

6Gb/s 15km SFP+ 1310nm Transceivers



The RTX228-618 6Gigabit 1310nm DFB Transceiver is designed to transmit and receive serial optical data links up from 2.1 Gb/s to 6.25 Gb/s data rate over singlemode fiber. The Transceiver is compliant with 2/4GFC, CPRI and applicable portions of SFF-8431. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472.

Features

- Link lengths at 6Gbps 15Km with DFB 1310nm
- LC duplex connector
- Low power consumption <1.2W
- -40 to 85 operating wide temperature range
- Single +3.3V±5% power supply
- Digital Monitoring SFF-8472 compliant

Applications

- Wireless and cellular base station system interconnect:
OBSAI rates 6.144Gb/s, 3.072 Gb/s
CPRI rates 4.9152 Gb/s, 2.4576 Gb/s
- 2/4GFC Data Storage Channel

Standards

- SFF-8431 Rev 3
- SFF-8432 Rev5
- SFF-8472 Rev 10

Ordering Information

Specifications

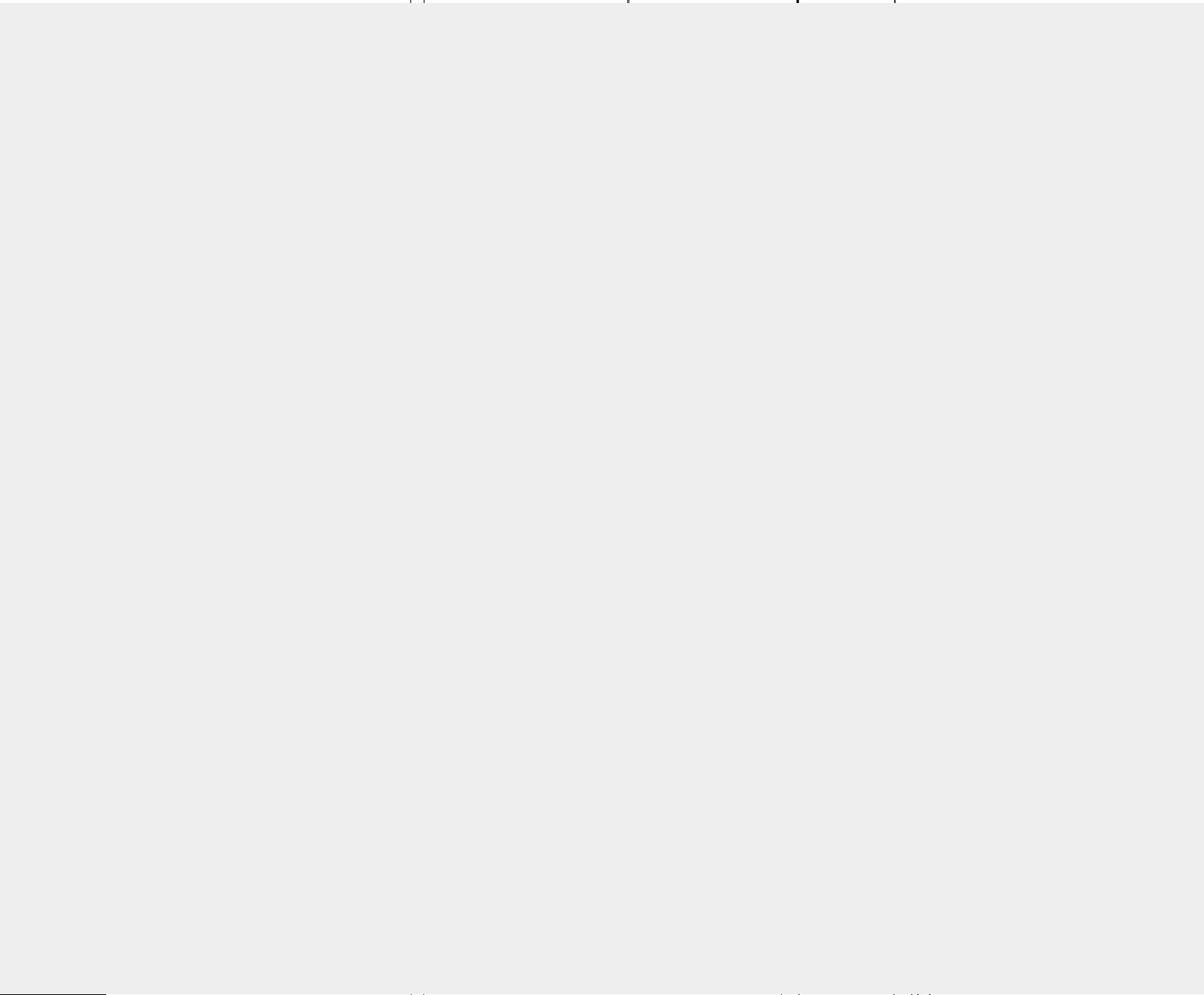
(tested under recommended operating conditions, unless otherwise noted)

Parameter	Symbol	Unit	Min	Typ	Max	Note
Transmitter						
Nominal Wavelength		nm	1260	1310	1360	
Side Mode Suppression Ratio	SMSR	dB	30			
Spectral Width		nm			1	
Optical Output Power	P _{av}	dBm	-5.2		+0.5	
Average launch power of OFF transmitter	P _{OFF}	dBm			-35	
Extinction Ratio	ER	dB	3.5			
Relative Intensity Noise	R _{IN}	dB/Hz			-128	
Optical Return Loss Tolerance	ORLT	dB			12	
Receiver						
Center Wavelength	c	nm	1260		1610	
Receiver Sensitivity	R _{SENSE}	dBm			-14.4	1
Receiver overload		dBm	+0.5			1
Receiver Reflectance	R _{REFL}	dB			-12	
Assert LOS	LOS _A	dBm	-30			
De-Assert LOS	LOS _D	dBm			-15	
LOS Hysteresis		dB	0.5			

Note 1:

Part No.	Specifications		Application
	(Gb/s)	Optical Power (dBm)	
	2.125	5.2 ~+0.5	
	~6.25		

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