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RAYCORE

Q3-S156 V4.1E

Specification of FWDM 1310 & 1490/1550nm for LGX Module

Part Number: AWDL-x0xx-xxxxx-00



This product is a FWDM device with pass wavelength 1260~1360 & 1480~1500 nm and reflect wavelength 1540~1560 nm or pass wavelength 1540~1560 nm and reflect wavelength 1260~1360 & 1480~1500 nm build in LGX type box.

Specifications: Optical Specifications-High Isolation T1310/1490 R1550 nm

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
1	Pass band Wavelength Range	λ_p	1260-1360 & 1480-1500			nm	
2	Reflection band Wavelength Range	λ_R	1540-1560			nm	
3	Insertion Loss	IL	Com to Ref @ λ_p		1.2	dB	1
			Com to Pass @ λ_R		1.2		
4	Isolation	IS	Com to Pass @ λ_R		40	dB	
			Com to Ref @ λ_p		40		
5	Pass Ripple	RIP			0.5	dB	
6	Polarization Dependent Loss	PDL			0.2	dB	
7	Return Loss	RL	45			dB	
8	Directivity	DIR	50				
9	Power Handling				300	mW	

Note:

1. Insertion Loss is including connectors.

Optical Specifications-High Isolation T1550 R1310/1490/1550 nm

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
1	Pass band Wavelength Range	λ_p	1540-1560			nm	
2	Reflection band Wavelength Range	λ_R	1260-1360 & 1480-1500			nm	
3	Insertion Loss	IL	Com to Ref @ λ_p		1.2	dB	1
			Com to Pass @ λ_R		1.2		
4	Isolation	IS	Com to Pass @ λ_R		40	dB	
			Com to Ref @ λ_p		40		
5	Pass Ripple	RIP			0.5	dB	
6	Polarization Dependent Loss	PDL			0.2	dB	
7	Return Loss	RL	45			dB	
8	Directivity	DIR	50				
9	Power Handling				300	mW	

Note:

1. Insertion Loss is including connectors.



Optical Specifications-Standard Isolation T1310/1490 R1550 nm

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
1	Pass band Wavelength Range	λ_p	1260-1360 & 1480-1500			nm	
2	Reflection band Wavelength Range	λ_r	1540-1560			nm	
3	Insertion Loss	Com to Ref @ λ_p			1.2	dB	1
		Com to Pass @ λ_r			1.2		
4	Isolation	Com to Pass @ λ_p	30			dB	
		Com to Ref @ λ_p	15				
5	Pass Ripple	RIP			0.5	dB	
6	Polarization Dependent Loss	PDL			0.2	dB	
7	Return Loss	RL	45			dB	
8	Directivity	DIR	50				
9	Power Handling				300	mW	

Note:

1. Insertion Loss is including connectors.

Optical Specifications-Standard Isolation T1550 R1310/1490 nm

Item	Parameters	Symbol	Min	Typ	Max	Units	Note
1	Pass band Wavelength Range	λ_p	1540-1560			nm	
2	Reflection band Wavelength Range	λ_r	1260-1360 & 1480-1500			nm	
3	Insertion Loss	Com to Ref @ λ_p			1.2	dB	1
		Com to Pass @ λ_r			1.2		
4	Isolation	Com to Pass @ λ_p	30			dB	
		Com to Ref @ λ_p	15				
5	Pass Ripple	RIP			0.5	dB	
6	Polarization Dependent Loss	PDL			0.2	dB	
7	Return Loss	RL	45			dB	
8	Directivity	DIR	50				
9	Power Handling				300	mW	

Note:

1. Insertion Loss is including connectors.

Environment Conditions

Item	Parameter	Symbol	Min	Typ	Max	Units	Note
1	Operating Temperature	Top	0		50		1
2	Storage Temperature	Tstor	-40		85		
3	Operating Relative Humidity	RHop	5		95	%	2
4	Storage Relative Humidity	RHstor	5		95	%	

Note:

1. Below 0 degree C, Sample Testing Only. Data Not Measured for Volume Production.
2. Not to exceed industrial standard of 0.024 kg water per kg of dry air. Under Non-condensing Conditions.



Mechanical Specifications

Item	Parameters		Min	Typical	Max	Units	Note
1	Dimensions		LGX 28.5 x 129 x 150			mm	
2	Fiber Type		SMF-28				
3	Connector Type	Com. & Pass Port	SC/APC or Customer Specified				
		Reflect Port	SC/APC or Customer Specified				

Ordering Information

Part Number	Description
AWDL-H0B2-00000-00	FTTx Hi-Isolation FWDM, T1310/1490 R1550, SC/APC, LGX BOX
AWDL-H0A2-00000-00	FTTx Hi-Isolation FWDM, T1550 R1310/1490, SC/APC, LGX BOX
AWDL-F0B2-00000-00	FTTx Standard Isolation FWDM, T1310/1490 R1550, SC/APC, LGX BOX
AWDL-F0A2-00000-00	FTTx Standard Isolation FWDM, T1550 R1310/1490, SC/APC, LGX BOX
AWDL-F0AJ-00000-00	FTTx Standard Isolation FWDM, T1550 R1310/1490, Com-SC/APC, Pass-SC/APC, Ref-SC/UPC, LGX BOX

