

DWDM Module

1. Features

- ◆ Low Insertion Loss
- ◆ High Isolation
- ◆ Low PDL
- ◆ Compact Design
- ◆ Good Channel-to-channel Uniformity
- ◆ Wide Operating Wavelength:
1460nm~1620nm
- ◆ Wide Operating Temperature:
-5°C~75°C
- ◆ High Reliability and Stability



2. Applications

- ◆ DWDM System
- ◆ PON Networks
- ◆ CATV Links



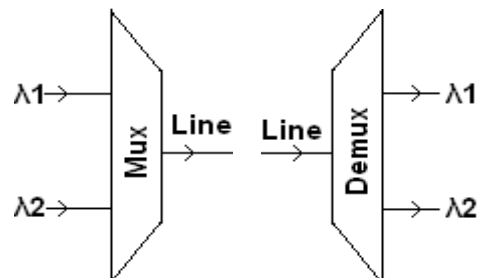
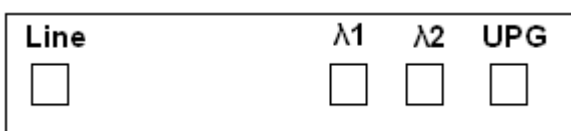
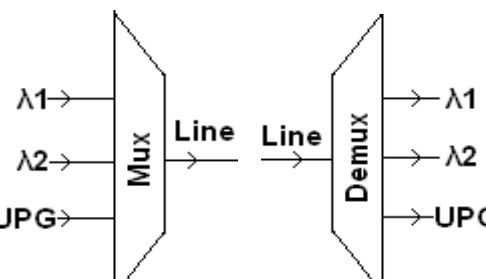
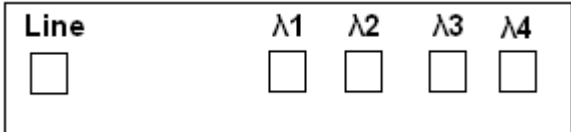
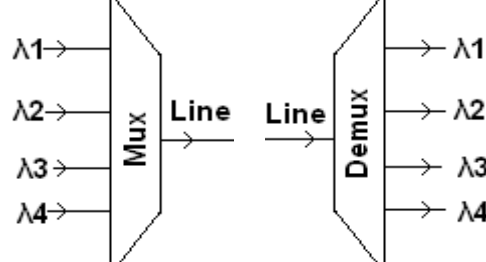
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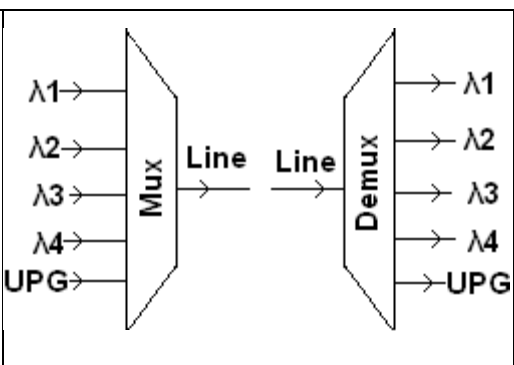
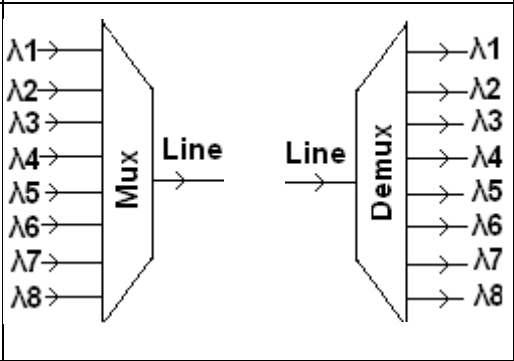
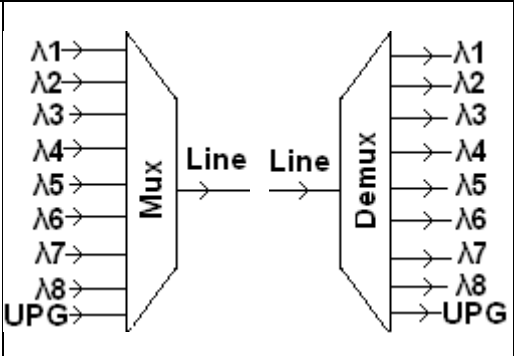
- ◆ Telcordia GR-1209-CORE-2001
- ◆ Telcordia GR-1221-CORE-1999
- ◆ ITU-T G.694.1
- ◆ RoHS

