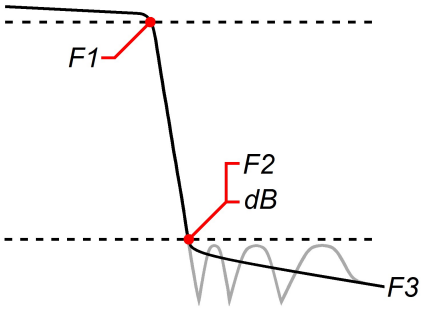
Wainwright Model Number System

Connector Code

SMA-female	S	PC1.85-female	Q
SMA-male	T	PC1.85-male	R
N-female	E	PC2.92-female	C
N-male	F	PC2.92-male	D
BNC-female	A	PC3.5-female	J
BNC-male	B	PC3.5-male	K
TNC-female	L	Pin	P
TNC-male	M	Surface Mount	Z
7/16-female	H		
7/16-male	I		

Lowpass Filters

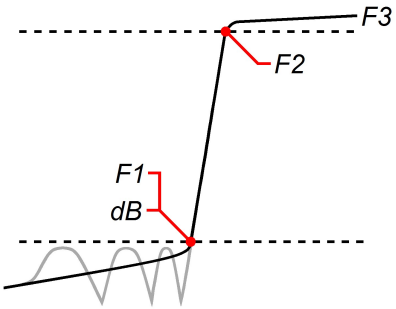


F1 = Passband Corner (Fco)
F2 = Stopband Corner
F3 = Stopband Limit
dB = Stopband Attenuation

Formula: Type & Sections - F1 - F2 - F3 - dB Connectors1,2

e.g.: WLK10-1000-1100-18000-40SS

Highpass Filters

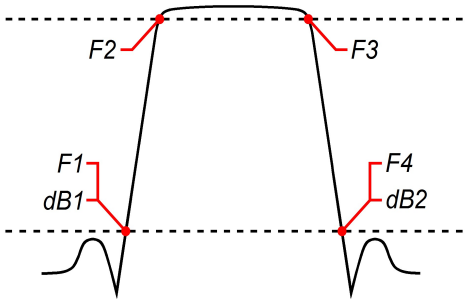


F1 = Stopband Corner
F2 = Passband Corner (Fco)
F3 = Passband Limit
dB = Stopband Attenuation

Formula: Type & Sections - F1 - F2 - F3 - dB Connectors1,2

e.g.: WHJ5-735-1000-7000-40EE

Bandpass Filters



F1 = Lower Stopband Corner
F2 = Lower Passband Corner
F3 = Upper Passband Corner
F4 = Upper Stopband Corner
dB1 = Lower Stopband Attenuation
dB2 = Upper Stopband Attenuation

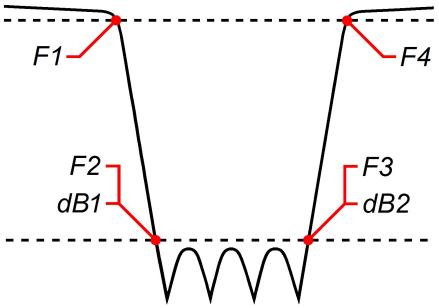
Formula when dB1 = dB2:
Type & Sections - F1 - F2 - F3 - F4 - dB1 Connectors1,2

e.g.: WBCGV5-1750-1950-2050-2250-50ST

Formula when dB1 ≠ dB2:
Type & Sections - F1 - F2 - F3 - F4 - dB1 / dB2 Connectors1,2

e.g.: WBCGV5-1750-1950-2050-2250-50/60ST

Band Reject Filters



F1 = Lower Passband Corner
F2 = Lower Stopband Corner
F3 = Upper Stopband Corner
F4 = Upper Passband Corner
dB1 = Lower Stopband Attenuation
dB2 = Upper Stopband Attenuation

