

50GHz DWDM Module

Features

High Demux Channel Isolation
Low Polarization Dependent Loss
Flat and Wide Passband
High Reliability

Applications

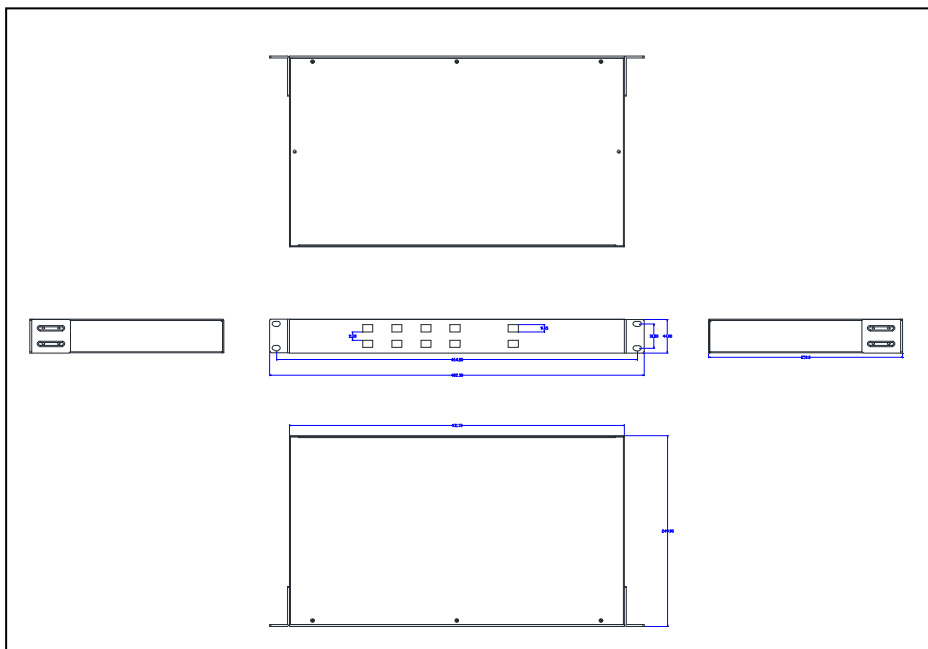
Long Haul DWDM System
Metro DWDM System
Access/Enterprise Network
Test Instrument

