DATA SHEET

Transceivers
10G SFP+ CWDM ER
CSS-869A15

Properties

- Multi-protocol support
- Data rate 9.8...11.3 Gbps
- Reach up to 40km
- Any ITU CWDM channel between 1471nm and 1611nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range -40 ... 85°C
- Link budget at least 15 dB (w/o dispersion penalty)
- Built-in dual CDR



General data	
Form factor	SFP+
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	10G Ethernet, 10G FC, STM-64, CPRI 7,8
Data rate standards	10GBASE-ER/EW
	CPRI Option 7, 8
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
CDR	Double
Operation temperature	-40 °C ... 85 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 490 mA
Power consumption	< 1.6 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.5 V ... 4 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

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Transmitter Specifications	
Laser Type	EML
Grid	CWDM 20nm
Available Wavelength in nm	Any ITU CWDM channel between 1471nm and 1611nm
Channel Spacing	20 nm
Average launch power per lane	-1 dBm ... 3 dBm
Dispersion Penalty	< 2 dB
Dispersion range	-400 ps/nm ... 800ps/nm
Extinction Ratio	> 8.2 dB
Side Mode Suppression	> 30 dB
Supported Data rate	1.0625 Gbps ... 11.3 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> 0 dBm
Receiver Sensitivity	< -16 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -17 dBm
Receiver LOS Assert	> -30 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	9.8 Gbps ... 11.3 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSS-869A15xxxx-ww	"xxxx" is an alphanumerical string, describing the compatibility. "0000" means no special coding to ensure compatibility with a special switch type.	-ww: CWDM channel chosen from table at the end

Channel Allocation			
Code	Wavelength (nm)	Code	Wavelength (nm)
-47	1471	-55	1551
-49	1491	-57	1571
-51	1511	-59	1591
-53	1531	-61	1611

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