DWDM-0500

50GHz Dense Wavelength Division Multiplexer

PRODUCT DESCRIPTION

DWDM series is based on mature thin film filtering technology and adopt metal sealing technology to encapsulate. It has the feature of flat channel bandwidth, flexible channel configuration, low insert loss and high isolation. The flexibility of channel configuration and modularized design make it convenient for system upgrading and expanding. All the Huatai products have no epoxy glue in optical line and can be used in high power optical communication system.

DWDM-0500M: 50GHz (0.4nm) Mux.

DWDM-0500D: 50GHz (0.4nm) Demux.

PRODUCT FEATURE

- ▶100G channel spacing (DWDM-0500)
- ▶High channel isolation
- ▶Low insertion loss
- ▶High stability, high reliability
- ▶No epoxy glue in optical line
- ▶Compact structure

MAIN APPLICATION

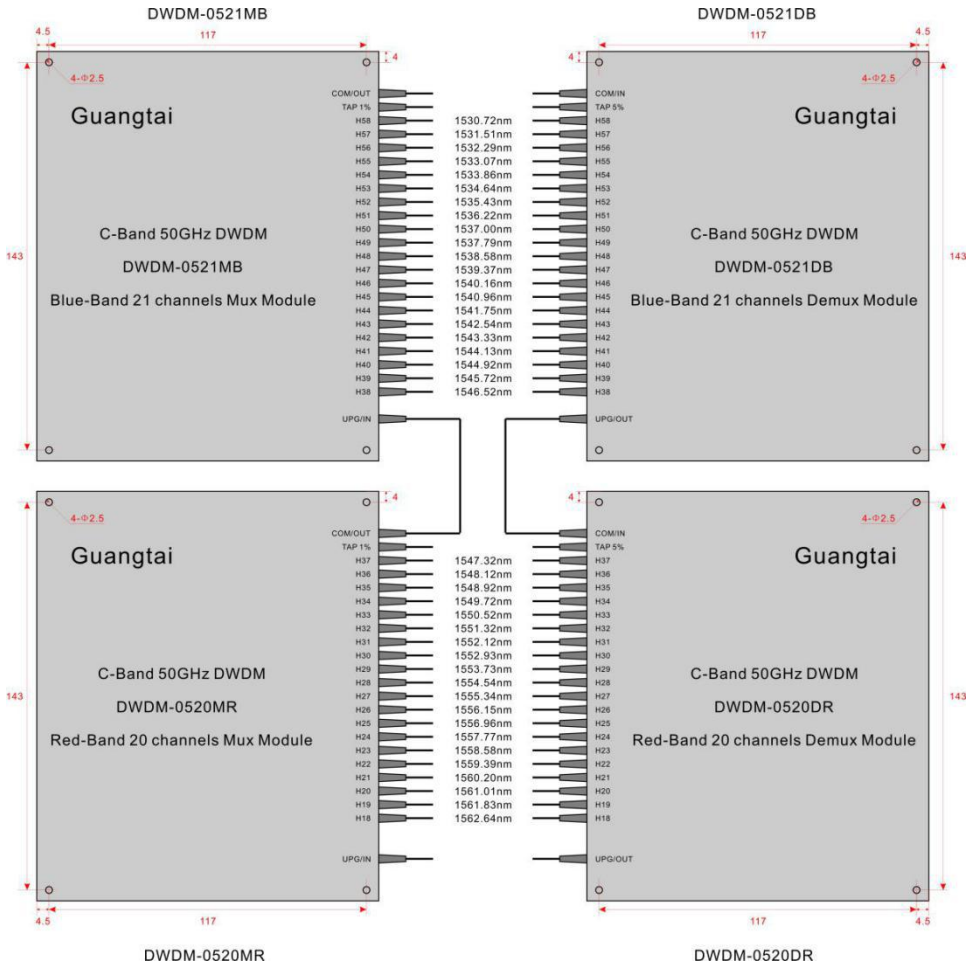
- ▶Main trunk DWDM system
- ▶MAN DWDM system
- ▶Laboratory application