Specifications

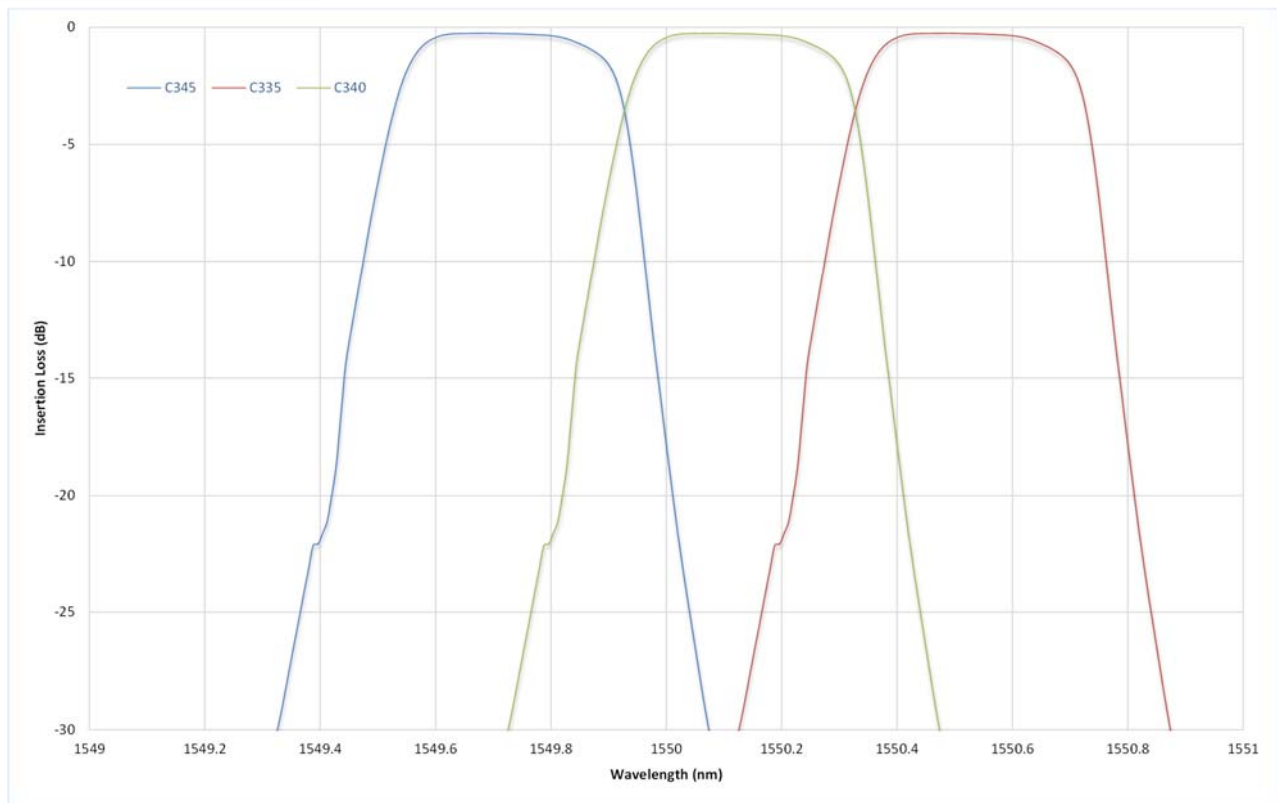
Parameters			Unit	2	4	8	16	40
Channel Wavelength			nm	ITU 100 GHz Grid				
Center Wavelength Accuracy			nm	± 0.05				
Channel Spacing			GHz	50 (0.4nm)				
Channel Passband (@-1dB bandwidth)			nm	≥0.12				
Insertion Loss			dB	≤1.8	≤2.5	≤3.0	≤3.4	≤3.6
Channel Uniformity			dB	≤0.6	≤1.0	≤1.3	<1.8	≤1.8
Channel Ripple			dB	≤0.3				
Isolation	Mux	Adjacent	dB	N/A				
		Non-adjacent	dB	N/A				
	Demux	Adjacent	dB	≥25				
		Non-adjacent	dB	≥30				
Insertion Loss Temperature Sensitivity			dB/℃	≤0.003				
Wavelength Temperature Shifting			nm/℃	≤0.002				
PDL			dB	≤0.10	≤0.11	≤0.25	≤0.25	≤0.30
PMD			ps	≤0.10				
Directivity			dB	≥50				
Return Loss			dB	≥45				
Power Handling			mW	≤500				
Operating Temperature			℃	0 ~ +70				
Storage Temperature			℃	-40 ~ +85				
Dimensions			mm	100x80x10	100x80x10	120X80X18	120X80X18	150x110x19

* Insertion Loss +0.2dB, Return Loss -5dB if add connector.

Package Dimensions -1U, 4ch, Mux+Demux



Typical Spectrum (50G)



Ordering Information

DWDM- ①-②②②-③-④④-⑤⑤⑤-⑥-⑦-⑧⑧

①	Type	M=Mux; D=Demux;
②	Channel Space	0.5=50G;
③	Channel Type	4=4ch; 8=8ch; 16=16ch;32=32ch; 40=40ch;
④	Start Channel Number	21=21ch; 21*=21*ch; 22=22ch; 22*=22*ch;; 72*=72*ch;
⑤	Pigtail Type	250=250um Fiber; 900=900um Loose Tube; 3mm=3mm Loose Tube;
⑥	Fiber Type	1=SMF-28e;
⑦	Fiber Length	1=1m;
⑧	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;