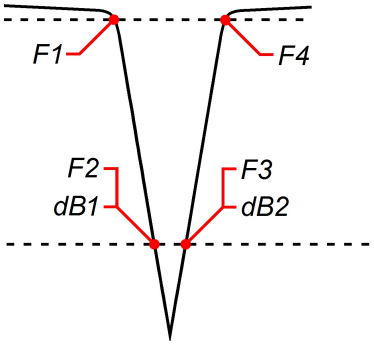
Formula when dB1 = dB2:
Type & Sections - F1 - F2 - F3 - F4 – dB1 Connectors1,2

e.g.: WRCJV16-4475-4650-5350-5525-80EF

Formula when dB1 ≠ dB2:
Type & Sections - F1 - F2 - F3 - F4 – dB1 / dB2 Connectors1,2

e.g.: WRCJV16-4475-4650-5350-5525-80/70EF

Notch Filters



F1 = Lower Passband Corner
F2 = Lower Stopband Corner
F3 = Upper Stopband Corner
F4 = Upper Passband Corner
dB1 = Lower Stopband Attenuation
dB2 = Upper Stopband Attenuation

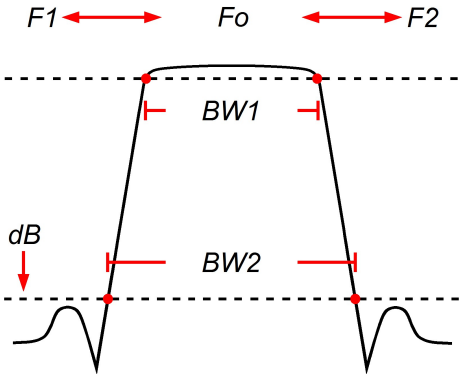
Formula when dB1 = dB2:
Type & Sections - F1 - F2 - F3 - F4 – dB1 Connectors1,2

e.g.: WRCD5-997-999-1001-1003-50AA

Formula when dB1 ≠ dB2:
Type & Sections - F1 - F2 - F3 - F4 – dB1 / dB2 Connectors1,2

e.g.: WRCD5-997-999-1001-1003-50/55AA

Tunable Bandpass Filters



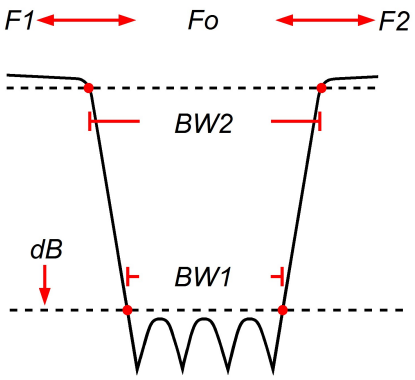
F1 = Lowest Fo
F2 = Highest Fo
dB = Stopband Attenuation
BW1 = Passband Width
BW2 = Stopband Corner Width

Formula: Type & Sections - F1 - F2 - BW1 - BW2 - dB Connectors1,2 Tuning

(Tuning Options: K = Knobs, no K = Screws, M = Motor/Digital)

e.g.: WTBCT5-700-1000-10-40-60ABK

Tunable Band Reject Filters



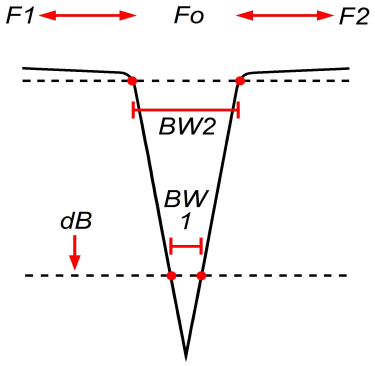
F1 = Lowest Fo
F2 = Highest Fo
dB = Stopband Attenuation
BW1 = Stopband Width
BW2 = Passband Corner Width

Formula: Type & Sections - F1 - F2 - BW1 - BW2 - dB Connectors1,2 Tuning

(Tuning Options: K = Knobs, no K = Screws, M = Motor/Digital)

e.g.: WTRCD10-1500-1700-10-20-50SS

Tunable Notch Filters



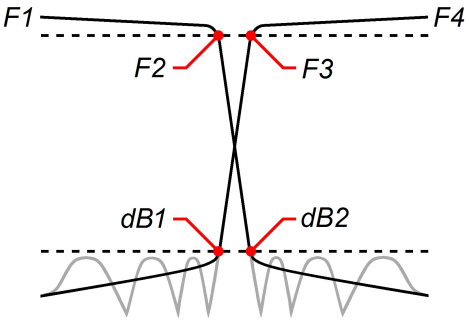
F1 = Lowest Fo
F2 = Highest Fo
dB = Stopband Attenuation
BW1 = Stopband Width
BW2 = Passband Corner Width

