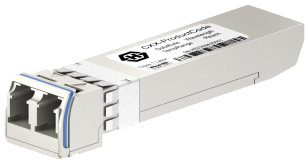
DATA SHEET

Transceivers
25G SFP28 LR
CSS-438A06

Properties

- Multi-protocol support
- Data rate 24.33...25.78 Gbps
- Reach up to 20km
- Wavelength 1310nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 6 dB



General data	
Form factor	SFP28
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	25G Ethernet, eCPRI, CPRI 10
Data rate standards	25GBASE-LR 25G eCPRI CPRI Option 7,8,10
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Power consumption	< 1.2 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.3 V ... 4 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

Transmitter Specifications	
Laser Type	Uncooled DFB
Operating Wavelength Range	1260 nm ... 1355nm
Grid	None
Average launch power per lane	-5 dBm ... 2 dBm
Side Mode Suppression	> 30 dB

Transceivers

25G SFP28 LR

CSS-438A06

Transmitter Specifications	
Supported Data rate	24.33 Gbps ... 25.78 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> 2 dBm
Receiver Sensitivity	< -10.6 dBm
Bit Error Rate at Receiver	5E-5
Maximum Optical Input Power per Lane (Overload)	3 dBm
Receiver LOS De-Assert	< -13 dBm
Receiver LOS Assert	> -30 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	24.33 Gbps ... 25.78 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSS-438A06xxxx-13	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-13: 1310nm

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