

DWDM-1000

100GHz 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-1000M: 100GHz (0.8nm) Mux.

DWDM-1000D: 100GHz (0.8nm) Demux.

PRODUCT FEATURE

- ▶ 100G channel spacing (DWDM-1000)
- 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
- ► CATV
- ► FTTx PON
- ► FTTH for satallite TV
- ► Laboratory application

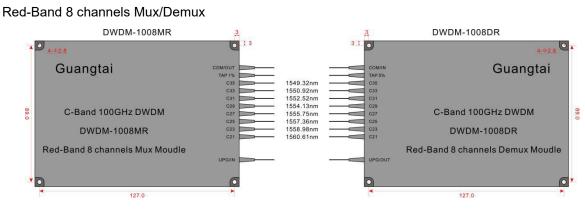


TECHNIQUE INDEX

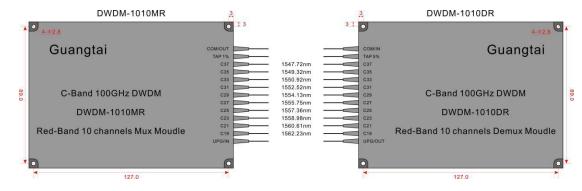
Performance				Index	Supplement			
Operating	C-B	and		1528.77~1563.86				
wavelength range	L-B	and	(nm)	1569.59~1604.03				
Operating center wavelength			(nm)	ITU Grid 100GHz				
Center wavelength ac	curacy		(nm)	±0.03				
Channel spacing	Channel spacing			100				
Channel passband (@	0-0.5dB band	width)	(nm)	ITU±0.11				
				≤3.0	1008			
Insertion loss over pa	Insertion loss over passband			≤5.2	1016			
				≤10.0	1032			
Channel ripple	Channel ripple			≤0.5				
lociation	Adjacent			≥25				
Isolation	Isolation Non-adjacent		(dB)	≥35				
Polarization depender	Polarization dependent loss			≤0.15				
Polarization mode dis	Polarization mode dispersion			≤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 temperatur	e		(°C)	0~+70				
Storage temperature	Storage temperature			-40~+85				
	Moduletor Stander 1U 2U			120×80×12	1008, 1016			
			(mm)	142×115×14.5	1032			
Dimensions			/11\	19×10.7×1.75				
			(")	19×10.7×3.5				



STAPLE C-BAND 100GHZ DWDM

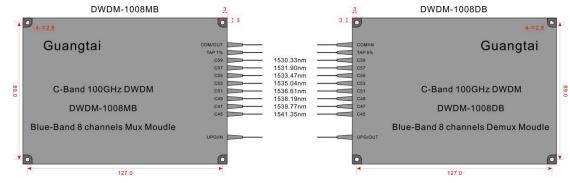


Red-Band 10 channels Mux/Demux



Remark: DWDM-1009MR, DR is lack of C19 wavelength compared with DWDM-1010MR, DR

Blue-Band 8 channels Mux/Demux



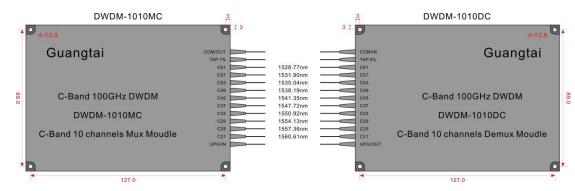


Blue-Band 10 channels Mux/Demux

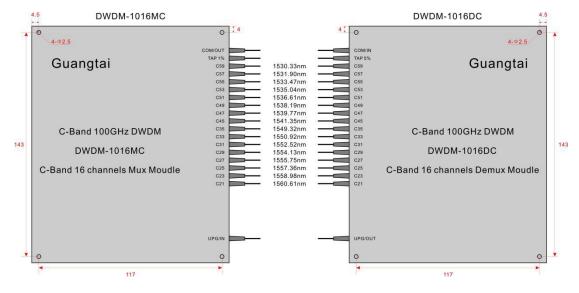
DWDM-1010MB 3			.3.	DWDM-1010DB
▲ ● _{4-Ф2.8}	• • 3		3:0	4-02.8
Guangtai	COM/OUT TAP 1% C61 C59	1528.77nm 1530.33nm	COM/IN TAP 5% C61 C59	Guangtai
C-Band 100GHz DWDM	C57 C55 C53 C51 C49	1531.90nm 1533.47nm 1535.04nm 1536.61nm 1538.19nm	C57 C55 C53 C51 C49	C-Band 100GHz DWDM DWDM-1010DB
Blue-Band 10 channels Mux Moudle	C47 C45 C43 UPG/IN	1539.77nm 1541.35nm 1542.94nm	C47 C45 C43 UPG/OUT	Blue-Band 10 channels Demux Moudle
	•		0	(

Remark: DWDM-1009MB, DB is lack of C61 wavelength compared with DWDM-1010MB, DB

C-Band 10 channels Mux/Demux

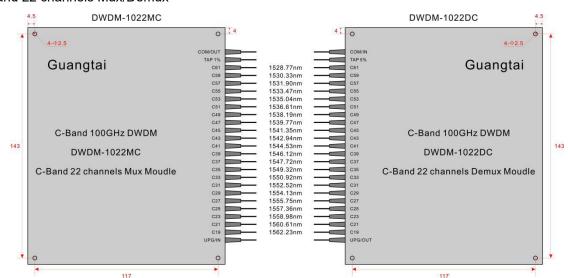


C-Band 16 channels Mux/Demux





C-Band 22 channels Mux/Demux



Remark: 1. DWDM-1020MC, DC is lack of two wavelengths C41 and C39 compared with DWDM-1022MC, DC.