Formula: Type & Sections - F1 - F2 - BW1 - BW2 - dB Connectors1,2 Tuning

(Tuning Options: K = Knobs, no K = Screws, M = Motor/Digital)

e.g.: WTRCA6-400-500-0.1-0.7-40EEM

Diplexers/Duplexers (LP/HP)



F1 = Band 1 Lower Passband Limit
F2 = Band 1 Upper Passband Corner
F3 = Band 2 Lower Passband Corner
F4 = Band 2 Upper Passband Limit
dB1 = Band 1 Isolation
dB2 = Band 2 Isolation

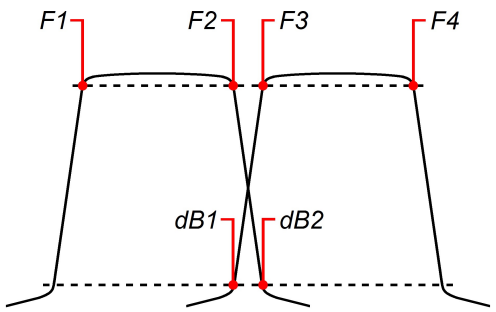
Formula when dB1 = dB2:
Type & Sections – F1 – F2 / F3 – F4 – dB1 Connectors1,2,3

e.g.: WDK4+3-DC-10/1000-2000-60S3 (3 x S = S3)

Formula when dB1 ≠ dB2:
Type & Sections – F1 – F2 / F3 – F4 – dB1 / dB2 Connectors1,2,3

e.g.: WDK4+3-DC-10/1000-2000-60/50SST

Diplexers/Duplexers (BP/BP)



F1 = Band 1 Lower Passband Corner
F2 = Band 1 Upper Passband Corner
F3 = Band 2 Lower Passband Corner
F4 = Band 2 Upper Passband Corner
dB1 = Band 1 Isolation
dB2 = Band 2 Isolation

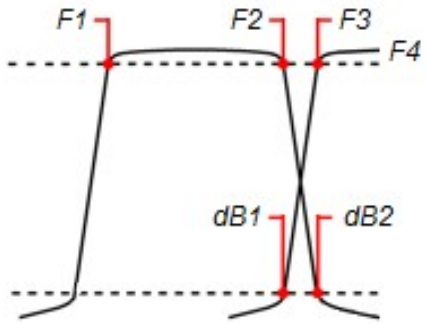
Formula when dB1 = dB2:
Type & Sections – F1 – F2 / F3 – F4 – dB1 Connectors1,2,3

e.g.: WDCG9+9-791-821/832-862-60E3 (3 x E = E3)

Formula when dB1 ≠ dB2:
Type & Sections – F1 – F2 / F3 – F4 – dB1 / dB2 Connectors1,2,3

e.g.: WDCG9+9-791-821/832-862-60/50EEF

Diplexers/Duplexers (BP/HP)



F1 = Band 1 Lower Passband Corner
F2 = Band 1 Upper Passband Corner
F3 = Band 2 Lower Passband Corner
F4 = Band 2 Upper Passband Limit
dB1 = Band 1 Isolation
dB2 = Band 2 Isolation

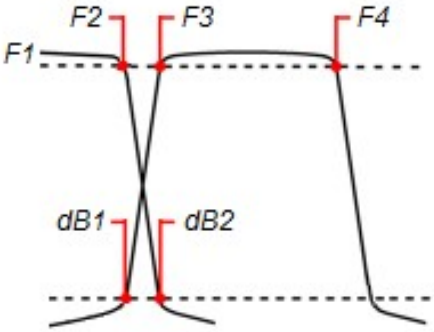
Formula when dB1 = dB2:
Type & Sections – F1 – F2 / F3 – F4 – dB1 Connectors1,2,3

e.g.: WDJ16+9-450-960/1300-1400-50SST

Formula when dB1 ≠ dB2:
Type & Sections – F1 – F2 / F3 – F4 – dB1 / dB2 Connectors1,2,3

e.g.: WDJ16+9-450-960/1300-1400-90/50S3 (3 x S = S3)

