

Optical Add and Drop Multiplexers (OADMs), in the 100GHz and 200GHz spacing, utilize proven thin-film filter technology—which has outstanding performance specifications. The standard ITU channel sets are available in one or more channel configurations. All OADMs have passed the Bellcore GR1209 and GR1221 quality requirements.

OADM

100GHz Optical Add/Drop Multiplexer
1-Channel 100GHz Optical Add/Drop Multiplexer
2-Channel 100GHz Optical Add/Drop Multiplexer
200GHz Optical Add/Drop Multiplexer
1-Channel 200GHz Optical Add/Drop Multiplexer
2-Channel 200GHz Optical Add/Drop Multiplexer

100GHz OPTICAL ADD/DROP MULTIPLEXER



Features

- 100GHz channel spacing
- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free



Applications

- Long-haul optical fiber network
- Metro optical fiber network
- CATV transmission systems
- EDFA system



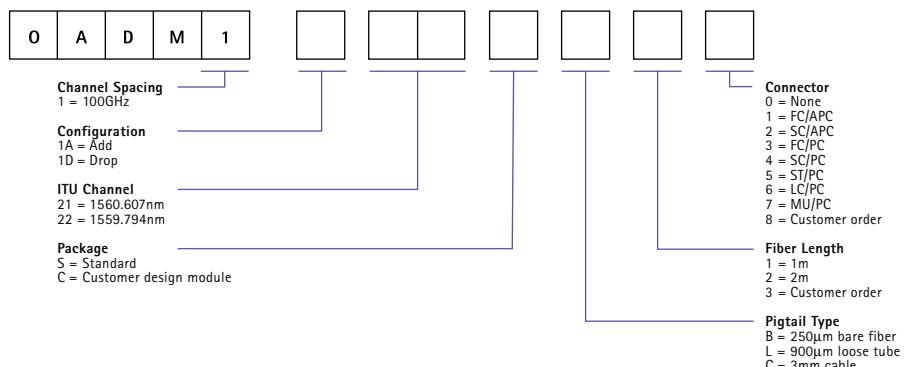
Specifications

OADM 1A (D)	Add-Ch.	Drop-Ch.
Center wavelength (nm)	ITU Grid (C-band: 1560.61 ~ 1529.55) (L- band: 1570.42 ~ 1603.17)	
Center wavelength difference (nm)	<= 0.1	
Channel spacing (GHz)	100 (~ 0.8nm)	
ITU Channel passband (nm)	(min.) ± 0.11 @ -0.5dB	(min.) ± 0.11 @ -1.0dB
Passband ripple (dB)	max.: 0.5	max.: 1.0
Add/Drop channel insertion loss (dB)	<= 1.8	<= 2.0
Adjacent channel isolation (dB)	>= 20	>= 25
Non-adjacent channel isolation (dB)	>= 45	
Express channel insertion loss (dB)	max.: 0.5, typ.: 0.35	
Express channel isolation (dB)	>= 10	
Directivity (dB) (all ports)	>= 55	
Return loss (dB) (all ports)	>= 50	
Insertion loss temperature sensitivity (dB / °C)	<= 0.005	
Wavelength temperature sensitivity (nm / °C)	<= 0.001	
Polarization dependence loss (PDL) (dB)	<= 0.1	
Polarization mode dispersion (PMD) (ps)	<= 0.1	
Max. operating power (mW)	<= 300	
Max. tensile load (N)	5	
Operating temperature range (°C)	0 ~ 65	
Storage temperature range (°C)	-40 ~ +85	
Package dimension (mm)	Bare fiber: 5.5 (D) x 32 (L); Loose tube: 5.5 (D) x 36 (L)	

All specifications referenced are without connectors.

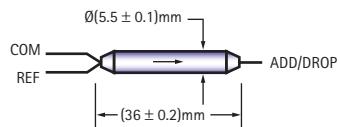


Ordering Information

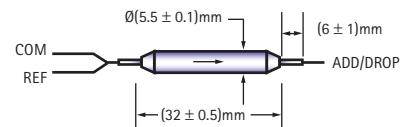


Dimensions

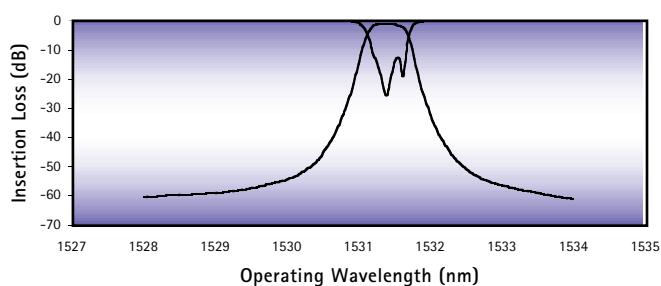
L: 900 μ m loose tube



B: 250 μ m bare fiber



Transmission Spectrum



1-CHANNEL 100GHz OPTICAL ADD/DROP MULTIPLEXER



Features

- 100GHz channel spacing
- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free



Applications

- Long-haul optical fiber network
- Metro optical fiber network
- CATV transmission systems
- EDFA system



Specifications

OADM11C

Add-Ch.