Channel Table

No	Channel	f(Ghz)	λ (nm)	No	Channel	f(Ghz)	λ (nm)	No	Channel	f(Ghz)	λ (nm)
1	C ⁺ 13	191350	1566.72	33	C ⁺ 29	192950	1553.73	65	C ⁺ 45	194550	1540.95
2	C14	191400	1566.31	34	C30	193000	1553.33	66	C46	194600	1540.56
3	C ⁺ 14	191450	1565.90	35	C ⁺ 30	193050	1552.93	67	C ⁺ 46	194650	1540.16
4	C15	191500	1565.50	36	C31	193100	1552.52	68	C47	194700	1539.77
5	C ⁺ 15	191550	1565.09	37	C ⁺ 31	193150	1552.12	69	C ⁺ 47	194750	1539.37
6	C16	191600	1564.68	38	C32	193200	1551.72	70	C48	194800	1538.98
7	C ⁺ 16	191650	1564.27	39	C ⁺ 32	193250	1551.32	71	C ⁺ 48	194850	1538.58
8	C17	191700	1563.86	40	C33	193300	1550.92	72	C49	194900	1538.19
9	C ⁺ 17	191750	1563.45	41	C ⁺ 33	193350	1550.52	73	C ⁺ 49	194950	1537.79
10	C18	191800	1563.05	42	C34	193400	1550.12	74	C50	195000	1537.40
11	C ⁺ 18	191850	1562.64	43	C ⁺ 34	193450	1549.72	75	C ⁺ 50	195050	1537.00
12	C19	191900	1562.23	44	C35	193500	1549.32	76	C51	195100	1536.61
13	C ⁺ 19	191950	1561.83	45	C ⁺ 35	193550	1548.91	77	C ⁺ 51	195150	1536.22
14	C20	192000	1561.42	46	C36	193600	1548.51	78	C52	195200	1535.82
15	C ⁺ 20	192050	1561.01	47	C ⁺ 36	193650	1548.11	79	C ⁺ 52	195250	1535.43
16	C21	192100	1560.61	48	C37	193700	1547.72	80	C53	195300	1535.04
17	C ⁺ 21	192150	1560.20	49	C ⁺ 37	193750	1547.32	81	C ⁺ 53	195350	1534.64
18	C22	192200	1559.79	50	C38	193800	1546.92	82	C54	195400	1534.25
19	C ⁺ 22	192250	1559.39	51	C ⁺ 38	193850	1546.52	83	C ⁺ 54	195450	1533.86
20	C23	192300	1558.98	52	C39	193900	1546.12	84	C55	195500	1533.47
21	C ⁺ 23	192350	1558.58	53	C ⁺ 39	193950	1545.72	85	C ⁺ 55	195550	1533.07
22	C24	192400	1558.17	54	C40	194000	1545.32	86	C56	195600	1532.68
23	C ⁺ 24	192450	1557.77	55	C ⁺ 40	194050	1544.92	87	C ⁺ 56	195650	1532.29
24	C25	192500	1557.36	56	C41	194100	1544.53	88	C57	195700	1531.90
25	C ⁺ 25	192550	1556.96	57	C ⁺ 41	194150	1544.13	89	C ⁺ 57	195750	1531.51
26	C26	192600	1556.55	58	C42	194200	1543.73	90	C58	195800	1531.12
27	C ⁺ 26	192650	1556.15	59	C ⁺ 42	194250	1543.33	91	C ⁺ 58	195850	1530.72
28	C27	192700	1555.75	60	C43	194300	1542.94	92	C59	195900	1530.33
29	C ⁺ 27	192750	1555.34	61	C ⁺ 43	194350	1542.54	93	C ⁺ 59	195950	1529.94
30	C28	192800	1554.94	62	C44	194400	1542.14	94	C60	196000	1529.55
31	C ⁺ 28	192850	1554.54	63	C ⁺ 44	194450	1541.75	95	C ⁺ 60	196050	1529.16