TECHNIQUE INDEX

Performance				Index	Supplement
Operating wavelength range	C-Band		(nm)	1528.77~1563.86	
	L-Band			1569.59~1604.03	
Operating center wavelength			(nm)	ITU Grid 50GHz	
Center wavelength accuracy			(nm)	±0.03	
Channel spacing			(GHz)	50	
Channel passband (@-0.5dB bandwidth)			(nm)	ITU±0.07	
Insertion loss over passband			(dB)	≤3.0	
				≤5.2	
				≤10.0	
Channel ripple			(dB)	≤0.5	
Isolation	Adjacent		(dB)	≥25	
	Non-adjacent			≥35	
Polarization dependent loss			(dB)	≤0.15	
Polarization mode dispersion			(ps)	≤0.10	
Directivity			(dB)	≥50	
Return loss			(dB)	≥50	
Power handling			(mW)	≥500	
Connector type				No	
Fiber length			(m)	≥1.0	
Fiber type				SMF-28e with 900μm loose tube	
Operating temperature			(℃)	0~+70	
Storage temperature			(℃)	-40~+85	
Dimensions	Moduletor		(mm)	120×80×12	
				142×115×14.5	
	Stander	1U	(")	19×10.7×1.75	
		2U		19×10.7×3.5	

STAPLE C-BAND 100GHZ DWDM

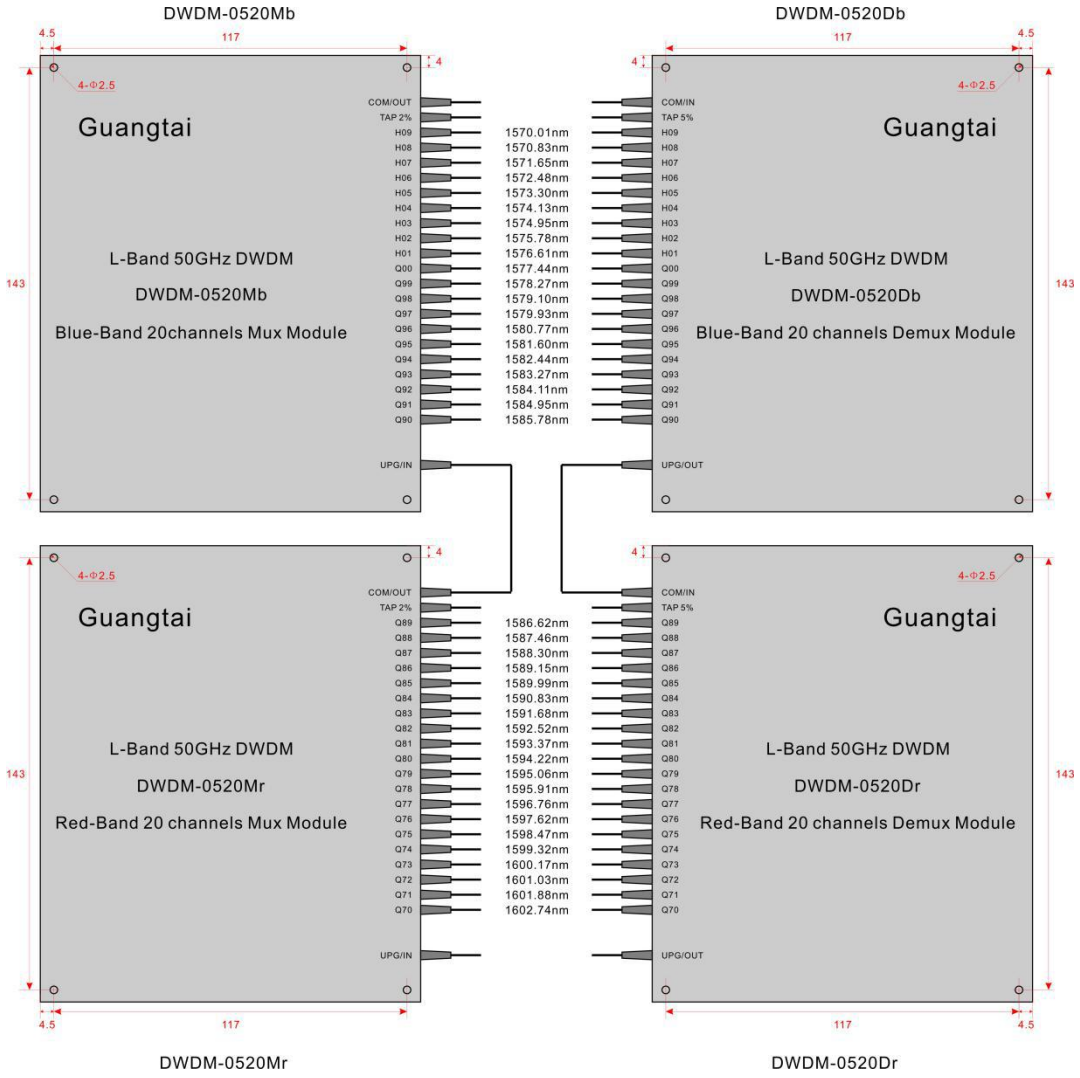
C-Band 41channels 50GHz Mux/Demux



Wavelength configuration: H58~H18

H58	1530.72	H48	1538.58	H38	1546.52	H28	1554.54
H57	1531.51	H47	1539.37	H37	1547.32	H27	1555.34
H56	1532.29	H46	1540.16	H36	1548.12	H26	1556.15
H55	1533.07	H45	1540.96	H35	1548.92	H25	1556.96
H54	1533.86	H44	1541.75	H34	1549.72	H24	1557.77
H53	1534.64	H43	1542.54	H33	1550.52	H23	1558.58
H52	1535.43	H42	1543.33	H32	1551.32	H22	1559.39
H51	1536.22	H41	1544.13	H31	1552.12	H21	1560.20