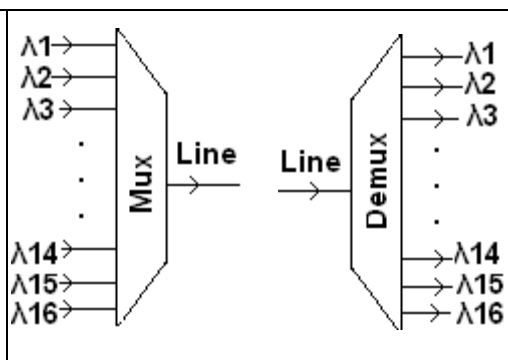


4. Specifications

DWDM Mux/Demux Module

GWM-02XMXX190910-55 		2 Channel DWDM Mux/Demux λ1, λ2 IL Link(dB): ≤1.6 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620
GWM-02X3XX190910-55 		2CH+Upgrade DWDM Mux/Demux λ1, λ2, Upgrade IL Link(dB): ≤1.8 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Upgrade Channel: ≥12 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620
GWM-04XMXX190910-55 		4 Channel DWDM Mux/Demux λ1, λ2, λ3, λ4 IL Link(dB): ≤2.0 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620

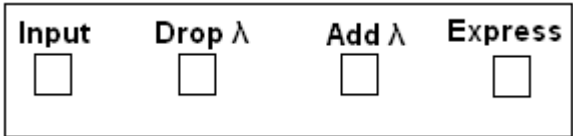
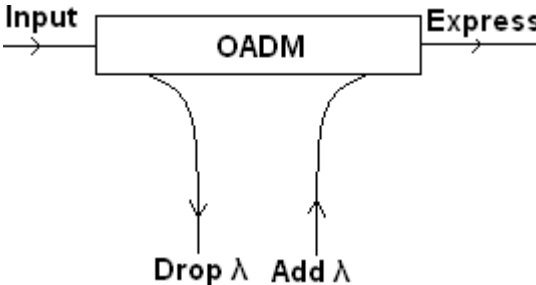
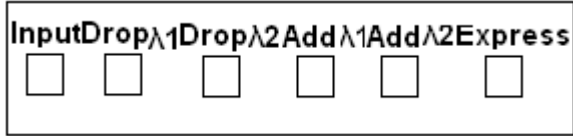
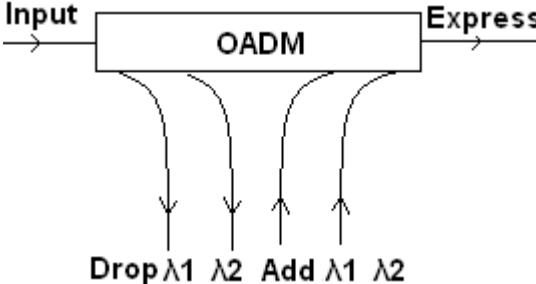
GWM-04X3XX190910-55 Line λ1 λ2 λ3 λ4 UPG ☐ ☐ ☐ ☐ ☐ ☐		4 CH+Upgrade DWDM Mux/Demux λ1, λ2, λ3, λ4, Upgrade IL Link(dB): ≤2.2 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Upgrade Channel: ≥12 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620
GWM-08XMXX190910-55 Line λ1 λ2 λ3 λ4 λ5 λ6 λ7 λ8 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		8 Channel DWDM Mux/Demux λ1, λ2, λ3, λ4, λ5, λ6, λ7, λ8 IL Link(dB): ≤3.2 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620
GWM-08X3XX190910-55 Line λ1 λ2 λ3 λ4 λ5 λ6 λ7 λ8 UPG ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		8CH+Upgrade DWDM Mux/Demux λ1, λ2, λ3, λ4, λ5, λ6, λ7, λ8, Upgrade IL Link(dB): ≤3.3 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Upgrade Channel: ≥12 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620

