

SFP28 25G LR, 1310nm SMF Transceiver

Features

- Compatible with CPRI option10 24.33Gbps and 25GBASE 25.78Gbps
- Up to 10km transmission on SMF
- 1310nm DML laser transmitter
- SFP28 MSA compliant
- Built-in digital diagnostic functions
- Single +3.3V power supply
- Operating case temperature: 0 to +70 °C
- RoHS 6 Compliant



Applications

- 25GBASE-LR
- 24.33Gbps CPRI

Compliances

- Compliant to SFF-8402, SFF-8432.
- Compliant to IEEE802.3ba
- DDM Compliant with SFF-8472 SFP+ MSA.
- RoHS Compliant6



Description

The transceiver is designed for 24.33Gbps and 25.78Gbps data rate over SMF and support up to 10km link length. Digital Diagnostic Monitoring interface is available via an I2C interface.

Environmental Specifications

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	0		+70	°C
Storage Temperature	-40	-----	+85	°C
Operation Humidity*	5	-----	85	%
Storage Humidity	5	-----	85	%

(*) not condensing

Operating Specifications

Parameter	Min.	Typ.	Max.	Unit
Supply Voltage	3.135	+3.3	+3.465	V
Power Dissipation			1.2	W
Transmission Distance			10	Km

Optical Specifications

Transmitter:

Parameter	Min.	Typ.	Max.	Unit
Wavelength	1295	1310	1325	nm
Average Optical Power	-4.5		2.5	dBm
Optical Modulation Amplitude, 25GE	-2			dBm
OMA-TDP, 25GE	-3			dBm
Transmitter OFF Output Power			-30	dBm
Side Mode Suppression Ratio	30			dB
Extinction Ratio (ER)	3.5			dB
Transmitter and Dispersion Penalty			2.7	dB
Optical Return Loss Tolerance			11	dB

Receiver:

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1260	1310	1355	nm
Stressed OMA Sensitivity, 25GE			-8.3	dBm
OMA Sensitivity, 25GE@1E-12			-9.6	dBm
Average Rx Sensitivity, 25GE@1E-12			-11.4	dBm
Receiver Overload	2.5			dBm
Receiver Reflectance			-26	dB
LOSA	-30		-17	dBm
LOSD			-17	dBm
Hysteresis	0.5			dB

Ordering information

Jabil Part Number	Package	Rate	Reach	Other info
JPS825LRLCC000L13	SFP28	25G	10Km	DDM/RoHS

Contact information

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