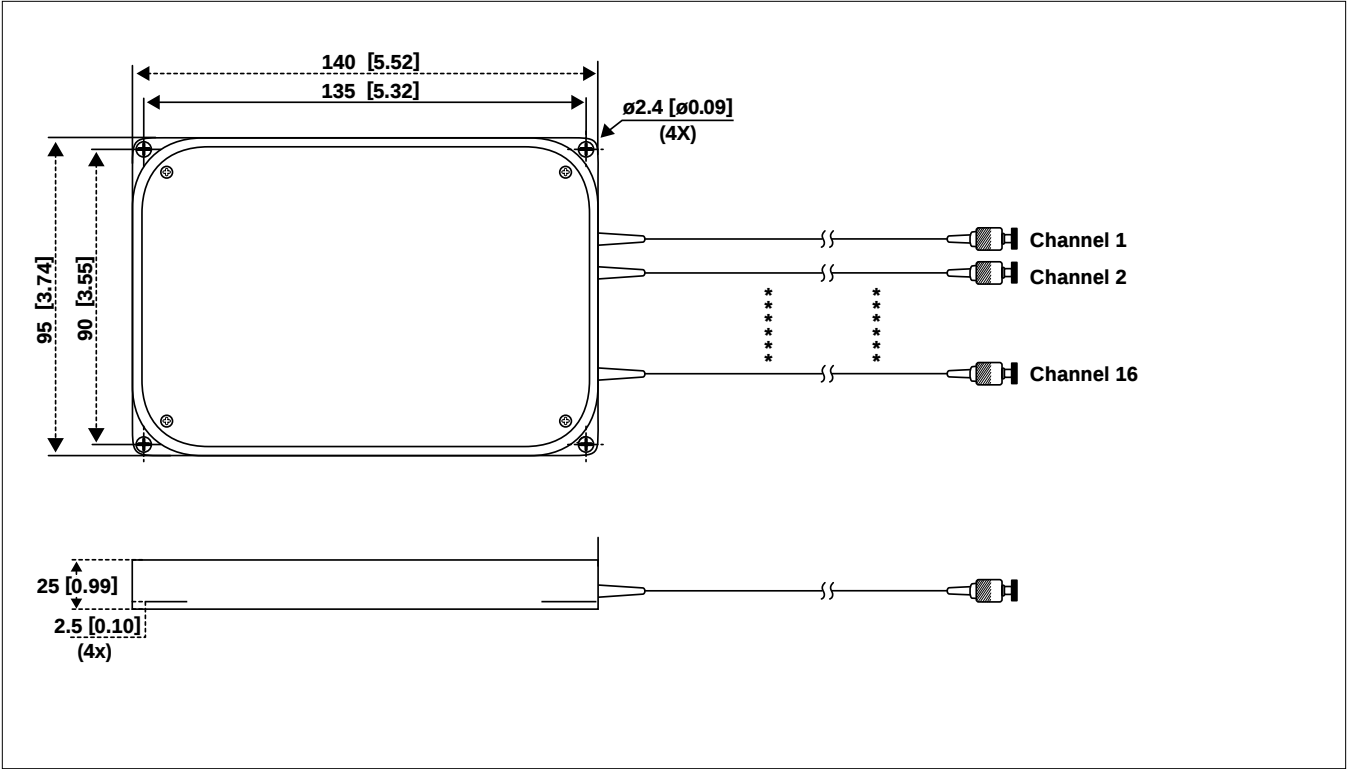
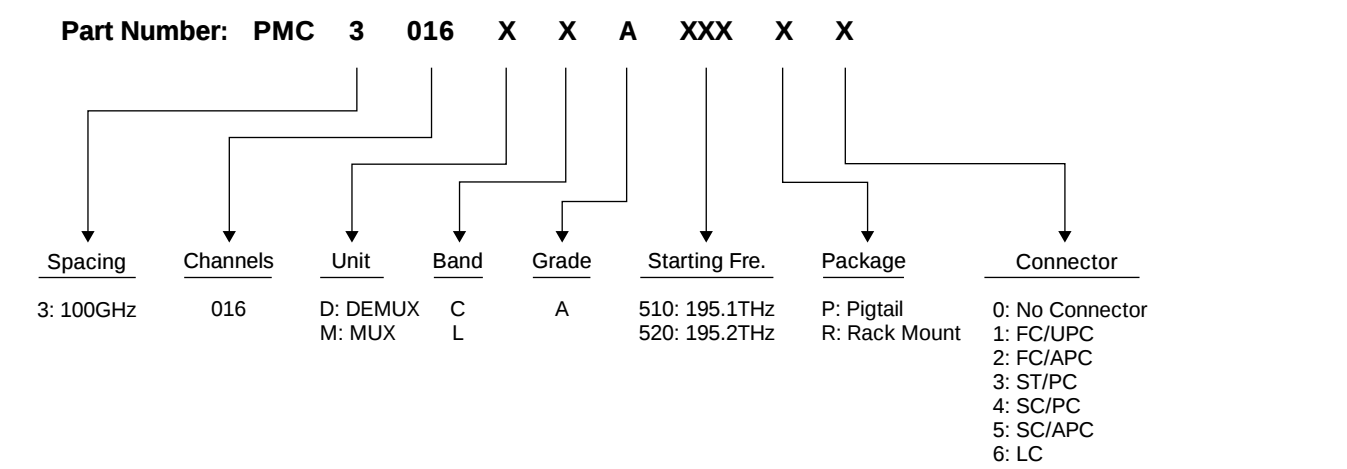


