

PRODUCTS SPECIFICATION

DESCRIPTION : Optolock POF Transceiver
Module for Ethernet

CUSTOMER :

COMOSS P/N :

Date of Issue : June/05/2007

Version : 1.0

Designer : Miles

Approval



Customer Signature



COMOSS ELECTRONIC CO., LTD.

4F, No.11, CHUNG-HSIN ST., SHULIN 238, TAIWAN, R.O.C.

TEL: 886-2-2688-2498

FAX: 886-2-2689-9160

Http:// www.comoss.com

E-mail: Sales@comoss.com.tw

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Subject: Product Specification – Optolock POF Transceiver Module

1.0 General
This specification describes the optical, mechanical and environmental characteristics of Optolock POF Transceiver Module. All performances are designed for complying with SMI specification.

2.0 Series Description
OLKDX series:
Please review the detail order information at COMOSS website.

3.0 Application
(1) Data rate: 100Mbps
(2) Ambient Temperature Range: -25 to +70 °C

4.0 Overall Dimensions
See attachment

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6.0 Mechanical Performance

Item	Description	Testing Method and Condition	Characteristic and Measuring Method	Requirements
6-1	Visual and Mechanical Inspection	TIA/ EIA-455-13A		Appearance: No damage

7.0 Environmental Performance

7-1	Resistance to Vibration	TIA/ EIA-455-11B 10-55-10 Hz/ min. Amplitude: 1.5mm P-P 3 axes, 24cycles POF length: 7±0.1m Mated and energized	None	
	None		Transmitter: Output Power IEC61280-1-1	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –8dBm Min. 2. Appearance: No damage
			Receiver: Responsivity or Sensitivity IEC61280-2-4	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –21dBm Min. 2. Appearance: No damage
7-2	Resistance to Shock	TIA/ EIA-455-14A Condition C 100G, 3axes, 3 times POF length: 7±0.1m Mated and energized	None	
	None		Transmitter: Output Power IEC61280-1-1	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –8dBm Min. 2. Appearance: No damage
			Receiver: Responsivity or Sensitivity IEC61280-2-4	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –21dBm Min. 2. Appearance: No damage

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Description		Testing Method and condition	Characteristic and Measuring Method	Requirements
7-3	Temperature Cycle	TIA/ EIA-455-3A -25 °C to 70 °C 30min. 10 cycles POF length: 7±0.1m Mated and energized	Transmitter: Output Power IEC61280-1-1	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –8dBm Min. 2. Appearance: No damage
			Receiver: Responsivity or Sensitivity IEC61280-2-4	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –21dBm Min. 2. Appearance: No damage
	None		Transmitter: Output Power IEC61280-1-1	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –8dBm Min. 2. Appearance: No damage
			Receiver: Responsivity or Sensitivity IEC61280-2-4	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –21dBm Min. 2. Appearance: No damage
7-4	Moisture Resistance	TIA/ EIA-455-5B -10 °C to 65 °C RH: 90% 10 cycles POF length: 7±0.1m Mated and energized	None	
	None		Transmitter: Output Power IEC61280-1-1	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –8dBm Min. 2. Appearance: No damage
			Receiver: Responsivity or Sensitivity IEC61280-2-4	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –21dBm Min. 2. Appearance: No damage

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Description		Testing Method and condition	Characteristic and Measuring Method	Requirements
7-5	Resistance to Dry Heat	TIA/ EIA-455-4B 70 °C, 240hr POF length: 7±0.1m Mated and energized	None	
	None		Transmitter: Output Power IEC61280-1-1	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –8dBm Min. 2. Appearance: No damage
			Receiver: Responsivity or Sensitivity IEC61280-2-4	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –21dBm Min. 2. Appearance: No damage
7-6	Resistance to Cold	TIA/ EIA-455-188 -25 °C, 240hr POF length: 7±0.1m Mated and energized	None	
	None		Transmitter: Output Power IEC61280-1-1	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –8dBm Min. 2. Appearance: No damage
			Receiver: Responsivity or Sensitivity IEC61280-2-4	FOT Only: 1. Max. change of ±3.5dB from initial measured value and –21dBm Min. 2. Appearance: No damage

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Testing Method and condition	Characteristic and Measuring Method	Requirements		
8.0 Solderability				
8-1	Solderability	Solder time: 3 ± 0.5 Sec. Solder temperature: 245 ± 5 °C		75% minimum
8-2	Resistance to soldering Heat	Immerse samples into solder to 1.2mm from the datum line for 5 ± 0.5s. After 30s (interval), immerse samples into solder for 3 ± 0.5s. Solder temperature: 260 ± 5 °C		Appearance: No damage