



# 155Mbps SFP Optical Transceiver, 2km Reach

**GOXS-1303-02D**

## Product Features:

- ✦ Up to 155Mbps data-rate
- ✦ 1310nm FP laser and PIN photo detector for 2km transmission with MMF
- ✦ Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- ✦ Digital Diagnostic Monitoring: Internal Calibration or External Calibration
- ✦ Compatible with RoHS
- ✦ +3.3V single power supply
- ✦ Operating case temperature: Standard : 0 to +70°C Industrial : -40 to +85°C

## Specifications:

### Transmitter

Parameter	Symbol	Min	Typical	Max	Unit
Centre Wavelength	$\lambda_c$	1260	1310	1360	nm
Spectral Width (RMS)	$\Delta\lambda$			4	nm
Average Output Power	P <sub>out</sub>	-18		-13	dBm
Extinction Ratio	ER	9			dB
Data Input Swing Differential	tr/tf	400		1800	mV
Input Differential Impedance	V <sub>IN</sub>	90	100	110	$\Omega$
TX Disable	Disable	ZIN	2.0	V <sub>cc</sub>	V
	Enable		0	0.8	V
TX Fault	Fault		2.0	V <sub>cc</sub>	V
	Normal		0	0.8	V

### Receiver

Parameter	Symbol	Min	Typical	Max	Unit
Centre Wavelength	$\lambda_c$	1260		1580	nm
Receiver Sensitivity				-32	dBm
Receiver Overload		-3			dBm
LOS De-Assert	LoSD			-33	dBm
LOS Assert	LoSA	-45			dBm
LOS Hysteresis		1		4	dB
Data Output Swing Differential	V <sub>out</sub>	370		1800	mV
LOS	High	2.0		V <sub>cc</sub>	V
	Low			0.8	V