

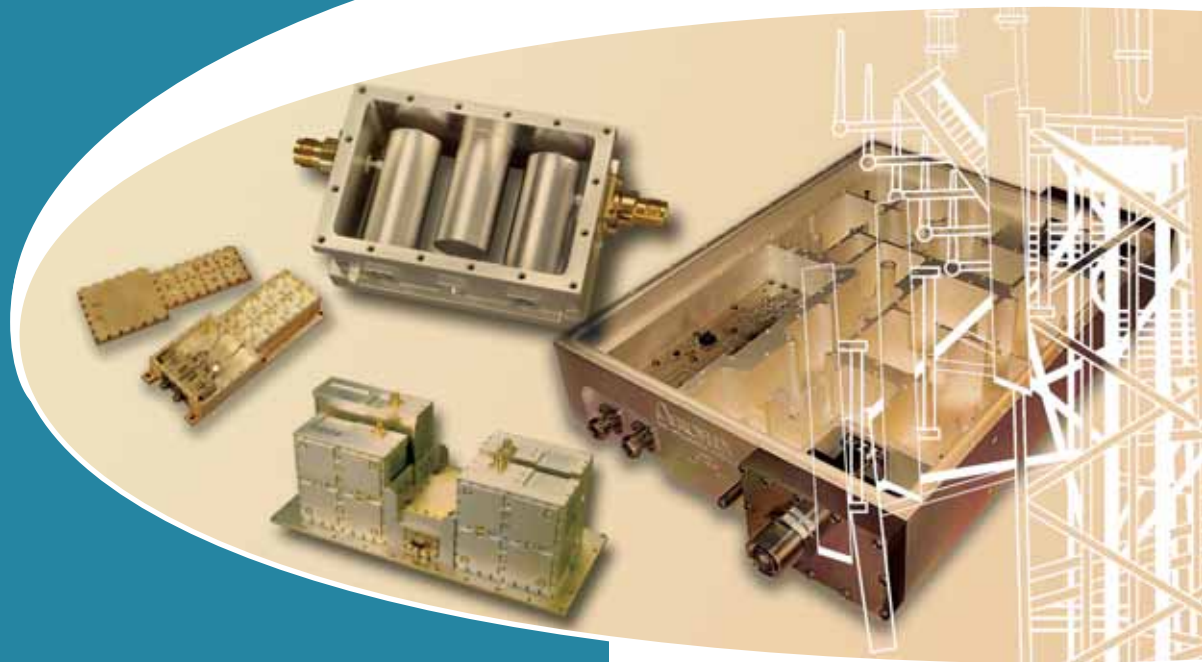


A passion for performance.

Multi-function  
assemblies for wireless  
base station front ends

RF and Microwave  
Filters including cavity  
types with metal or  
ceramic resonators,  
and printed filters

- Band pass
- Low pass
- Band reject
- Duplexer, triplexer  
and multiplexer



# Aeroflex KDI-IP

## RF and Microwave Filters

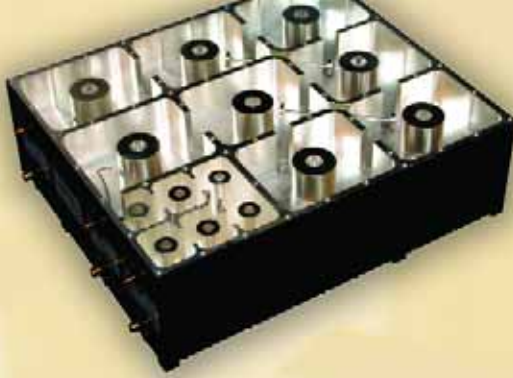


# Cavity filters we've proudly produced w

WE OPTIMIZE SPECIFICATIONS FOR EACH APPLICATION DEPENDING UPON CUSTOMER PRIORITIES.

