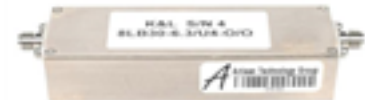


K&L Microwave 8LB30-6.3/U4-O/O
Lumped Component Filter



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◆ Explanation of Supplemental Codes

(Can be one or two characters)

- /A Amplitude Matched
- /B Bessel Response
- /C Contiguous Multiplexer
- /D Delay Matched
- /E Equiripple Bandwidth
- /H Half dB Bandwidth
- /N Non-contiguous Multiplexer
- /P Phased Matched
- /Q High Power Requirements
- /T Three dB Bandwidth
- /U One dB Bandwidth
- /W Butterworth Response
- /X Special

◆ Multiplexer

Four character medium and topology code

- _ Z _ _ Diplexer
- _ M _ _ Multiplexer

◆ Special Packaging

"1" is used as 3rd character in medium topology code.

- _ _ 1 _

◆ Explanation of Topology of Codes

LP/HP/BP

- 0 - Special
- 1 - Chebyshev
- 2 - S.E.L.F.
Symmetrical Equiripple
Lumped Filter

BP

- 0 - Special
- 1 - Resonant Ladder
- 2 - Capacitively Coupled "tank"
- 3 - "tank" with Tubular End Sections
- 4 - Lowpass/Highpass Cascade
- 5 - Lumped Tubular or "mesh"
- 6 - Narrowband S.E.L.F.
- 7 - Broadband S.E.L.F.
- 8 - General Parameter
- 9 - Unspecified

◆ Specific Examples for Each Product Line are:

9B111-500/H50-O/O 9 section Chebyshev filter in a **one and a quarter inch tubular**, center frequency 500 MHz with a half dB bandwidth of 50 MHz and SMA female connectors on both ends.

6C42-1000/UW30-O/OP 6 section Butterworth **cavity filter** in a 42 series package, center frequency 1000 MHz, one dB bandwidth 30 MHz, SMA female on input and SMA male on the output.

9ED30-4000/U2000-N/NP 9 section **interdigital filter** in a 30 series package, center frequency of 4000 MHz, its 1 dB bandwidth is 2000 MHz and it has N-type connectors, input female and output male.

6IB33-2500/TA212-O/O 6 section **IB filter**, tank circuit with tubular end sections in an IB package, center frequency 2500 MHz with a 3 dB bandwidth of 212 MHz, SMA female connectors on both ends, amplitude matching is specified.

3MC10-500/TD45-O/OP 3 section **miniature cavity filter**, center frequency of 500 MHz with a 3 dB bandwidth of 45 MHz. Delay matching is specified and the connectors are SMA female on input and SMA male on the output.

◆ Multiplexers

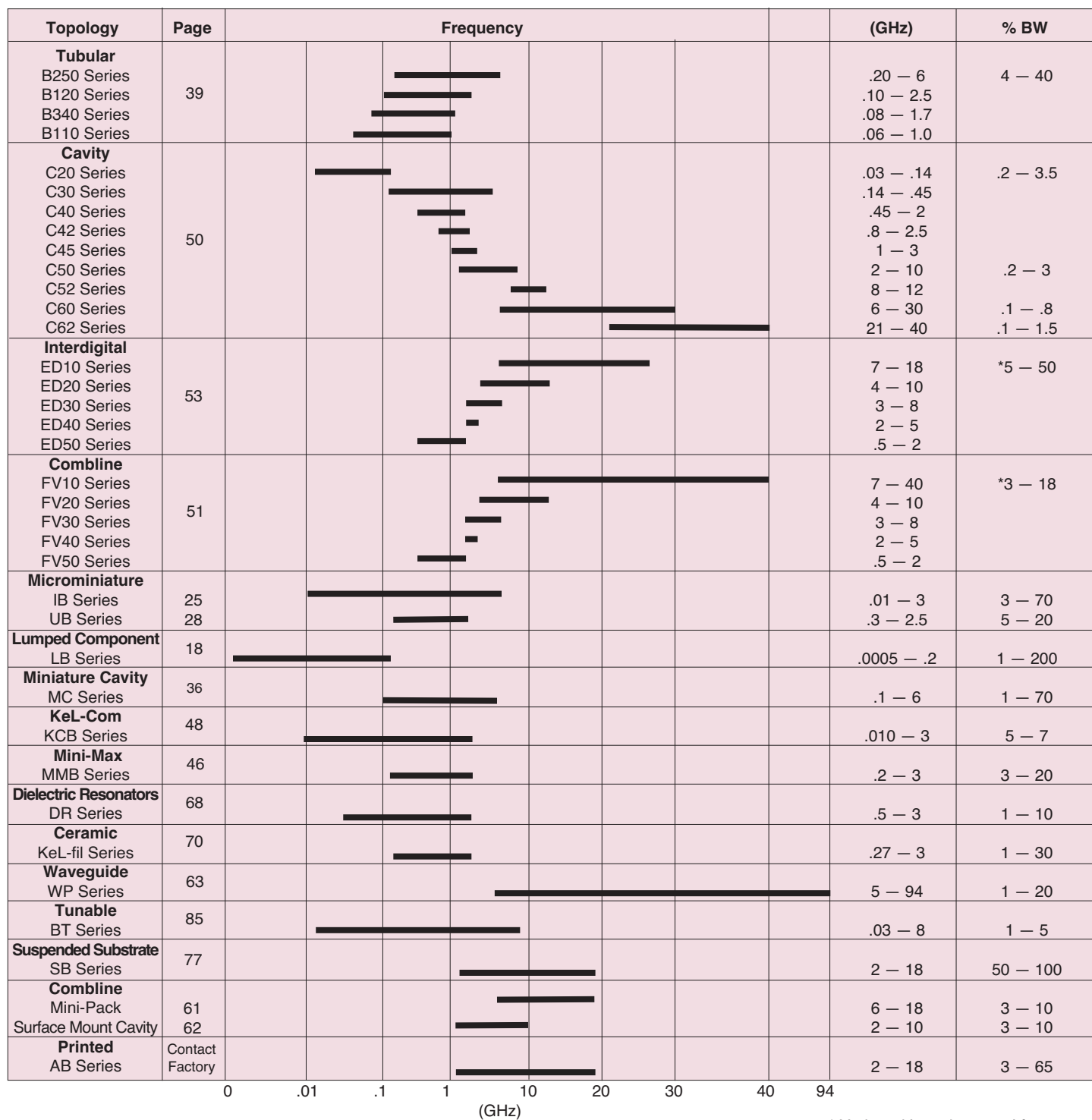
In a multiplexer the second character in the medium and topology code is replaced by a Z in the case of a diplexer and by M in case of any other multiplexer. The lowest and highest passband frequencies are specified in the part number.

◆ Multiplexers

7FZ30-3000/TC4500-O This **diplexer** consists of 2 seven-section combline filters in a 30 series package. The lower channel bandedge is at 3000 MHz and the channels are contiguous passing up to 4500 MHz. All three connectors are SMA female.

Topology vs. Frequency Range

◆ Bandpass Filters



* Varies with package and frequency.



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