H50	1537.00	H40	1544.92	H30	1552.93	H20	1561.03
H49	1537.79	H39	1545.72	H29	1553.73	H19	1561.83
						H18	1562.64

L-Band 40channels 50GHz Mux/Demux



Wavelength configuration: H09~Q70

H09	1570.01	Q99	1578.27	Q89	1586.62	Q79	1595.06
H08	1570.83	Q98	1579.10	Q88	1587.46	Q78	1595.91
H07	1571.65	Q97	1579.93	Q87	1588.30	Q77	1596.76
H06	1572.48	Q96	1580.77	Q86	1589.15	Q76	1597.62
H05	1573.30	Q95	1581.60	Q85	1589.99	Q75	1598.47
H04	1574.13	Q94	1582.44	Q84	1590.83	Q74	1599.32
H03	1574.95	Q93	1583.27	Q83	1591.68	Q73	1600.17
H02	1575.78	Q92	1584.11	Q82	1592.52	Q72	1601.03
H01	1576.61	Q91	1584.95	Q81	1593.37	Q71	1601.88
H00	1577.44	Q90	1585.78	Q80	1594.22	Q70	1602.74

C&L-Band 80 (or 81) channels 50GHz Mux/Demux

Wavelength configuration: H58~H18+H09~Q70

PRODUCT SERIES

Model number	Mux/Demux	Channel spacing	Wavelength	Number of channels	Channel configuration
DWDM-0521MB	Mux	50GHz	C-Band Blue-Band	21	H58~H38
DWDM-0521DB	Demux				
DWDM-0520MR	Mux	50GHz	C-Band Red-Band	20	H37~H18
DWDM-0520DR	Demux				
DWDM-0541MC	Mux	50GHz	C-Band	41	H58~H18
DWDM-0541DC	Demux				
DWDM-5020Mb	Mux	50GHz	L-Band Blue-Band	20	H09~Q90
DWDM-0520Db	Demux				
DWDM-0520Mr	Mux	50GHz	L-Band Red-Band	20	Q89~Q70
DWDM-0520Dr	Demux				
DWDM-0540ML	Mux	50GHz	L-Band	40	H09~Q70
DWDM-0540DL	Demux				
DWDM-0581MW	Mux	50GHz	C & L-Band	81	H58~Q70
DWDM-0581DW	Demux				

MODEL EXPLANATION