	Passband MHz	Stopband MHz	Ins Loss dB	Size Inches	Rejection dB	Power Watts
<b>BAND PASS FILTERS</b>						
BPF-A15S	806-941	880-894	1.0	12x12x2	45	5 avg, 150 peak
AY-K15S	1755-1850	1216-7000	0.75	2.3x1.6x0.75	40-60	20 avg, 200 peak
BPF-A25S	600-2400	1450-9600	0.6	2.5x1.5x0.75	15-60	30, 300 peak
CF-A14S	824-894	896-901	0.5	9.5x19x2.5	40	500 avg
CF-A08S	806-825	dc-750	1.0	5x12x1.6	50	0 avg, 200 peak
BPF-A18S	896-941	dc-894	1.0	5x2.4x2.4	30	5 avg, 150 peak
BPF-A20S	2027-2130	2150-2300	0.8	5.8x3x1.4	10-60	10 avg
		1885-2014				
BPF-A26S	2197-2297	2320-4000	0.9	5x2.4x2.4	60	10 avg
<b>DUAL PASS FILTERS</b>						
BPF-A19S	896-941	880-894	0.5	5x5x2.4	30	10 avg, 250 peak
<b>DUPLEXERS</b>						
CF-A10S	806-869	NA	0.5	5x3.8x2.4	45	5 avg, 150 peak
	896-940		0.5			
CF-A06S	806-825	lower, between	1.0	9x8x3	30-75	10 avg, 225 peak
	896-901	and above PB				
DCF-A12S	806-869	NA	0.35	5x6x9	50	13500 peak
	896-940					
BPF-A05S	10.7-12.8GHz	NA	0.6	0.9x1.3x3.2	45	25 avg
	14-14.5GHz		0.35			
<b>TRIPLEXERS AND MULTIPLEXERS</b>						
CF-A26S	869-894	NA	0.3	12x12x3	65	600 avg, 10000 peak
	1710-2155		0.4		65	
	1850-2000		0.4		65	
<b>NOTCH FILTERS</b>						
CF-A27S	806-869	871-894	1.0	10x9x2.5	25	10 avg
	896-1950		1.0			
<b>DELAY LINE ASSEMBLIES</b>						
CFD-A08S	2090-2190		1.3	6x6x1	23-80	50 avg, 250 peak
		flatness	±0.1			
	Frequency RX MHz	Frequency Tx MHz	Gain Rx dB	Loss Tx dB	Rejection dB	Power Watts
<b>BASE STATION MULTIFUNCTION ASSEMBLIES</b>						
FEU-WCDMA1	1920-1980	2110-2170	34	1	110	200 avg
CF-A03S	824-849	869-894	0	0.7	75	5000 peak
AY-K77S	1850-1910	1930-1990	12	0.7	90	250 avg, 5000 peak
AY-K55S	1840-1920	1920-1980	30	1.2	35-95	250 avg, 5000 peak
CF-A25S	1930-1990	1850-1910	0	0.6	50-90	200 avg, 1500 peak

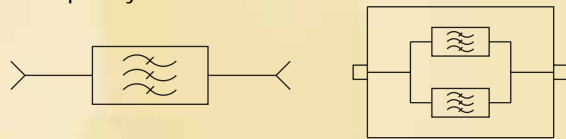
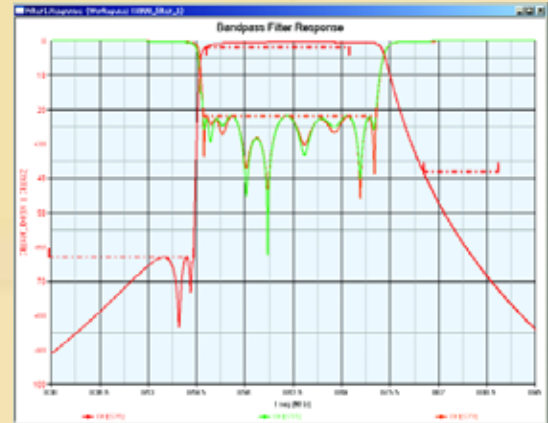
with our



