

Transmitter E-O Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Support data rate	-	1	1.25	1.35	Gb/s	-
Center Wavelength	λ	830	850	860	nm	
Spectral Width (RMS)	$\Delta\lambda$	-	-	0.85	nm	
Average Optical Output Power	P _o	-9.5	-	-3.5	dBm	1
Extinction Ratio	Er	9	-	-	dB	
Output Eye Diagram	Compliant with IEEE 802.3					
Optical Rise/Fall Time (20%~80%)	tr/ta			0.26	ns	
Data Input Swing Differential	V _{IN}	400		1800	mV	2
Input Differential Impedance	Z _{IN}	90	100	110	Ω	
TX Disable	Disable	2.0		V _{CC}	V	
	Enable	0		0.8	V	
TX Fault	Fault	2.0		V _{CC}	V	
	Normal	0		0.8	V	

1. The optical power is launched into MMF.
2. PECL input, internally AC-coupled and terminated

Receiver O-E Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Note
Support data rate	-	1	1.25	1.35	Gb/s	-
Operating Wavelength	λ	770	-	860	nm	3
Receiver sensitivity	S _{en}	-	-	-18	dBm	3
Saturation	P _{sat}	0	-	-	dBm	
LOS Assert	LOS _A	-35			dBm	
LOS Deassert	LOS _D			-18	dBm	
LOS Hysteresis		1		4	dB	
Data Output Swing Differential	V _{OUT}	400		1800	mV	4
LOS	High	2.0		V _{CC}	V	
	Low	0		0.8	V	

3. Measured with a PRBS 2⁷-1 test pattern @ 1250Mbps, BER $\leq 1 \times 10^{-12}$
4. Internally AC-coupled

Ordering Information

Part Number	ROHS Compliant	Operating Case Temperature
ASX0P0x-0850	ROHS-6	0°C ~ +70°C
ASX0P2x-0850		-40°C ~ +85°C

x = J for Juniper
x = C for Cisco
x = A for Alcatel
x = O for Cisco ONS



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