2. DWDM-1018MC, DC is lack of four wavelengths C61, C41, C39 and C19 compared with DWDM-1022MC, DC.

PRODUCT SERIES

Common C/Red-Band 100GHz DWDM

Model number	Mux/Demux	Number of channels		Channel configuration								
DWDM-1004MR/1	Mux		C37	C35			C29			C23		
DWDM-1004DR/1	Demux	4	037	035			629			623		
DWDM-1004MR/2	Mux				C33	C31		C27	C25			
DWDM-1004DR/2	Demux				633	031		627	625			
DWDM-1004MR/3	Mux		0.20	C34	C32			C26				
DWDM-1004DR/3	Demux		C36									
DWDM-1005MR/1	Mux	5			C33	C31	C29			C23	C21	
DWDM-1005DR/1	Demux				033	031	029			025	021	
DWDM-1005MR/2	Mux				C33	C31		C27	C25		C21	
DWDM-1005DR/2	Demux				633	031		021	625		621	
DWDM-1008MR/1	Mux	- 8		0.05	C33	C31	C29	C27	C25	C23	C21	
DWDM-1008DR/1	Demux	ð		C35						623		
DWDM-1009MR/1	Mux	0	007	0.05	000	004	1 C29	007	C25	000	C21	
DWDM-1009DR/1	Demux	9	C37	C35	C33	C31		C27		C23		
DWDM-1010MR/1	Mux	10	C37	C35	C33	C31	000	007	005	C23	004	0.10
DWDM-1010DR/1	Demux	10		635	633	631	C29	C27	C25	623	C21	C19



Common C/Blue-Band 100GHz DWDM

Model number	Mux/Demux	Number of channels	Channel configuration									
DWDM-1004MB/1	Mux	- 4	C61	C59		C55	052					
DWDM-1004DB/1	Demux		001	0.59		055	C53					
DWDM-1004MB/2	Mux				057			054	0.40	0.47		
DWDM-1004DB/2	Demux				C57			C51	C49	C47		
DWDM-1004MB/3	Mux		C60	C58	C56	C54						
DWDM-1004DB/3	Demux											
DWDM-1005MB/1	Mux	5	C61	C59		C55	C53				C45	
DWDM-1005DB/1	Demux										045	
DWDM-1005MB/2	Mux				C57			C51	C49	C47	C45	
DWDM-1005DB/2	Demux											
DWDM-1008MB/1	Mux	8		C59	C57	C55	C53	C51	C49	C47	C45	
DWDM-1008DB/1	Demux	0		C29	657					647		
DWDM-1009MB/1	Mux	0	061	050	057	<u>OFF</u>	C53	054	C49	C47	C45	
DWDM-1009DB/1	Demux	9	C61	C59	C57	C55	653	C51				
DWDM-1010MB/1	Mux	10	C61	C59	C57	C55	050	054	040	0.47	0.45	C43
DWDM-1010DB/1	Demux	10	01	009	007	000	C53	C51	C49	C47	C45	043

Common C-Band 100GHz DWDM

Model number	Mux/ Demux	Number of channels	Channel configuration										
DWDM-1010MC/1	Mux	40	C6		C5		C5		C4		C4		
DWDM-1010DC/1	Demux	10		C3		C3		C2		C2		C2	
DWDM-1016MC/1	Mux	- 16		C5	C5	C5	C5	C5	C4	C4	C4		
DWDM-1016DC/1	Demux				C3	C3	C3	C2	C2	C2	C2	C2	
DWDM-1018MC/1	Mux	18		C5	C5	C5	C5	C5	C4	C4	C4	C4	
DWDM-1018DC/1	Demux			C3	C3	C3	C3	C2	C2	C2	C2	C2	
DWDM-1020MC/1	Mux		C6	C5	C5	C5	C5	C5	C4	C4	C4	C4	
DWDM-1020DC/1	Demux	20		C3	C3	C3	C3	C2	C2	C2	C2	C2	C19
DWDM-1022MC/1	Mux	22	C6	C5	C5	C5	C5	C5	C4	C4	C4	C4	C41
DWDM-1022DC/1	Demux	22	C3	C3	C3	C3	C3	C2	C2	C2	C2	C2	C19



MODEL EXPLANATION

