100G QSFP28 DCO DWDM C-Band LC Duplex SMF

Variants

CH 35 CH 51 CH 50 CH 49 CH 48 CH 47 CH 46 CH 45 CH 44 CH 43 CH 42 CH 41 CH 39 CH 38 CH 37 CH 36 CH 34 CH 33 CH 32 CH 40 CH 31 CH 30 CH 29

Details

100G QSFP28 DCO DWDM C-Band Coherent Transceiver – Specifications

Category	Specification
General Specifications	
Model	QSP-100COTU
Product Type	100G QSFP28 DCO Coherent Transceiver
Form Factor	QSFP28 (Digital Coherent Optics)
Application	DCI, Metro DWDM, Long-haul, Backhaul Networks
Connector	Duplex LC
Fiber Type	OS2 Single-Mode Fiber
Data Rate	Up to 128 Gb/s (Line Rate)
Client Interface	100GE / OTU4
Modulation	DP-QPSK / DQPSK
Wavelength	Full C-Band Tunable (ITU-T G.694.1)
Transmission Distance	Up to 120 km (Unamplified)
Power Supply	+3.3 V
Power Consumption	13 W (ST) / 15 W (IT)

Category	Specification
Operating Temperature	ST: ?5°C to +70°C / IT: ?40°C to +85°C
Housing	Metal enclosure (Low EMI)
Hot Plug	Supported
Compliance	RoHS-6
Laser Safety	Class I (FDA/CDRH, IEC 60825)

Transmitter Optical Specifications

Parameter	Min	Max	Unit
Output Power	-8	-5	dBm
SMSR	40	—	dB
Tx Power Accuracy	-2	+2	dB
Tx Power Imbalance	—	2	dB
Tx XY Skew	—	3	ps
Tx IQ Imbalance	—	1	dB
Tx Quadrature Error	-5	+5	°
Tx IQ Skew	—	2	ps
EVM Mask Ratio	—	18	%
In-band OSNR	40	—	dB/0.1nm
Tx Reflectance	—	-22	dB

Receiver Optical Specifications

Parameter	Min	Max	Unit
Input Power Range	-40	+5	dBm
Sensitivity	—	-32	dBm
Chromatic Dispersion	—	10	ns/nm

Parameter	Min	Max	Unit
PMD Tolerance	—	16	ps
PDL Penalty	—	1	dB
SOP Tracking	—	100	kHz
Rx Reflectance	—	-22	dB
LOS Assert	-40	—	dBm
LOS De-assert	—	-32	dBm
LOS Hysteresis	—	5	dB
OSNR (Metro)	16.5	—	dB/0.1nm
OSNR (Long-haul)	15	—	dB/0.1nm

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