

CORNING

Lightguide Distribution Center (LDC) DWDM Module, LGX-Compatible, 20 Channel, 40-59

Corning offers a variety of DWDM modules compatible with the LDC family connector housings. Components are compliant to Telcordia requirements, including GR-1209, GR-1221, and others as appropriate to the specification. The modules are routed directly to the LDC family housing.



Part Number: DKXB31A204000ZZB50

Features	Benefits
Accommodates standard connector types	Reduces inventory
Individual connector adapters	Enables easy connector access
Integrated fiber routing and bend-radius protection	Minimizes insertion loss

Specifications

General Specifications	
Application	CATV environments, Carrier networks
Product Type	DWDM modules
Fiber Category	Single-mode (OS2)

Mechanical Specifications

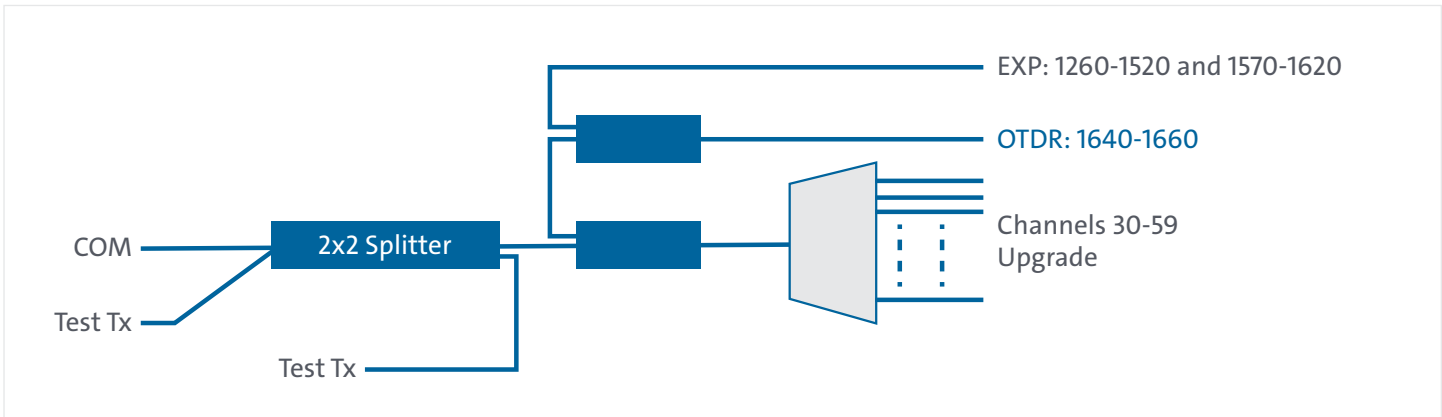
Connector Configuration	LC APC
Housing Color	Platinum
Housing Type	LDC
Package Dimensions	1U LGX, extended height
Tensile Load (N)	Minimum 5
Fiber Type	Corning® SMF-28e+® or equivalent
ITU Channels	40-59

Optical Performance Characteristics

Channel Spacing	100 GHz		
ITU Channels	Channels 40-59		
Parameter	Minimum	Typical	Maximum
DWDM Passband Width (nm)	$\lambda_{ITU} \pm 0.125$		
Upgrade Port Wavelength (nm)	Unused channels within Channels 20-59		
Express Port Wavelength (nm)	1260-1520 and 1570-1620		
OTDR Port Wavelength (nm)	1640-1660		
DWDM Channel Insertion Loss (dB)			4.5
Upgrade Port Insertion Loss (dB)			4.1
Express Port Insertion Loss (dB)			2.5
OTDR Port Insertion Loss (dB)			2.5
DWDM Passband Ripple (dB)			0.5
DWDM Insertion Loss Uniformity (dB)			2.0
Test Point Insertion Loss (dB)			15.5
DWDM Adjacent Channel Isolation (dB)	30		
DWDM Nonadjacent Channel Isolation (dB)	45		
Upgrade Port Isolation (dB)	12		
Express Channel Isolation (dB)	12		
OTDR Port Isolation (dB)	30		
Return Loss (dB)	45		
DWDM and OTDR Port Directivity (dB)	55		
Express and Upgrade Port Directivity (dB)	45		
PDL (dB)			0.30
PMD (ps)			0.25
Optical Power (mW)			300

Environmental Specifications

Operating Temperature Range (°C)	-40		85
Operating Humidity (% RH)	5		95
Storage Temperature (°C)	-40		85



Optical Layout

Ordering Information

Description	Part Number
DWDM 100 GHz 20-Channel DWDM, UPG, express, OTDR, dual test, LGX	DKXB31A20400ZZB50

Shipping Information

Units Per Delivery
1/1



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