

**Product Specification: Interleaver (C- or L-band, Bi-directional), R0.0; 11-20-08.**

Parameter	Unit	25-50 GHz	33.3-66.7 GHz	50-100 GHz Low-CD	50-100 GHz High-CD	100-200 GHz	200-400 GHz
Wavelength Range	nm	1527 ~ 1567 for C-band or 1567 ~ 1607 for L-band					
Channel Center Alignment	-	ITU Grid					
Insertion Loss <sup>1</sup> (without connector)	dB	<3.7	<3.4	<2.6	<1.8		
Insertion Loss Uniformity <sup>1</sup> (over all channels)	dB	<0.7	<0.6	<0.5	<0.4		
Passband Width <sup>1</sup> @ 0.5 dB	GHz	>ITU±7	>ITU±9	>ITU±15		>ITU±30	>ITU±50
Channel Isolation <sup>1</sup>	dB	>20 over ITU±5GHz	>21 over ITU±7GHz	>24 over ITU±8GHz		>24 over ITU±16GHz	>24 over ITU±30GHz
Passband Ripple <sup>1</sup> (within 0.5dB passband)	dB	<0.5	<0.4	<0.3	<0.2		
PDL <sup>1</sup> (within 0.5dB passband)	dB	<0.3			<0.2		
Chromatic Dispersion <sup>1</sup>	ps/nm	<±190 over ITU±5GHz	<±100 over ITU±7GHz	<±35 over ITU±10GHz	<±75 over ITU±10GHz	<±20 over ITU±16GHz	<±10 over ITU±30GHz
PMD <sup>1</sup> (within 0.5dB passband)	ps	<0.2					
Return Loss	dB	>40					
Directivity	dB	>45					
Max Input Optical Power	mW	300					
Operating Temperature	°C	0 ~ 65					
Storage Temperature	°C	-40 ~ 85					
Dimensions (L x W x H) <sup>2</sup>	mm	120 x 90 x 14 (a) or 130 x 70 x 14 (b)					
Pigtail Type	-	SMF-28 or equivalent with 900 μm tight buffer					
Connector Type	-	FC, LC, SC, MU, or E2000					
Pigtail Length	m	1.0±0.1					

1. Over the stated spectral and operating temperature ranges and all polarization states.
2. Two different sizes, (a) and (b), are available with different P/Ns. See the table below for variations.



### Part Number for Interleavers with Channel Center not aligned with ITU Grid

(Examples below are for C-band and FC/UPC Connector. The first C in P/N should be replaced by L for L-band device. FC should be replaced by FA for FC/APC connector or LC for LC/UPC connector, E2 for E2000, etc. XX should be used in these two places if no connector is needed. (a) and (b) refer to different outer box sizes, see the table above.)

Channel Center Frequency (CCF) Alignment	25-50 GHz	33.3-66.7 GHz	50-100 GHz Low-CD	50-100 GHz High-CD	100-200 GHz
CCF aligned with ITU	IL-C0BFCS002 (a) IL-C0BFCS003 (b)	IL-CTBFCS002 (a) IL-CTBFCS003 (b)	IL-C1BFCS001 (a) IL-C1BFCS003 (b)	IL-C1BFCS002 (a) IL-C1BFCS004 (b)	IL-C2BFCS001 (a) IL-C2BFCS003 (b)
CCF aligned with ITU+50 GHz	NA	NA	NA	NA	IL-C2BFCS002 (a) IL-C2BFCS004 (b)
CCF aligned with ITU+25 GHz	NA	NA	IL-C1BFCS005 (a) IL-C1BFCS006 (b)	IL-C1BFCS007 (a) IL-C1BFCS008 (b)	IL-C2BFCS005 (a) IL-C2BFCS007 (b)
CCF aligned with ITU-25 GHz	NA	NA	NA	NA	IL-C2BFCS006 (a) IL-C2BFCS008 (b)
CCF aligned with ITU+12.5 GHz	IL-C0BFCS004 (a) IL-C0BFCS005 (b)	NA	TBD	TBD	TBD

Channel Center Frequency (CCF) Alignment	200-400 GHz
CCF aligned with Even-ITU	IL-C3BFCS001 (a) IL-C3BFCS002 (b)
CCF aligned with Odd-ITU	IL-C3BFCS003 (a) IL-C3BFCS004 (b)
CCF aligned with Even-ITU+50 GHz	IL-C3BFCS005 (a) IL-C3BFCS006 (b)
CCF aligned with Odd-ITU+50 GHz	IL-C3BFCS007 (a) IL-C3BFCS008 (b)
CCF aligned with Even-ITU+25 GHz	IL-C3BFCS009 (a) IL-C3BFCS010 (b)
CCF aligned with Even-ITU-25 GHz	IL-C3BFCS011 (a) IL-C3BFCS012 (b)
CCF aligned with Odd-ITU+25 GHz	IL-C3BFCS013 (a) IL-C3BFCS014 (b)
CCF aligned with Odd-ITU-25 GHz	IL-C3BFCS015 (a) IL-C3BFCS016 (b)