GWM-16XMXX190910-55 Line $\lambda 1$ $\lambda 2$ $\lambda 3$ $\lambda 14$ $\lambda 15$ $\lambda 16$ □ □ □ □ . . . □ □ □		16 Channel DWDM Mux/Demux $\lambda 1, \lambda 2, \lambda 3, \lambda 4, \lambda 5, \lambda 6, \lambda 7, \lambda 8, \lambda 9, \lambda 10, \lambda 11, \lambda 12, \lambda 13, \lambda 14, \lambda 15, \lambda 16$ IL Link(dB): ≤ 4.2 Isolation(dB): Adjacent: ≥ 30 Non-Adjacent: ≥ 40 Return Loss (dB): ≥ 45 Operating Wavelength(nm): 1460~1620
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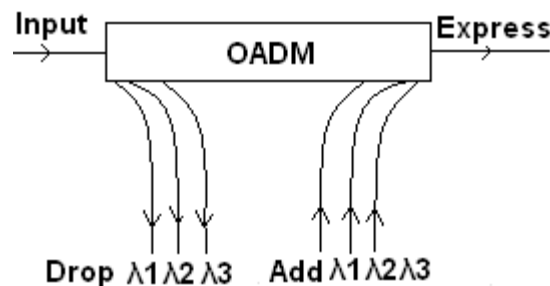
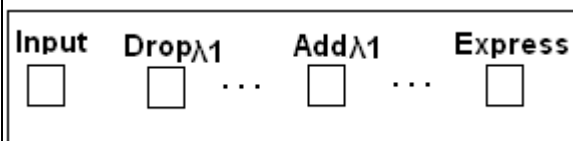
Notes:

1. λ =ITU
2. λ =C01,C02,C03...C72
3. Specified with connectors.
4. Available modules or LGX or 19 "case packaging.
5. Operating Temperature (°C): -5~75.
6. Storage Temperature (°C): -40~85.

DWDM Optical Add/Drop Module

GADM-1XX190910-555 		1CH DWDM OADM λ Add/Drop Channel IL(dB): ≤1.2 Express Channel IL(dB): ≤0.8 Isolation(dB): Add&Drop Adjacent: ≥30 Add&Drop Non-Adjacent: ≥40 Express: ≥20 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620
GADM-2XX190910-555 		2CH DWDM OADM λ1, λ2 Add/Drop Channel IL(dB): ≤1.6 Express Channel IL(dB): ≤1.6 Isolation(dB): Add&Drop Adjacent: ≥30 Add&Drop Non-Adjacent: ≥40 Express: ≥20 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620

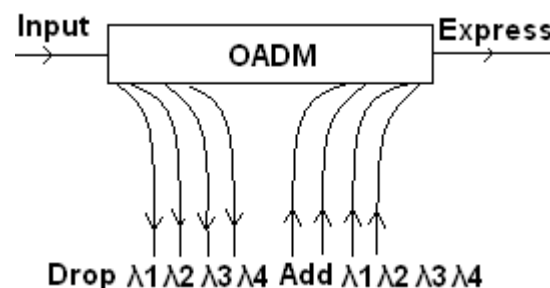
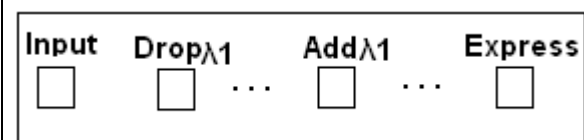
GADM-3XX190910-555



