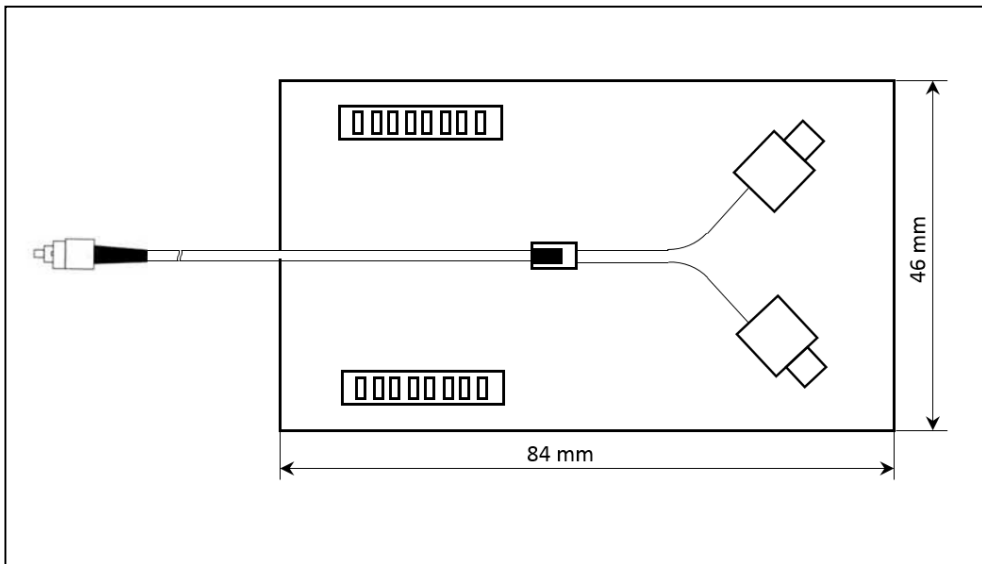
Preliminary

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Wavelength responsivity	λ		700	850	890	nm
Case operating temperature	T _{op}		-10		85	°C
Supply voltage	V _{cc}		3.3		3.4	V
Supply current	I _{cc}		34	45	61	mA
Bandwidth	BW			50		GHz
Low frequency cutoff					70	kHz
Sensitivity (OMA)	S			-13	-12	dBm
Output resistance	R _o			100		Ω
Optical overload			1.5			dBm
Differential output voltage	V _{out}				280	mV
Duty cycle distortion				1	10	%

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Storage temperature	T _{st}	-10	+50	°C
Incident optical power	P _{in}		+5	dBm
Power supply voltage	V _p		4.0	V

Dimensions



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