Drop-Ch.

Center wavelength (nm)	ITU Grid (C - band: 1560.61 ~ 1529.55) (L - band: 1570.42 ~ 1603.17)	
Center wavelength difference (nm)	<= 0.1	
Channel spacing (GHz)	100 (~ 0.8nm)	
ITU Channel passband (nm)	(min.) ± 0.11 @ -0.5dB	(min.) ± 0.11 @ -1.0dB
Add/Drop channel insertion loss (dB)	<= 1.8	<= 2.0
Adjacent channel isolation (dB)	> 20	> 25
Non-adjacent channel Isolation (dB)		> 45
Passband ripple (dB)	max.: 0.5	max.: 1.0
Express channel insertion loss (dB)	max.: 0.9, typ.: 0.6	
Express channel isolation (dB)	>= 20	
Directivity (dB) (all ports)	>= 55	
Return loss (dB) (all ports)	>= 50	
Insertion loss temperature sensitivity (dB / °C)	< 0.005	
Wavelength temperature sensitivity (nm / °C)	< 0.001	
Polarization dependence loss (PDL) (dB)	<= 0.1	
Polarization mode dispersion (PMD) (ps)	<= 0.1	
Max. operating power (mW)	<= 300	
Max. tensile load (N)	5	
Operating temperature range (°C)	0 ~ +65	
Storage temperature range (°C)	-40 ~ +85	
Package dimension (mm)	(L) 102 x (W) 76 x (H) 10.7	

All specifications referenced are without connectors.



Ordering Information

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Channel Spacing
1 = 100GHz

Configuration
1C = Add and drop
one channel

ITU Channel
21 = 1560.607nm
22 = 1559.794nm

Package
S = Standard
C = Customer design module

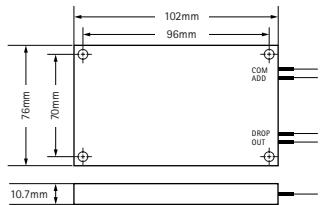
Connector
0 = None
1 = FC/APC
2 = SC/APC
3 = FC/PC
4 = SC/PC
5 = ST/PC
6 = LC/PC
7 = MU/PC
8 = Customer order

Fiber Length
1 = 1m
2 = 2m
3 = Customer order

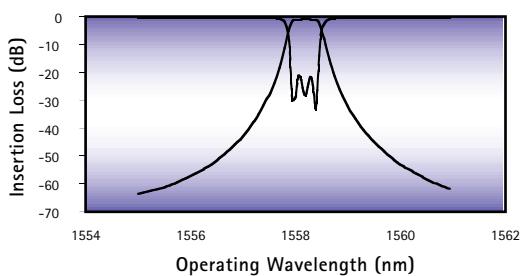
Pigtail Type
B = 250 μ m bare fiber
L = 900 μ m loose tube
C = 3mm cable



Dimensions



Transmission Spectrum



2-CHANNEL 100GHz OPTICAL ADD/DROP MULTIPLEXER



Features

- 100GHz channel spacing
- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free



Applications

- Long-haul optical fiber network
- Metro optical fiber network
- CATV transmission systems
- EDFA system



Specifications

OADM12C

Add-Ch.

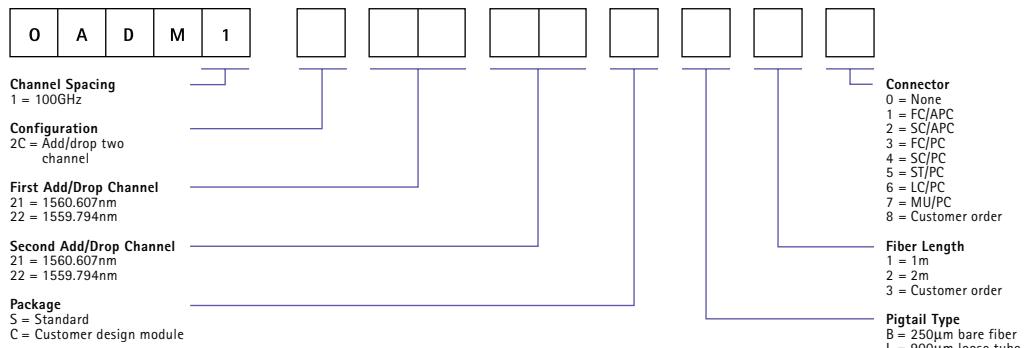
Drop-Ch.