3CH DWDM OADM

$\lambda_1, \lambda_2, \lambda_3$,
Add/Drop Channel IL(dB): ≤ 1.8
Express Channel IL(dB): ≤ 1.8
Isolation(dB):
Add&Drop Adjacent: ≥ 30
Add&Drop Non-Adjacent: ≥ 40
Express: ≥ 20
Return Loss (dB): ≥ 45
Operating Wavelength(nm):
1460~1620

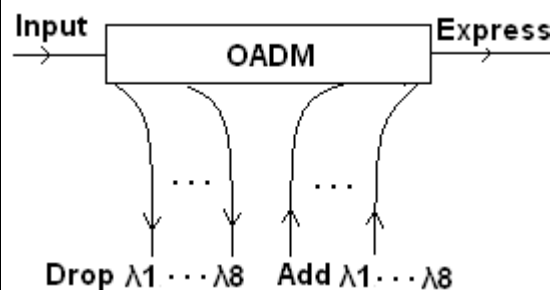
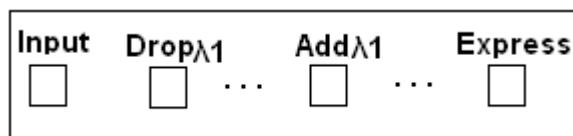
GADM-4XX190910-555



4CH DWDM OADM

$\lambda_1, \lambda_2, \lambda_3, \lambda_4$
Add/Drop Channel IL(dB): ≤ 2.0
Express Channel IL(dB): ≤ 2.2
Isolation(dB):
Add&Drop Adjacent: ≥ 30
Add&Drop Non-Adjacent : ≥ 40
Express: ≥ 20
Return Loss (dB): ≥ 45
Operating Wavelength(nm):
1460~1620

GADM-8XX190910-555



8CH DWDM OADM

$\lambda_1, \lambda_2, \lambda_3, \lambda_4, \lambda_5, \lambda_6, \lambda_7, \lambda_8$
 Add/Drop Channel IL(dB): ≤ 3.2
 Express Channel IL(dB): ≤ 4.0
 Isolation(dB):
 Add&Drop Adjacent: ≥ 30
 Add&Drop Non-Adjacent: ≥ 40
 Express: ≥ 20
 Return Loss (dB): ≥ 45
 Operating Wavelength(nm):
 1460~1620

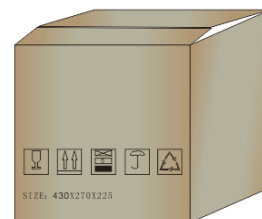
Notes:

1. λ =ITU
2. λ = C01,C02,C03...C72
3. Specified with connectors.
4. Available modules or LGX or 19 "case packaging.
5. Operating Temperature (°C): -5~75.
6. Storage Temperature (°C): -40~85.

5. Package

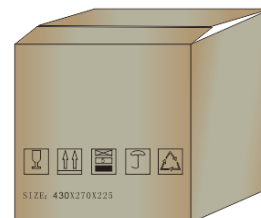
DWDM Module

Type	1X2	1X4	1X8	1X16	1X18	Box Size
Inner Box (pcs)	2	2	2	1	1	310mm*280mm*45mm
Outer Box (pcs)	12	12	12	6	6	440mm*330mm*360mm