Diplexers/Duplexers (LP/BP)



F1 = Band 1 Lower Passband Limit
F2 = Band 1 Upper Passband Corner
F3 = Band 2 Lower Passband Corner
F4 = Band 2 Upper Passband Corner
dB1 = Band 1 Isolation
dB2 = Band 2 Isolation

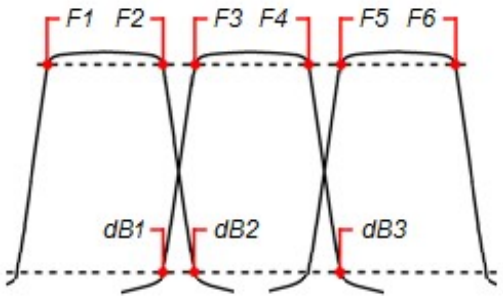
Formula when dB1 = dB2:
Type & Sections – F1 – F2 / F3 – F4 – dB1 Connectors1,2,3

e.g.: WDJ9+8-DC-88/100-164-30ABB

Formula when dB1 ≠ dB2:
Type & Sections – F1 – F2 / F3 – F4 – dB1 / dB2 Connectors1,2,3

e.g.: WDJ9+8-DC-88/100-164-30/40A3 (3 x A = A3)

Triplexers (BP/BP/BP)



F1 = Band 1 Lower Passband Corner
F2 = Band 1 Upper Passband Corner
F3 = Band 2 Lower Passband Corner
F4 = Band 2 Upper Passband Corner
F5 = Band 3 Lower Passband Corner
F6 = Band 3 Upper Passband Corner

dB1 = Band 1 Isolation
dB2 = Band 2 Isolation
dB3 = Band 3 Isolation

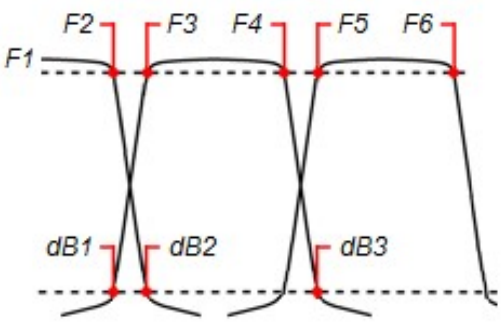
Formula when dB1, dB2 and dB3 all same:
Type & Sections – F1 – F2 / F3 – F4 / F5 – F6 – dB1 Connectors1,2,3,4

e.g.: WTCFV24-1710-1920/2300-2400/2500-2690-40S4 (4 x S = S4)

Formula when dB1, dB2 and dB3 not all same:
Type & Sections – F1 – F2 / F3 – F4 / F5 – F6 – dB1 / dB2 / dB3 Conn.1,2,3,4

e.g.: WTCFV24-1710-1920/2300-2400/2500-2690-40/50/40SSST

Triplexers (LP/BP/BP)



F1 = Band 1 Lower Passband Limit
F2 = Band 1 Upper Passband Corner
F3 = Band 2 Lower Passband Corner
F4 = Band 2 Upper Passband Corner
F5 = Band 3 Lower Passband Corner
F6 = Band 3 Upper Passband Corner

dB1 = Band 1 Isolation
dB2 = Band 2 Isolation
dB3 = Band 3 Isolation

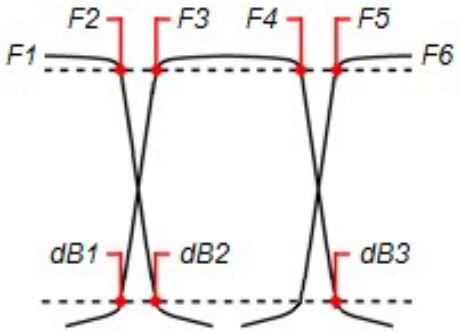
Formula when dB1, dB2 and dB3 all same:
Type & Sections – F1 – F2 / F3 – F4 / F5 – F6 – dB1 Connectors1,2,3,4

e.g.: WTCGV23-DC-1000/1565-1585/1710-2000-75A4 (4 x A = A4)

