



passive components

Description

Renka® SmartCONNECT™ Interleavers are passive, low dispersion devices that are used to increase the channel density in a DWDM system. Interleavers can be used in a MUX configuration to combine two streams of periodic optical signals into one stream at half the original channel spacing. In a DEMUX configuration, one stream of periodic optical signals are split into two complimentary streams at twice the original channel spacing.

This provides system engineers an economical method of expanding the system capacity, using existing, mature DWDM technologies. Renka Interleavers are designed and tested to Belcore GR-1209 performance standards.

100/200 GHz and 50/100 GHz Interleavers



Applications

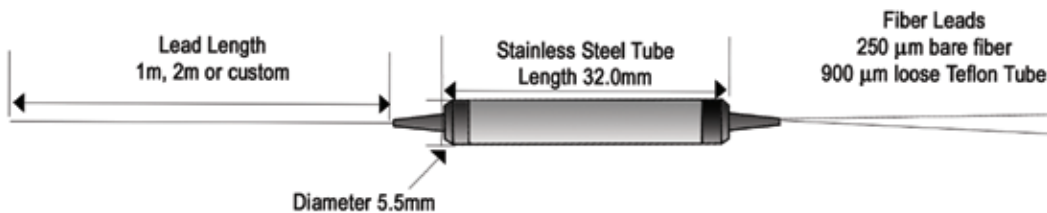
- WDM Systems
- OADM
- Optical Routers

Benefits

- Low Insertion Loss
- Highly Stable and Reliable
- Low Dispersion
- Wide Bandwidth

Package Dimensions

Light/Medium Duty



100/200 GHz

	UNIT		
Operating Wavelength Range (C Band)	nm	1529.55 – 1561.42	
Operating Frequency Range (C Band)	THz	196.000 – 192.000	
Input Channel Spacing	GHz	100	
Output Channel Spacing	GHz	200	
Center Frequency Accuracy	GHz	<0.5	
Center Wavelength Accuracy	nm	0.05	
Insertion Loss	dB	<1.0	
Ripple	dB	<0.25	
Insertion Loss Uniformity	dB	<0.3	
Bandwidth	@ 0.5 db	nm	>0.4
	@ 25 db	nm	<1.32
PDL	dB	<0.2	
PMD	ps	<0.15	
Optical Return Loss	dB	>55	
Directivity	dB	>60	
Operating Temperature	°C	0° to +65°C	

50/100 GHz

	UNIT		
Operating Wavelength Range (C Band)	nm	1529.55 – 1561.42	
Operating Frequency Range (C Band)	THz	196.000 – 192.000	
Input Channel Spacing	GHz	100	
Output Channel Spacing	GHz	200	
Center Frequency Accuracy	GHz	<0.5	
Center Wavelength Accuracy	nm	0.05	
Insertion Loss	dB	<1.0	
Ripple	dB	<0.25	
Insertion Loss Uniformity	dB	<0.3	
Bandwidth	@ 0.5 db	nm	>0.4
	@ 25 db	nm	<1.32
PDL	dB	<0.2	
PMD	ps	<0.15	
Optical Return Loss	dB	>55	
Directivity	dB	>60	
Operating Temperature	°C	0° to +65°C	

Ordering Information

INT-□□-□□-□

Wavelength Band
C: C Band

Channel Spacing
1: 100/200 GHz
2: 50/100 GHz

Package Type
L: Light Duty
M: Medium Duty
H: Heavy Duty

Lead Length
1: 1 meter
2: 2 meters
C: Custom

Connector Type
0: None