

## 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

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Compatible with CPRI option10 24.33Gbps and 25GBASE 25.78Gbps

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Up to 10km transmission on SMF

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1310nm DML laser transmitter

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SFP28 MSA compliant

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Built-in digital diagnostic functions

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Single +3.3V power supply

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Operating case temperature: -40 to +85 °C

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RoHS 6 Compliant

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## APPLICATIONS

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25GBASE-LR

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24.33Gbps CPRI

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## COMPLIANCES

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Compliant to SFF-8402, SFF-8432.

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Compliant to IEEE802.3ba

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DDM Compliant with SFF-8472 SFP+ MSA.

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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

For additional information, visit [jabil.com/photonics](http://jabil.com/photonics)