

DATA SHEET

SFP28 25G LR, 1310NM SMF TRANSCEIVER EXTENDED TEMPERATURE

DESCRIPTION

This 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.



KEY 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: -40 to +85 °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

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	-40		+85	°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



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ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPS825LRLCE000L13	SFP28	25G	10Km	DDM/RoHS

CONTACT INFORMATION

For additional information and evaluation samples order, please contact:

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