Center wavelength (nm)	ITU Grid (C - band: 1560.61 ~ 1529.55) (L - band: 1570.42 ~ 1603.17)	
Center wavelength difference (nm)	<= 0.1	
Channel spacing (GHz)	100 (~ 0.8nm)	
Channel passband (nm)	(min.) ± 0.11 @ -0.5dB	(min.) ± 0.11 @ - 1.0dB
Add/Drop channel insertion loss (dB)		
Com - Drop1; Add1 - Out (dB)	<= 2.0	
Com - Drop2; Add2 - Out (dB)	<= 2.5	
Adjacent channel isolation (dB)	> 20	> 25
Non-adjacent channel Isolation (dB)	> 45	
Passband ripple (dB)	max.: 0.5	max.: 1.0
Express channel insertion loss (dB)	max.: 1.8, typ.: 1.2	
Express channel isolation (dB)	>= 20	
Directivity (dB) (all ports)	>= 55	
Return loss (dB) (all ports)	>= 50	
Insertion loss temperature sensitivity (dB / °C)	< 0.005	
Wavelength temperature sensitivity (nm / °C)	< 0.001	
Polarization dependence loss (PDL) (dB)	<= 0.1	
Polarization mode dispersion (PMD) (ps)	<= 0.1	
Max. operating power (mW)	<= 300	
Max. tensile load (N)	5	
Operating temperature range (°C)	0 ~ +65	
Storage temperature range (°C)	-40 ~ +85	
Package dimension (mm)	(L) 127 x (W) 89 x (H) 10.7	

All specifications referenced are without connectors.



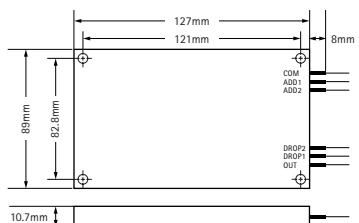
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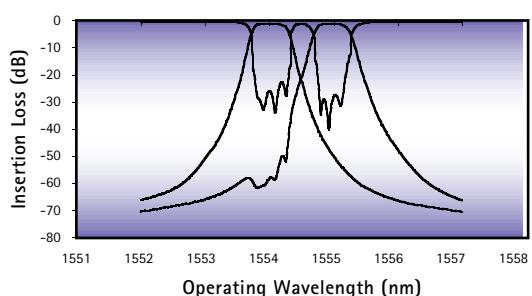
Note: More add/drop channels are available upon request.



Dimensions



Transmission Spectrum



200GHz OPTICAL ADD/DROP MULTIPLEXER



Features

- 200GHz channel spacing
- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free



Applications

- Long-haul optical fiber network
- Metro optical fiber network
- CATV transmission systems
- EDFA system



Specifications

OADM 2A (D)

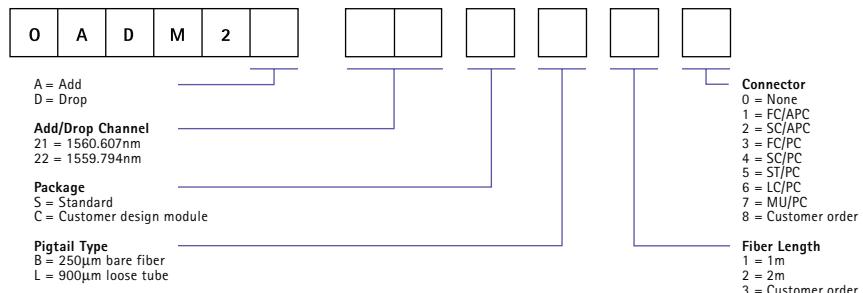
Add / Drop-Ch.