Mechanical Package Drawing



Order Information



PowerMux™
Channel Processor

16 Channel Wavelength Channel Processor
PMC Series

Avanex PMC Series uses an innovative patent pending technology to provide 100 GHz channel spacing dense WDM MUX/DEMUX function with low insertion loss, low ripple passband, and high channel isolation.

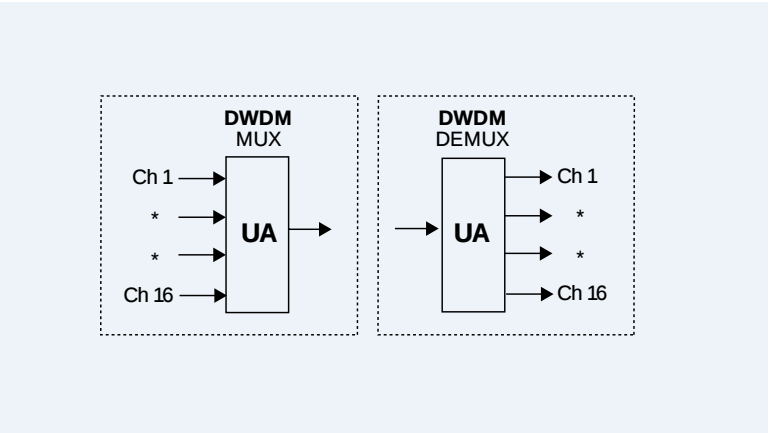
Features

- 100 GHz Channel Spacing
- 16 Channel Module
- Low Insertion Loss
- High Channel Isolation
- Epoxy-Free Optical Path
- Excellent Stability and Reliability

Applications

- 16 Channel DWDM MUX
- 16 Channel DWDM DEMUX
- 100 GHz Channel DWDM Add/Drop

Functional Diagram

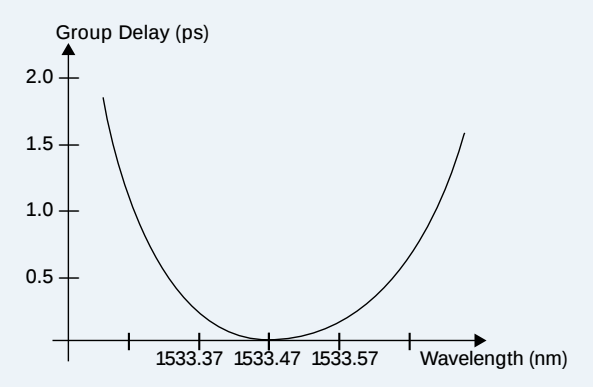
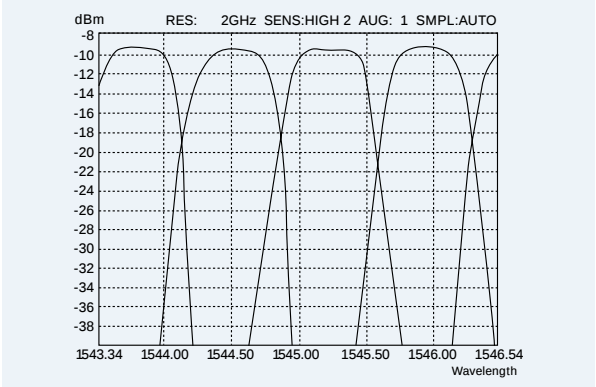


