



Band Filters for 200GHz Add/Drop Multiplexing

Bookham band skip filters leverage the proprietary Advanced Energetic Deposition (AED) process to produce the industry's best banded filter solution. The AED process features state-of-the-art layer thickness control to produce thin-film interference filters that are unparalleled for optical add/drop multiplexing (OADM) WDM applications.

Standard 5.5mm diameter packaging is available with the boot/length specification needed to meet your application. The optional compact packaging has diameter of only 3.2mm. All Bookham filter components are Telcordia GR-1221 qualified and 5/6 RoHS compliant.



Features

- 4-skip-0, 4-skip-1, & 4-skip-2 filters available
- Deep reflection isolation for minimized coherent crosstalk
- Low express channel loss
- Flat transmission passband for cascading
- Fewer skipped channels
- Excellent temperature stability

Options

- Custom skip designs available
- Compact packaging: 3.2mm diameter
- Rugged packaging

Applications

- Add/drop multiplexing
- Metro and long-haul WDM
- Banded Mux/Demux

Compliance

- GR-1221 qualified
- RoHS compliant (5/6)

Band Filters for 200GHz

Typical design specifications (valid over operating temperature)

Transmitted Channels	4-skip-0	4-skip-1	4-skip-2	unit
Clear Channel Passband	666	666	666	GHz
Insertion Loss ^a	1.0	1.0	1.0	dB
Insertion Loss Variation	0.3	0.3	0.2	dB
Adjacent Band Isolation	25	25	25	dB
PDL over Clear Channel	0.15	0.1	0.1	dB
Return Loss	45	45	45	dB
Reflected Channel				
Insertion Loss ^a	0.45	0.45	0.45	dB
PDL	0.15	0.1	0.1	dB
Reflection Isolation ^b	15	15	20	dB
Directivity	45	45	45	dB
Component Parameters				
Operating Temperature		-5 to 70		°C
Storage Temperature		-40 to 85		°C
Dimensions ^c (standard packaging)		5.5 (Ø) x 51 (L)		mm

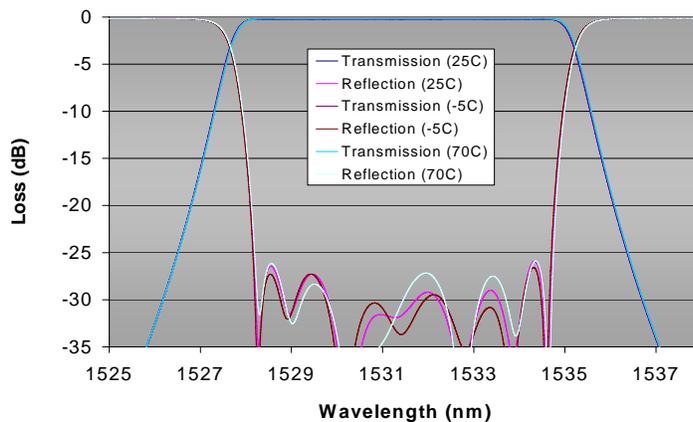
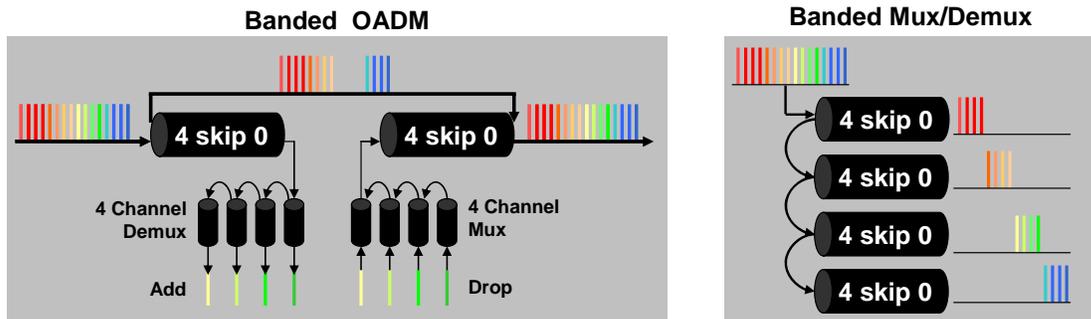
^a Loss includes connector pair.

^b At edge of clear channel passband

^c Nominal overall length. Standard package length without boots nominally 35mm.

Example Applications and Performance

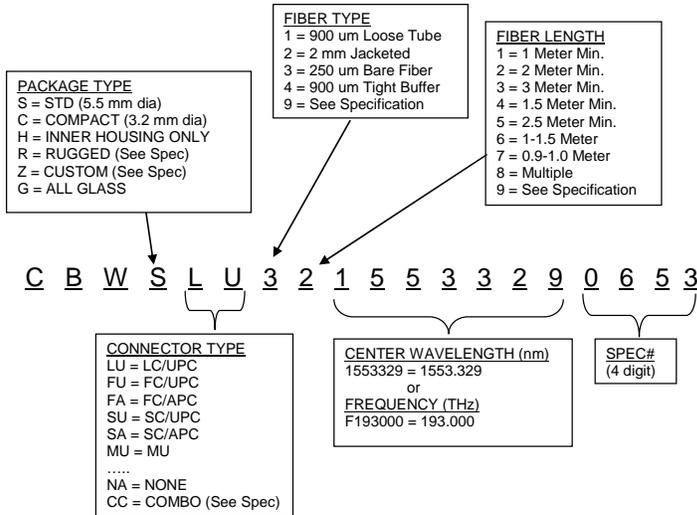
Banded 4-skip-0 applications and 4-skip-0 performance at -5C, 25C, and 70C





Ordering Information

Band Filter numbering convention



North America

Bookham Worldwide Headquarters

2584 Junction Ave.
San Jose
CA 95134
USA

• Tel: +1 408 919 1500

• Fax: +1 408 919 6083

Europe

Paignton Office

Brixham Road
Paignton
Devon
TQ4 7BE
United Kingdom

• Tel: +44 (0) 1803 66 2000

• Fax: +44 (0) 1803 66 2801

Asia

Shenzhen Office

2 Phoenix Road
Futian Free Trade Zone
Shenzhen 518038
China

• Tel: +86 755 33305888

• Fax: +86 755 33305805
+86 755 33305807

sales@bookham.com

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