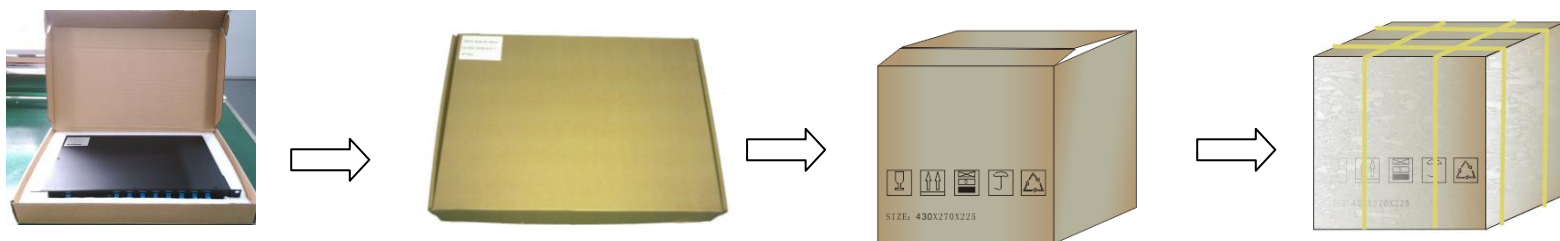
DWDM LGX

Type	1X2	1X4	1X8	Box Size
Inner Box (pcs)	2	2	2	300mm*200mm*55mm
Outer Box (pcs)	12	12	12	440mm*330mm*200mm



DWDM 19"Rack-Mount

Type	1X2	1X4	1X8	1X16	1X18	Box Size
Inner Box (pcs)	1	1	1	1	1	515mm*310mm*60mm
Outer Box (pcs)	5	5	5	5	5	515mm*310mm*300mm



6. Ordering information

DWDM Mux/Demux Module

GWM	-	XX	X	X	XX	XX	XX	XX	-	X	X
		Port Configu ration	WDM Type	Module Type	Initial Wavelength	Package Type	Fiber Type	Output Fiber Length		Input Connector	Output Connector
G=Gigalight		01=1*1	X=100G DWDM	M=Mux	01=C01	PS=100X80X10	09=0.9mm loose tube	05=0.5m		0=None	0=None
W=WDM		02=1*2	Y=200G DWDM	D=Demux	02=C02	PM=120X80X18	20=2.0mm loose tube	10=1.0m		1=FC/UPC	1=FC/UPC
M=Module		03=1*3		1=Mux& 1310nm port	...	PL=140X115X18	30=3.0mm loose tube	12=1.2m		2=FC/APC	2=FC/APC
				2=Demux& 1310nm port	72=C72	LX=LGX box metal		15=1.5m		3=SC/UPC	3=SC/UPC
		18=1*18		3=Mux&Upgrade		19=19"1U Rack-Mount		XX= Customized		4=SC/APC	4=SC/APC
				4= Demux&Upgrade		XX=Customized				5=LC/UPC	5=LC/UPC
				5=Mux&1310nm port&Upgrade						6=LC/APC	6=LC/APC
				6=Demux& 1310nm port& Upgrade						XX= Customized	XX= Customized
				7=Mux& 1310nm port& Monitor							
				8=Demux& 1310nm port& Monitor							

DWDM Optical Add/Drop Module

GADM	-	X	XX	XX	XX	XX	-	X	X	X
		Channel Number	Initial Wavelength	Package Type	Fiber Type	Output Fiber Length		Input Connector	Add/Drop Port Connector	Express Port Connector
G=Gigalight		1=1CH	01=C01	PS=100X80X10	09=0.9mm loose tube	05=0.5m		0=None	0=None	0=None
A/D= Optical Add/Drop		2=2CH	02=C02	PM=120X80X18	20=2.0mm loose tube	10=1.0m		1=FC/UPC	1=FC/UPC	1=FC/UPC
		4=4CH	...	PL=140X115X18	30=3.0mm loose tube	12=1.2m		2=FC/APC	2=FC/APC	2=FC/APC
M=Module		8=8CH	72=C72	LX=LGX box metal		15=1.5m		3=SC/UPC	3=SC/UPC	3=SC/UPC
				19=19"1U Rack-Mount		XX= Customized		4=SC/APC	4=SC/APC	4=SC/APC
				XX=Customized				5=LC/UPC	5=LC/UPC	5=LC/UPC
								6=LC/APC	6=LC/APC	6=LC/APC
								XX= Customized	XX= Customized	XX= Customized

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