Center wavelength (nm)	ITU Grid (C-band: 1560.61 ~ 1529.55) (L- band: 1570.42 ~ 1603.17)
Center wavelength difference (nm)	<= 0.1
Channel spacing (GHz)	200 (~ 1.6nm)
ITU Channel passband (nm)	> 0.5
Add/Drop channel insertion loss (dB)	max.: 1.0, typ.: 0.8
Adjacent channel isolation (dB)	>= 25
Non-adjacent channel isolation (dB)	>= 45
Passband ripple (dB)	max.: 0.5
Express channel insertion loss (dB)	max.: 0.6, typ.: 0.4
Express channel isolation (dB)	>= 12
Directivity (dB) (all ports)	>= 55
Return loss (dB) (all ports)	>= 50
Insertion loss temperature sensitivity (dB / °C)	<= 0.005
Wavelength temperature sensitivity (nm / °C)	<= 0.002
Polarization dependence loss (PDL) (dB)	<= 0.1
Polarization mode dispersion (PMD) (ps)	<= 0.1
Max. operating power (mW)	<= 300
Max. tensile load (N)	5
Operating temperature range (°C)	0 ~ 65
Storage temperature range (°C)	-40 ~ +85
Package dimension (mm)	Bare fiber: 5.5 (D) x 32 (L); Loose tube: 5.5 (D) x 36 (L)

All specifications referenced are without connectors.

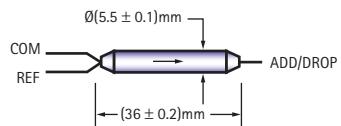


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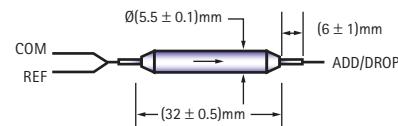


Dimensions

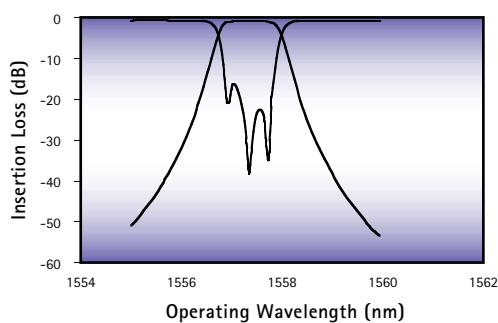
L: 900 μ m loose tube



B: 250 μ m bare fiber



Transmission Spectrum



1-CHANNEL 200GHz OPTICAL ADD/DROP MULTIPLEXER



Features

- 200GHz channel spacing
- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free



Applications

- Long-haul optical fiber network
- Metro optical fiber network
- CATV transmission systems
- EDFA system



Specifications

OADM21C

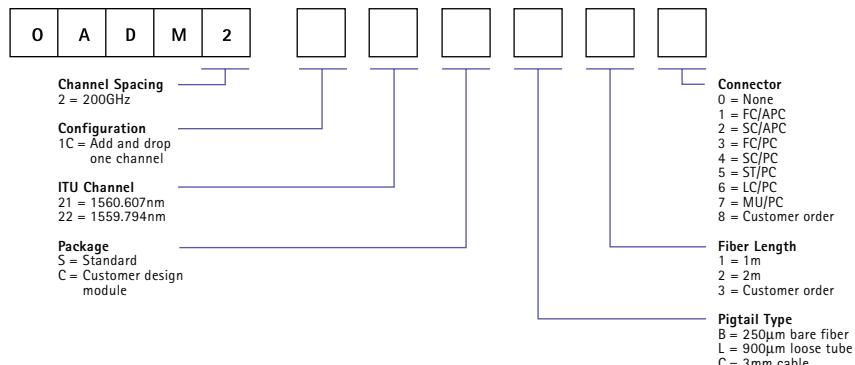
Add / Drop-Ch.

Center wavelength (nm)	ITU Grid (C-band: 1560.61 ~ 1529.55) (L- band: 1570.42 ~ 1603.17)
Center wavelength difference (nm)	<= 0.1
Channel spacing (GHz)	200 (~ 1.6nm)
Channel passband (nm) @ 0.5dB	>= 0.5
Add/Drop channel insertion loss (dB)	max.: 1.2, typ.: 0.8
Adjacent channel isolation (dB)	> 25
Non-adjacent channel Isolation (dB)	> 45
Passband ripple (dB)	max.: 0.5
Express channel insertion loss (dB)	max.: 1.0, typ.: 0.8
Express channel isolation (dB)	>= 20
Directivity (dB) (all ports)	>= 55
Return loss (dB) (all ports)	>= 50
Insertion loss temperature sensitivity (dB / °C)	< 0.005
Wavelength temperature sensitivity (nm / °C)	< 0.002
Polarization dependence loss (PDL) (dB)	<= 0.1
Polarization mode dispersion (PMD) (ps)	<= 0.1
Max. operating power (mW)	<= 300
Max. tensile load (N)	5
Operating temperature range (°C)	0 ~ +65
Storage temperature range (°C)	-40 ~ +85
Package dimension (mm)	(L) 102 x (W) 76 x (H) 10.7

