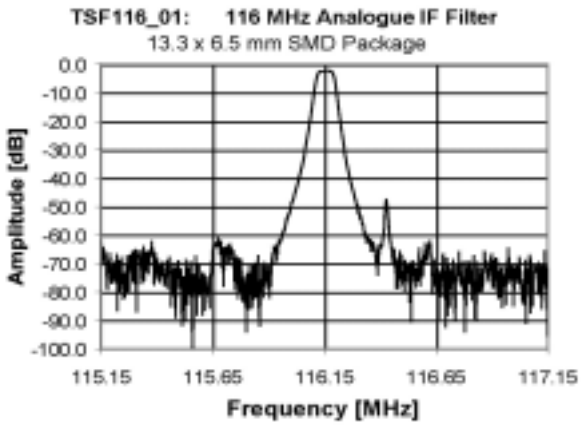
QUARTZ IF FILTERS

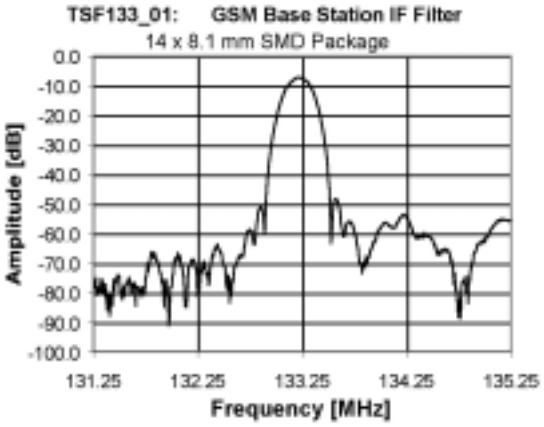
Transversally Coupled Filters (TCF)

Low loss **High selectivity**	
Operating frequency	50 - 600 MHz
3 dB bandwidth	0.01 - 0.1 %
Insertion loss	2 - 8 dB
Group delay ripple	1 - 5 µs
Shape factor [40 dB / 3 dB bandwidth]	2.5 - 3.5
Ultimate rejections	35 - 60 dB
Input/output configuration	Balanced or single-ended
Source & load impedance	50 - 2000 Ω



Single Phase Uni-Directional Transducer Filters (SPUDT)

Low group delay ripple **High Selectivity**	
Operating frequency	50 - 400 MHz
3 dB bandwidth	1.0 - 2.5 %
Insertion loss	6 - 14 dB
Group delay ripple	200 ns. - 2 µs
Shape factor [40 dB / 3 dB bandwidth]	2.5 - 4.0
Ultimate rejections	35 - 60 dB
Input/Output configuration	Balanced or single-ended
Source & load impedance	50 - 2000 Ω



Balanced Bridge IF Filters (BBF)

Low group delay ripple **Small size/ selectivity ratio**	
Operating frequency	30 - 1100 MHz
3 dB bandwidth	0.03 - 2 %
Insertion loss	1 - 8 dB
Group delay ripple	200 ns - 2 µs
Shape factor [40 dB / 3 dB bandwidth]	2.5 - 5.0
Ultimate rejections	30 - 60 dB
Input/Output configuration	Balanced (Differential) only
Source & load impedance	100 - 3000 Ω