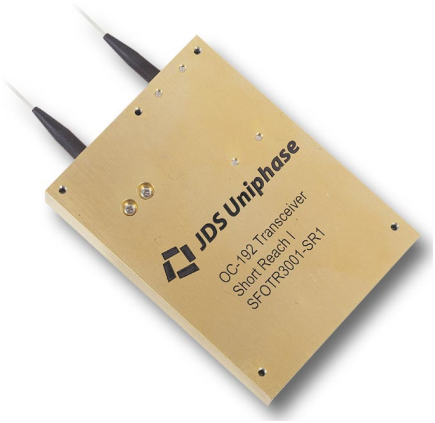
JDS Uniphase

Product Bulletin *New*



SFOTR3001

10 Gb/s OC-192 Small Form Factor MSA Transceiver/ Transponder Module

JDS Uniphase is introducing the 10 Gb/s OC-192 small form factor (2.2 x 3 x 0.53 in) MSA transceiver/transponder module as a technologically innovative compliment to the 3.5 x 4.5 x 0.53 in form factor transceiver/ transponder product family. The transceiver/ transponder can transmit and receive at SONET, FEC and ethernet data rates. The small form factor module allows customers the ability to offer the end data communications provider with smaller in size transmission equipment.

The SFOTR3001 series of transceivers/ transponders is designed to offer the industry a small form factor 300 pin MSA compliant transceiver/transponder with all of the functionality of the larger MSA form factor modules.

Key Features

- Same performance and functions as larger 300 pin MSA modules
- Standard 300 pin MSA interface
- 1310 and 1550 nm wavelengths
- Short, intermediate, and extended reach applications
- Reduced size (2.2 x 3 x .53 in)/increased capacity per card
- Low power consumption (6 W typical) and size without sacrificing performance
- Available for fiber distances up to 60 km without optical amplification
- Common mounting footprint with larger MSA modules
- Advanced high speed packaging

Applications

- Telecommunications
  - metropolitan area networks
  - subscriber loop
  - intra-office sonet/SDH
  - long reach ethernet
- high bit-rate data communications

Specifications

Parameter	Minimum	Typical	Maximum
Output power 0 dBm (SR1, SR2, IR)	-2 dBm	0 dBm	
Output power 3 dBm (ER only)	1 dBm	3 dBm	
Extinction ratio	10 dB	11.5 dB	
TX spectral range (SR1)	1290 nm		1330 nm
TX spectral range (SR2, IR, ER)	1530 nm		1565 nm
Sidemode suppression ratio	30 dB		
Spectral power density			0.1 mW/MHz
Jitter generation	Compliant with GR 1377		
PIN input power (BER = 10^{-12})	-14 dBm	-17 dBm	
APD input power (BER = 10^{-12})	-22 dBm	-23 dBm	
Maximum overload: PIN receiver (BER = 10^{-10})	-1 dBm	0 dBm	
Maximum overload: APD receiver (BER = 10^{-10})	-6 dBm	-3 dBm	
RX spectral range	1290 nm	1600 nm	
Optical return loss	27 dB		
Jitter tolerance and jitter transfer	Compliant with GR 1377		
System optical return loss	24 dB		
Optical path penalty 1310 nm		1 dB	
Optical path penalty 1550 nm		2 dB	
Attenuation at 1310 nm	1 dB		9 dB
Attenuation at 1550 nm	1 dB		6 dB
Chromatic dispersion tolerance (1290 to 1330 nm)	NA		70 ps/nm
Chromatic dispersion tolerance (1540 to 1565nm)	NA		800 ps/nm
Dimensions (W x H x D)	2.2 x 3 x 0.53 in		

Ordering Information

Indicate your requirements by selecting one option from each configuration table. Please print the corresponding codes in the available boxes to form your part number. For more information on this or other products and their availability, please contact your local JDS Uniphase sales representative or JDS Uniphase directly at 215 328-6500, by fax at 215 675-8414, or via e-mail at sales.pa@us.jdsuniphase.com. Visit our Web site at www.jdsuniphase.com.

Sample: SFOTR3001-IR-00-62-PIN- SON-LC

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Code	Reach
SR1	Short reach 1
SR2	Short reach 2
IR	Intermediate reach
ER	Extended reach

Code	Power Level
00	0 dBm output (IR only)
03	3 dBm output (ER only)

Code	Frequency (GHz)	Wavelength (nm)
16	191600	1564.68
17	191700	1563.86
.	.	.
.	.	.
.	.	.
62	196200	1527.99

Code	ReceiverType
PIN	PIN receiver
APD	APD receiver (IR and ER only)

Code	Data Rate
SON	Sonet
ETH	Ethernet
FEC	Forward Error Correction

Code	Connectors
SC	SC
FC	FC
LC	LC

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