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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.

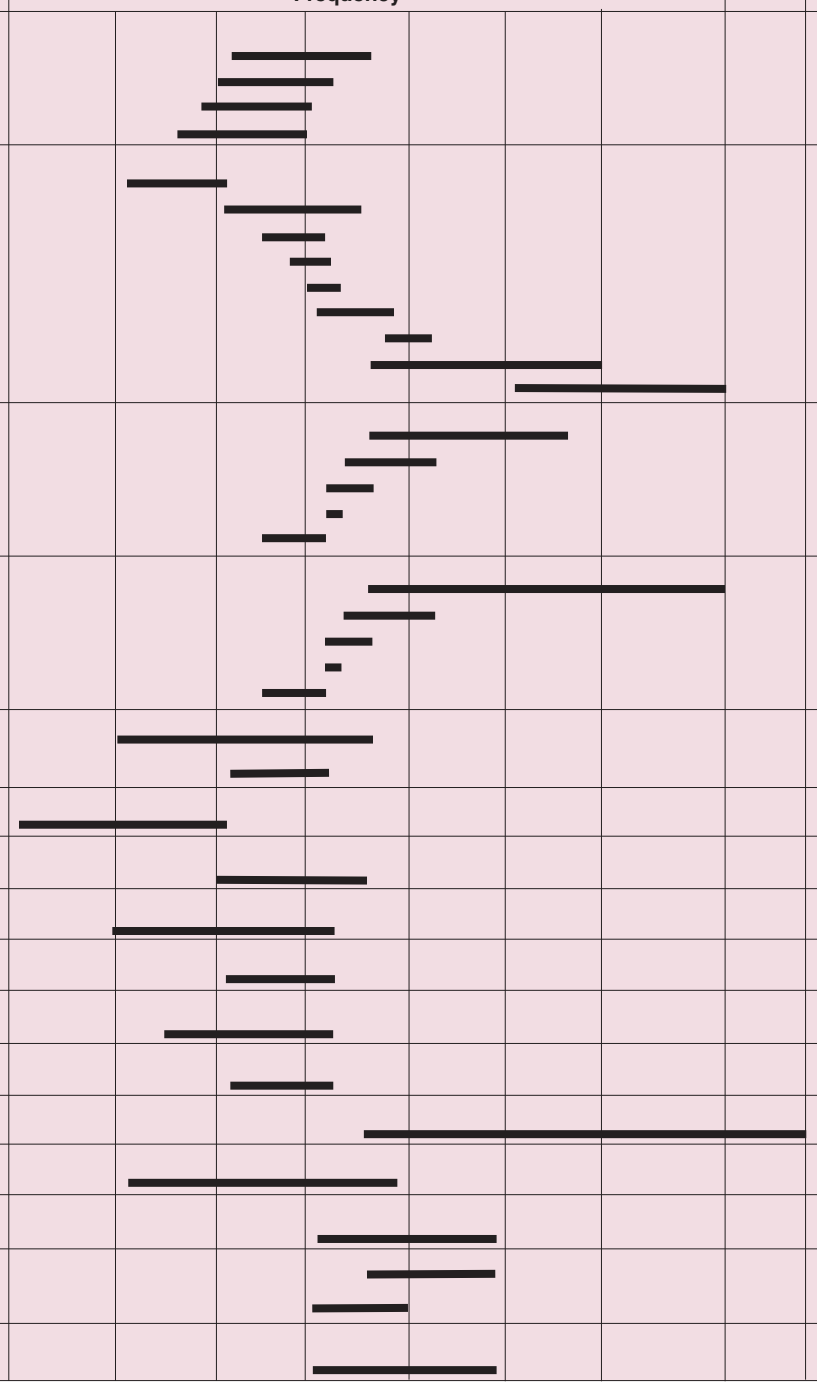
Multiplexers

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

Topology	Page	(GHz)	% BW
Tubular			
B250 Series	39	.20 — 6	4 — 40
B120 Series		.10 — 2.5	
B340 Series		.08 — 1.7	
B110 Series		.06 — 1.0	
Cavity			
C20 Series	50	.03 — .14	.2 — 3.5
C30 Series		.14 — .45	
C40 Series		.45 — 2	
C42 Series		.8 — 2.5	
C45 Series		1 — 3	
C50 Series		2 — 10	.2 — 3
C52 Series		8 — 12	
C60 Series		6 — 30	.1 — .8
C62 Series		21 — 40	.1 — 1.5
Interdigital			
ED10 Series	53	7 — 18	*5 — 50
ED20 Series		4 — 10	
ED30 Series		3 — 8	
ED40 Series		2 — 5	
ED50 Series		.5 — 2	
Combline			
FV10 Series	51	7 — 40	*3 — 18
FV20 Series		4 — 10	
FV30 Series		3 — 8	
FV40 Series		2 — 5	
FV50 Series		.5 — 2	
Microminiature			
IB Series	25	.01 — 3	3 — 70
UB Series	28	.3 — 2.5	5 — 20
Lumped Component			
LB Series	18	.0005 — .2	1 — 200
Miniature Cavity			
MC Series	36	.1 — 6	1 — 70
KeL-Com			
KCB Series	48	.010 — 3	5 — 7
Mini-Max			
MMB Series	46	.2 — 3	3 — 20
Dielectric Resonators			
DR Series	68	.5 — 3	1 — 10
Ceramic			
KeL-fil Series	70	.27 — 3	1 — 30
Waveguide			
WP Series	63	5 — 94	1 — 20
Tunable			
BT Series	85	.03 — 8	1 — 5
Suspended Substrate			
SB Series	77	2 — 18	50 — 100
Combline			
Mini-Pack	61	6 — 18	3 — 10
Surface Mount Cavity	62	2 — 10	3 — 10
Printed			
AB Series	Contact Factory	2 — 18	3 — 65



* Varies with package and frequency.

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