Formula when dB1, dB2 and dB3 not all same:
Type & Sections – F1 – F2 / F3 – F4 / F5 – F6 – dB1 / dB2 / dB3 Conn.1,2,3,4

e.g.: WTCGV23-DC-1000/1565-1585/1710-2000-75/50/75AAAB

Triplexers (LP/BP/HP)



F1 = Band 1 Lower Passband Limit
F2 = Band 1 Upper Passband Corner
F3 = Band 2 Lower Passband Corner
F4 = Band 2 Upper Passband Corner
F5 = Band 3 Lower Passband Corner
F6 = Band 3 Upper Passband Limit

dB1 = Band 1 Isolation
dB2 = Band 2 Isolation
dB3 = Band 3 Isolation

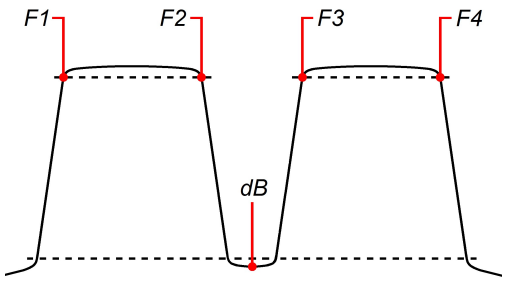
Formula when dB1, dB2 and dB3 all same:
Type & Sections – F1 – F2 / F3 – F4 / F5 – F6 – dB1 Connectors1,2,3,4

e.g.: WTCD20-DC-88/116-512/870-2000-40E4 (4 x E = E4)

Formula when dB1, dB2 and dB3 not all same:
Type & Sections – F1 – F2 / F3 – F4 / F5 – F6 – dB1 / dB2 / dB3 Conn.1,2,3,4

e.g.: WTCD20-DC-88/116-512/870-2000-40/30/40EEEF

Monoplexers (BP/BP)

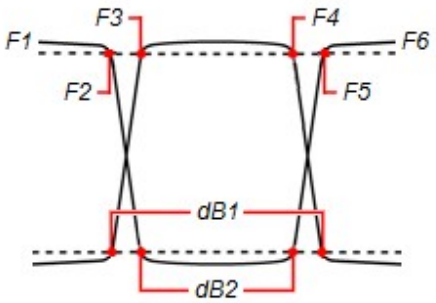


F1 = Band 1 Lower Passband Limit
F2 = Band 1 Upper Passband Corner
F3 = Band 2 Lower Passband Corner
F4 = Band 2 Upper Passband Limit
dB = Stopband Attenuation

Type & Sections – F1 – F2 / F3 – F4 – dB Connectors1,2

e.g.: WMCGV12+12-419-470/873-925-30EF

Absorptive Filters (BP/BR)



F1 = Band 1 Lower Passband Limit
F2 = Band 1 Upper Passband Corner
F3 = Band 2 Lower Passband Corner
F4 = Band 2 Upper Passband Corner
F5 = Band 3 Lower Passband Corner
F6 = Band 3 Upper Passband Limit
dB1 = Band 1 & 3 Isolation
dB2 = Band 2 Isolation

Formula when dB1 = dB2:
Type & Sections – F1 – F2 / F3 – F4 / F5 – F6 – dB1 Connectors1,2,3

e.g.: WACG7+7-DC-849/869-894/914-2400-50A3 (3 x A = A3)

Formula when dB1 ≠ dB2:
Type & Sections – F1 – F2 / F3 – F4 / F5 – F6 – dB1 / dB2 Connectors1,2,3

e.g.: WACG7+7-DC-849/869-894/914-2400-20/50ABB

Power/PIM: add -Power/PIM or -Power or -PIM

e.g. WBCGV5-1750-1950-2050-2250-50ST-1000/133
e.g. WRCJV16-4475-4650-5350-5525-80EF-1000
e.g. WDCG9+9-791-821/832-862-60E3-133