

XFP-DWDM-TUNABLE-ZR-SO

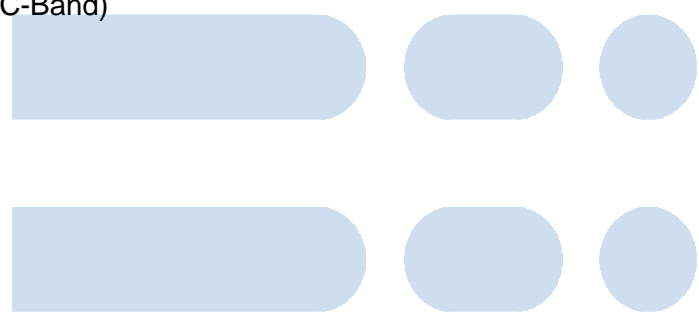
DWDM XFP, 10G, CH17.5 to CH61, 24dB, with DOM

General Description

The XFP-DWDM-TUNABLE-ZR-SO optical transceivers are designed for Storage, IP network and LAN. The XFP-DWDM-TUNABLE-ZR-SO is a hot pluggable module in the Z-direction that is mainly usable in typical router/switch line card applications. This XFP contains a tunable laser which allows you reconfigure the optic to another channel when necessary. This can be done with the Solid Optics recoder/retuner. This transceiver is fully compliant with the XFP Multi Sourcing Agreement (MSA).

Product features

- 80km MZM Tunable TOSA (wavelength locker function)
- Supports 50GHz ITU-based channel spacing (C-Band)
- LC Connector
- Comes with wavelength locker function
- Supports 9.95Gb/s – 11.3Gb/s transmission
- Hot pluggable XFP MSA form factor
- DOM (Digital Optics Monitoring) support.
- Temperature Stabilized DWDM EML Transmitter
- Power Dissipation <3.5W
- -300 to +1600 ps/nm dispersion tolerance
- Temperature range -5°C to 70°C
- RoHS 6 Compliant



Optical Characteristics

No.	Parameters	Symbols	Min.	Typ.	Max.	Unit	Remarks
Transmitter							
1	Operating Data Rate	-	9.95		11.3	Gbit/s	
2	Transmitter Center Wavelength	λ_c	$\lambda_c-2.5$	λ_c	$\lambda_c+2.5$	GHz	ITU-T
3	Wavelength Range	Δ	1528.77		1563.86	nm	
4	Wavelength Tuning (Cold)				30	s	
5	Wavelength Tuning (Warm)			0.5	2	s	
6	Center Wavelength Spacing			50		GHz	
7	Crossing Ratio		40		60	%	
8	SMSR	SMSR	30			dB	
9	Optical Output Power	P_o	0		+4	dBm	
10	Disabled Power	P_{off}	-		-30	dBm	
11	Extinction Ratio	ER	9.0	10	-	dB	
Receiver							
12	Operating Data Rate	-	9.95		11.3	Gbit/s	
13	Input Center Wavelength	λ_{rc}	1250		1620	nm	
14	Overload	R_{ovl}	-7.0			dBm	
15	Minimum Sensitivity	P_{min}			-24.0	dBm	
16	Optical Return Loss	ORL	27			dB	
17	LOS De-Assert	LOSD			-26	dBm	
18	LOS Assert	LOSA	-39			dBm	
19	LOS Hysteresis	LOSH	0.5			dB	

DOM Parameters

No.	Parameters	Min.	Max.	Unit
1	Transponder Temperature Monitor Accuracy	-3	+3	°C
2	Laser Bias Current Monitor Accuracy	-10%	+10%	mA
3	Supply voltage Monitor Absolute Error	-0.1	-0.1	V
4	Transmit Power Monitor Accuracy	-3	+3	dB
5	Receive Power Monitor Accuracy	-3	+3	dB

Channel selection

Channel number	Wavelength (nm)	Frequency (GHz)
15	1566.31	191400
16	1565.50	191500
17	1564.68	191600
18	1563.86	191700
19	1563.05	191800
20	1562.23	191900
21	1561.42	192000
22	1560.61	192100
23	1559.79	192200
24	1558.98	192300
25	1558.17	192400
26	1557.36	192500
27	1556.56	192600
28	1555.75	192700
29	1554.94	192800
30	1554.13	192900
31	1553.33	193000
32	1552.52	193100
33	1551.72	193200
34	1550.92	193300
35	1550.12	193400
36	1549.32	193500
37	1547.72	193700
38	1546.92	193800

Channel number	Wavelength (nm)	Frequency (GHz)
39	1546.12	193900
40	1545.32	194000
41	1544.53	194100
42	1543.73	194200
43	1542.94	194300
44	1542.14	194400
45	1541.35	194500
46	1540.56	194600
47	1539.77	194700
48	1538.98	194800
49	1538.19	194900
50	1537.40	195000
51	1536.61	195100
52	1535.82	195200
53	1535.04	195300
54	1534.25	195400
55	1533.47	195500
56	1532.68	195600
57	1531.90	195700
58	1531.12	195800
59	1530.33	195900
60	1529.55	196000
61	1528.77	196100