Specifications

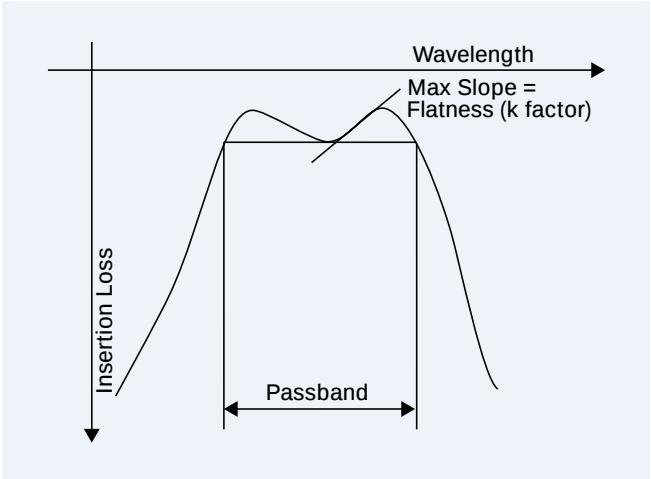
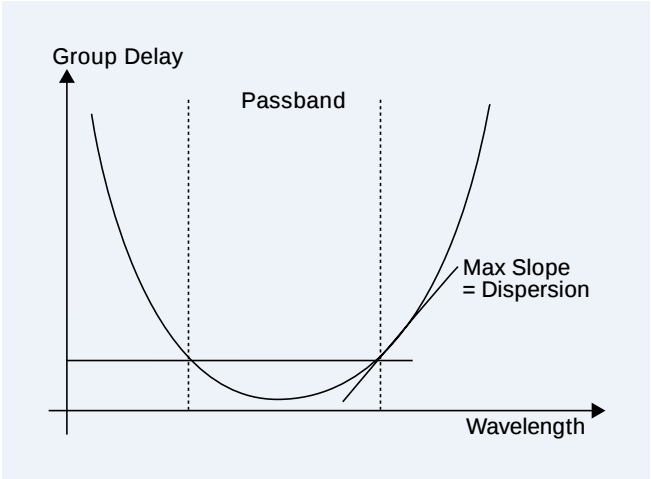
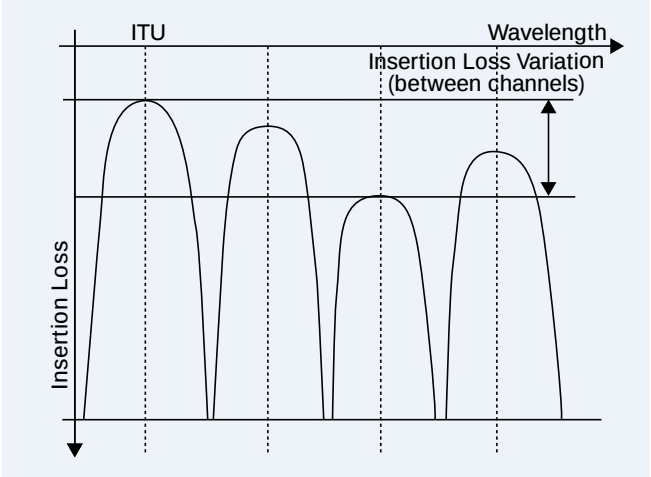
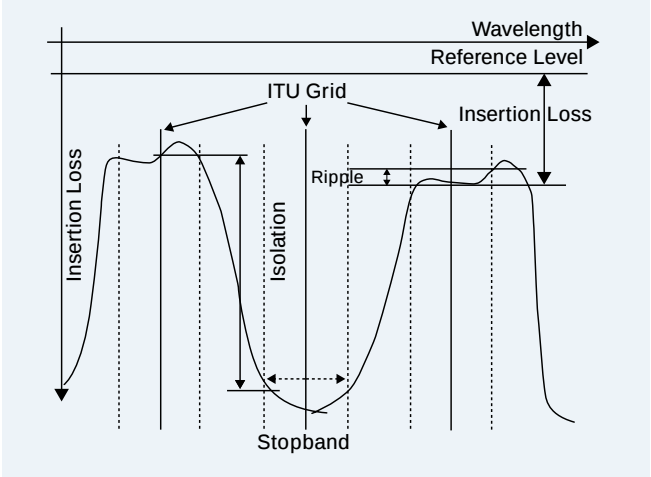
Parameters		Specifications		
		Min	Typ	Max
Channel Number		16 Channels, 100 GHz (0.8 nm) Spacing		
Channel Center Wavelength λ_c (nm)	ITU Grid (C Band)	1528 – 1565		
	ITU Grid (L Band)	1570 – 1610		
Channel Passband (nm)	- 0.5 dB Bandwidth	$\lambda_c \pm 0.12$		
	- 3.0 dB Bandwidth	$\lambda_c \pm 0.25$		
Insertion Loss (dB)	Ch1, ... Ch 16↔Common		5.0	6.0
Insertion Loss Variation (dB)	Between Channels		± 1.0	± 1.5
	Within Channel Passband		± 0.2	± 0.25
Passband Flatness(k)(dB/nm)		-3		3
Cross-Talk (dB)	Between Channels		-32	-25
	Total Cross-Talk		-23	-21
Polarization Dependent Loss (dB)	Within Channel Passband			0.5
Group Delay (ps)		-10		10
Polarization Mode Dispersion (ps)	Within Channel Passband			0.5
Dispersion (ps/nm)*		-30		30
Return Loss (dB)	All Ports	45	55	
Directivity (dB)	Ch1, Ch 16 Ports	65	70	
Optical Power Handling (dBm)		24		
Operating Temperature (°C)		0		65
Storage Temperature (°C)		-40		85
Connector Type		LC or SC		
Package Dimension (mm)		140 (L) x 95 (W) x 25 (H)		

*For 100GHz spacing. Dispersion depends on spacing.

Key Performance



Definition of Parameters



Application Configuration

