

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 ¹ (without connector) | dB | <3.7 | <3.4 | <2.6 | <1.8 | | |
| Insertion Loss Uniformity ¹ (over all channels) | dB | <0.7 | <0.6 | <0.5 | <0.4 | | |
| Passband Width ¹ @ 0.5 dB | GHz | >ITU±7 | >ITU±9 | >ITU±15 | | >ITU±30 | >ITU±50 |
| Channel Isolation ¹ | dB | >20 over ITU±5GHz | >21 over ITU±7GHz | >24 over ITU±8GHz | | >24 over ITU±16GHz | >24 over ITU±30GHz |
| Passband Ripple ¹ (within 0.5dB passband) | dB | <0.5 | <0.4 | <0.3 | <0.2 | | |
| PDL ¹ (within 0.5dB passband) | dB | <0.3 | | | <0.2 | | |
| Chromatic Dispersion ¹ | 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 ¹ (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) ² | 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) |