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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.

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