

S25G-L20-CHXX

SFP28 25GbE C-Band DWDM 100GHz, 20km DWDM 100GHz C-band 14dB SM

1. Product overview

Hot-pluggable SFP28 with narrow-linewidth C-band DWDM EML transmitter and APD receiver. Supports 20 km over 9/125 μ m SMF with FEC enabled and duplex LC connectivity.

2. Key features

- 20 km SMF transmission
- Duplex LC optical interface
- Digital Diagnostic Monitoring (DDM)
- Hot-pluggable form factor; single +3.3 V supply

3. Applications

25GbE C-band DWDM transmission

4. Technical data

Parameter	Specification
Data rate	Up to 25.78 Gb/s
Fiber	Single-mode fiber
Connector	Duplex LC
Power consumption	= 1.5 W
Input differential impedance	100 Ω (90-110 Ω)

5. Recommended operating conditions

Parameter	Specification
Case temperature	0 to +70°C
Nominal supply	+3.3 V
Maximum reach	20 km with host FEC
Recommended supply	3.15-3.45 V
Maximum current	= 450 mA

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6. Optical characteristics

Parameter	Specification
TX center wavelength	Channel-specific ITU DWDM grid
TX grid spacing (source)	0.8 nm (100 GHz grid)
Spectral width	= 0.25 nm
TX output power	-1 to +5 dBm
Extinction ratio	= 6.5 dB
TX-off power	= -30 dBm
RIN	= -130 dB/Hz
RX wavelength range	1520-1570 nm
Sensitivity (OMA)	= -15 dBm
Stressed sensitivity	= -12 dBm
Receiver overload	-4 dBm max
LOS Assert / De-assert	-26 / -21 dBm
LOS hysteresis	0.5-4.5 dB
Optical budget	14 dB

7. Digital diagnostics and management

Parameter	Specification
DDM/DOM	Supported via I2C

8. Safety and regulatory

IEEE 802.3by 25GBASE-LR; ITU-T G.694.1 DWDM (50/100 GHz grid).

9. Ordering information

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