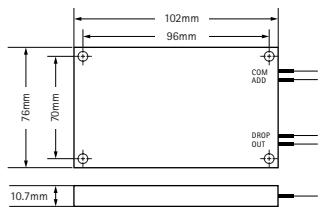
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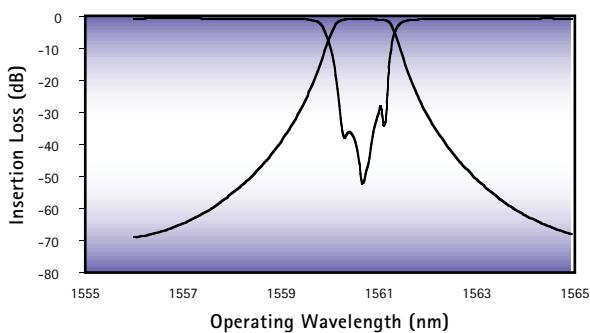
Ordering Information



Dimensions



Transmission Spectrum



2-CHANNEL 200GHz OPTICAL ADD/DROP MULTIPLEXER



Features

- 200GHz channel spacing
- Low insertion loss, high isolation
- High stability and reliability
- Optical path epoxy free



Applications

- Long-haul optical fiber network
- Metro optical fiber network
- CATV transmission systems
- EDFA system



Specifications

OADM22C

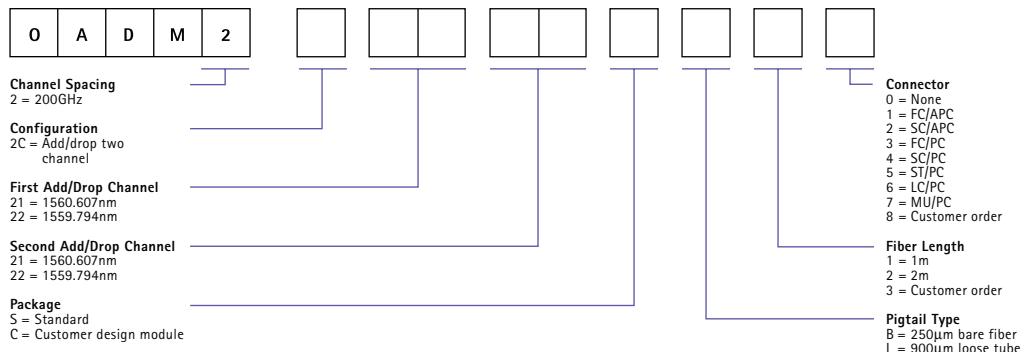
Add / Drop-Ch.

Center wavelength (nm)	ITU Grid (C-band: 1560.61 ~ 1529.55) (L- band: 1570.42 ~ 1603.17)
Center wavelength difference (nm)	<= 0.1
Channel spacing (GHz)	200 (~ 1.6nm)
Channel passband (nm) @ 0.5dB	>= 0.5
Add/Drop channel insertion loss (dB)	
Com - Drop1; Add1 - Out (dB)	<= 1.2
Com - Drop2; Add2 - Out (dB)	<= 1.8
Adjacent channel isolation (dB)	> 25
Non-adjacent channel Isolation (dB)	> 45
Passband ripple (dB)	max.: 0.5
Express channel insertion loss (dB)	max.: 1.8, typ.: 1.2
Express channel isolation (dB)	>= 20
Directivity (dB) (all ports)	>= 55
Return loss (dB) (all ports)	>= 50
Insertion loss temperature sensitivity (dB / °C)	< 0.005
Wavelength temperature sensitivity (nm / °C)	< 0.002
Polarization dependence loss (PDL) (dB)	<= 0.1
Polarization mode dispersion (PMD) (ps)	<= 0.1
Max. operating power (mW)	<= 300
Max. tensile load (N)	5
Operating temperature range (°C)	0 ~ +65
Storage temperature range (°C)	-40 ~ +85
Package dimension (mm)	(L) 127 x (W) 89 x (H) 10.7

All specifications referenced are without connectors.



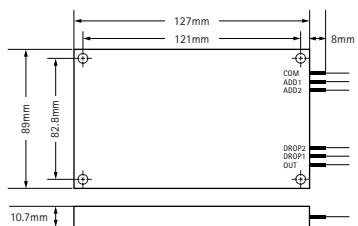
Ordering Information



Note: More add/drop channels are available upon request.



Dimensions



Transmission Spectrum

