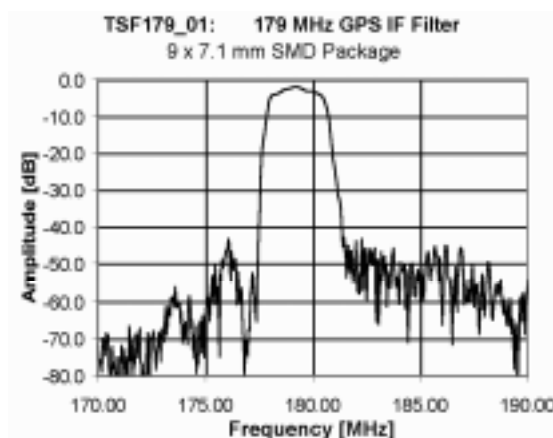


LITHIUM TANTALATE IF FILTERS

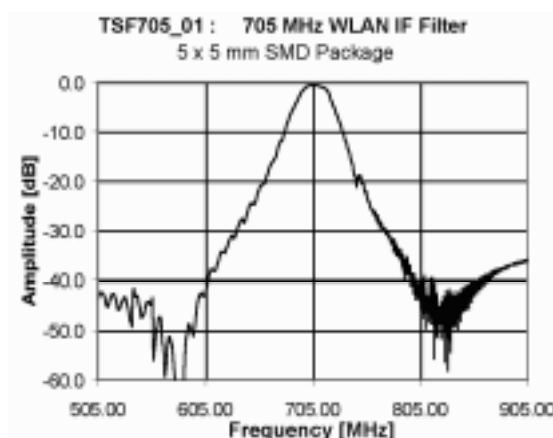
Coupled Resonator IF Filters (CRF)

Low loss Low group delay ripple	
Operating frequency	100 - 1000 MHz
3 dB bandwidth	1 - 2.5 %
Insertion loss	2 - 5 dB
Group delay ripple	50 ns - 1 μ s
Shape factor [40 dB / 3 dB bandwidth]	2 - 4
Ultimate rejections	35 - 60 dB
Input/Output configuration	Balanced or Single Ended
Source & load impedance	50 - 500 Ω



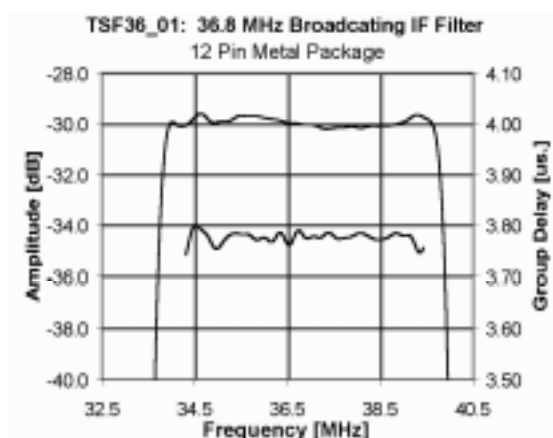
Balanced Bridge IF Filters (BBF)

Extremely low loss Small size	
Frequency range	50 - 1000 MHz
3 dB bandwidth	1 - 5 %
Insertion loss	0.5 - 5 dB
Group delay ripple	50 ns - 2 μ s
Shape factor [40 dB / 3 dB bandwidth]	2.5 - 5 dB
Ultimate rejections	30 - 60 dB
Input/Output configuration	Balanced (Differential) only
Source & load impedance	50 - 500 Ω



Transversal Filters (TRF)

High selectivity Very low group delay ripple	
Operating frequency	30 - 600 MHz
3 dB bandwidth	1 - 25 %
Insertion loss	12 - 35 dB
Group delay ripple	20 - 500 ns
Shape factor [40 dB / 3 dB bandwidth]	1.1 - 3
Ultimate rejections	40 - 65 dB
Input/Output configuration	Balanced or Single Ended
Source & load impedance	50 - 3000 Ω



SAW FILTERS

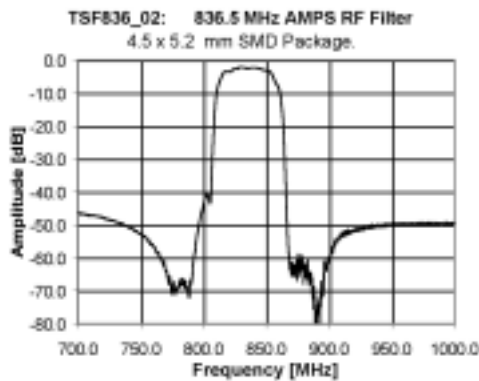
Lithium tantalate & niobate RF filters



LITHIUM TANTALATE & NIOBATE RF FILTERS

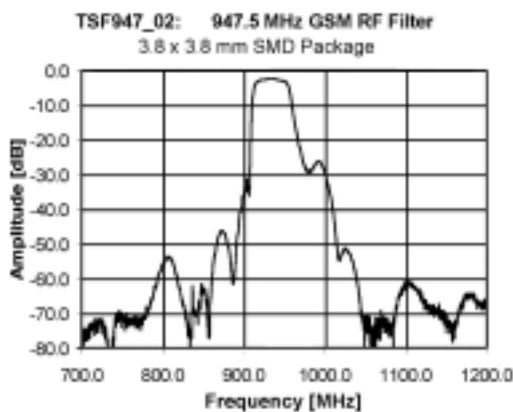
Impedance Element Filters (IEF)

Operating frequency	50 - 1500 MHz
3 dB bandwidth	1.5 - 7.5 %
Insertion loss	1 - 5 dB
Group delay ripple	20 - 500 ns
Shape factor [40dB / 3dB bandwidth]	2 - 4
Ultimate rejections	20 - 50 dB
Input/Output configuration	Balanced or Single Ended
Source & load impedance	50 - 200 Ω
Power handling	Up to 35 dBm



Coupled Resonator Filters (CRF)

Operating frequency	50 - 1100 MHz
3 dB bandwidth	1 - 4 %
Insertion loss	2 - 6 dB
Group delay ripple	20 - 500 ns
Shape factor [40dB / 3dB bandwidth]	2 - 4
Ultimate rejections	20 - 60 dB
Input/Output configuration	Balanced or Single Ended
Source & load impedance	50 - 500 Ω
Power handling	Up to 35 dBm



Balanced Bridge RF Filters (BBF)

Operating frequency	50 - 1500 MHz
3 dB bandwidth	1.5 - 8 %
Insertion loss	0.5 - 4 dB
Group delay ripple	20 - 400 ns
Shape factor [40dB / 3dB bandwidth]	2.5 - 5
Ultimate rejections	20 - 50 dB
Input/Output configuration	Balanced (Differential) only
Source & load impedance	50 - 300 Ω
Power handling	Up to 35 dBm