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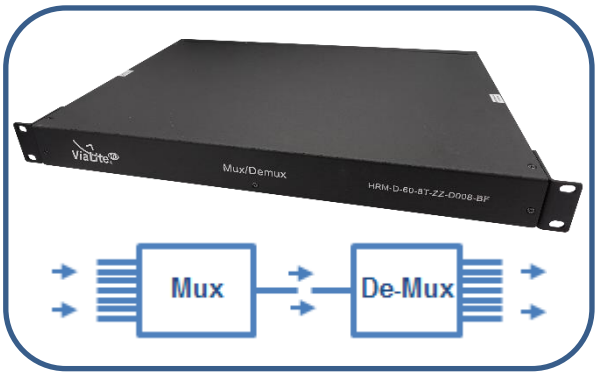
ViaLiteHD – CWDM/DWDM Mux/De-Mux

CWDM/DWDM Mux/De-Mux

- **8 & 16 Way CWDM Mux/De-Mux**
- **8, 16 & 32 Way DWDM Mux/De-Mux**
- **Customer specific channels**
- **Compatible with any RF frequency**
- **1U rack chassis**
- **Standard 5-year warranty**



The ***ViaLiteHD*** range of CWDM and DWDM Multiplexers and De-Multiplexers allow multiple channels, travelling in either direction to be simultaneously combined over a single fibre.

The ***ViaLiteHD*** Multiplexers and De-Multiplexers are available in 8 to 32-way variants and boast a low insertion loss. They are available as part of a Ka-Band diversity system, long distance system or as a stand-alone product.

ViaLite Multiplexers and De-Multiplexers utilize Thin Film Filtering (8 & 16-way) and Athermal Arrayed Waveguide Grating (32-way) technologies to provide a flat channel bandwidth response, flexible channel configuration and low insertion loss with high isolation. This system has the advantage of a flexible channel configuration and modularized design making it convenient for system upgrades and expansions.

Features/Options

- 19” Rack mountable
- Compact Design
- Passive device
- High channel isolation
- Low Insertion loss
- High stability and reliability
- CWDM 1270 nm - 1610 nm
- 100 GHz channel spacing (50/200/400 GHz also possible)
- Custom channel numbering
- C-Band 1528.77 nm – 1563.86 nm (C17-C61)

Applications

- Fixed satcom teleports
- Ka-Band diversity systems
- L-Band medium & long distance links
- Oil and gas platforms
- Networks with limited fiber availability

Formats

- 1U Chassis

Due to our policy of continuing product development, these specifications are subject to change and improvement without notice.

Technical Specification

Performance			CWDM-TFF			DWDM-TFF (100GHZ Filter Elements)			DWDM-AAWG		
			Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.
Centre Wavelength Accuracy		(nm)							-0.05		0.05
Channel Bandwidth (-0.5dB), Passband		(nm)	±7.5			±0.11			-		
Channel Bandwidth (-1dB), Passband		(nm)	-		-	-		-	±0.2		
Channel Bandwidth (-3dB), Passband		(nm)	-		-	-		-	±0.4		
Insertion Loss Over Passband (8-channel)		(dB)			3.0			2.5			-
Insertion Loss Over Passband (16-channel)		(dB)			3.8			4.5			-
Insertion Loss Over Passband (32-channel)		(dB)			-			-			4.2
Adjacent Channel Spacing		-		±20nm			±100GHz			±100GHz	
Non-Adjacent Channel Spacing		-	±40nm			±200GHz			±200GHz		
Isolation	Adjacent Channel	(dB)	30			30			23		
	Non-Adjacent Channel	(dB)	40			40			29		
Channel Uniformity		(dB)			1.0	-		1.0			1.5
Passband Ripple		(dB)			0.5			0.5			1.0
Polarization Dependent Loss (PDL)		(dB)			0.1			0.1			
Polarization Mode Dispersion (PMD)		(ps)			0.1			0.1			0.5
Directivity		(dB)	50			50					
Return Loss		(dB)	45			45					
Power Handling		(dBm)	24.8			27.0					
Operating temperature		(°C)	-5		65	-5		65	-5		65
Storage temperature		(°C)	-40		85	-40		85	-40		85
Height (1U)		(mm)		43.6			43.6			43.6	
Depth		(mm)		300.0			300.0			300.0	
Width – Front Panel		(mm)		482.6			482.6			482.6	
Width – Rear		(mm)		438.0			438.0			438.0	