own simulation tools

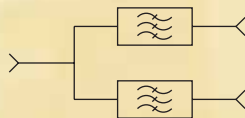
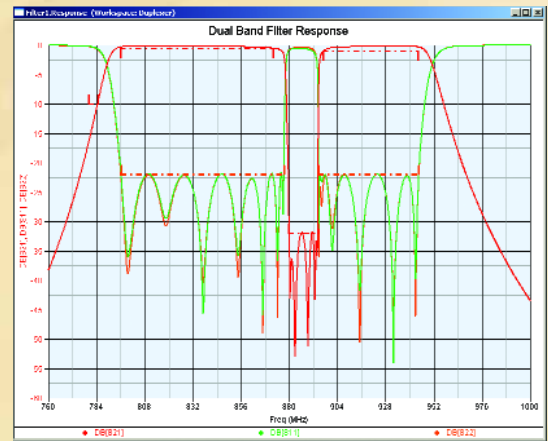
**BAND PASS, DUAL BAND PASS AND NOTCH FILTERS**

Frequencies to 40GHz. Bandwidths 5-30% typical. Sharp rejection loss. Low insertion loss. High peak and average power capability: 1000W average, 4kW peak. Can reject undesirable frequencies as high as 30-40dB while maintaining low loss at frequencies above and below the rejection frequency.



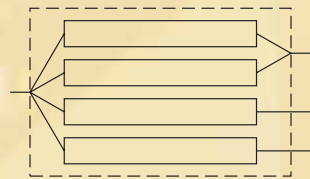
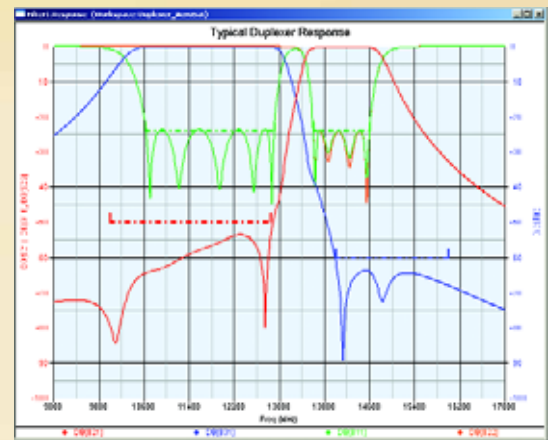
**DUPLEXERS**

Combines two ports with a common junction that can be used as an input or output. Cavity type with three ports.



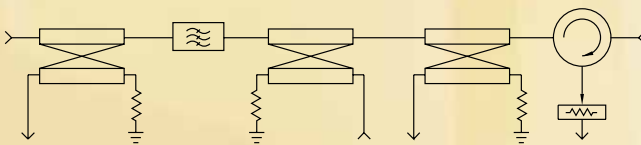
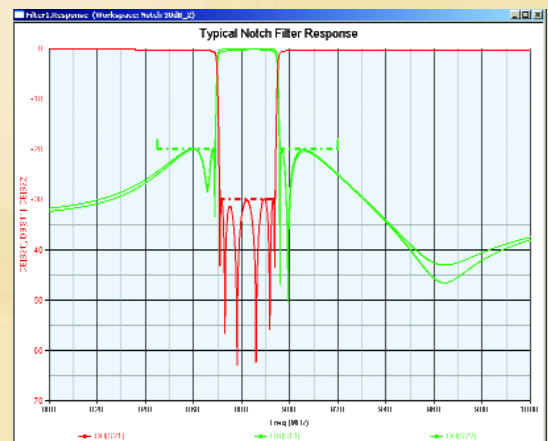
**TRIPLEXERS AND MULTIPLEXERS**

Combines all the features and performance of cavity pass filters with three or more separate passbands and a common junction input/output. Used to combine receivers with a common antenna.



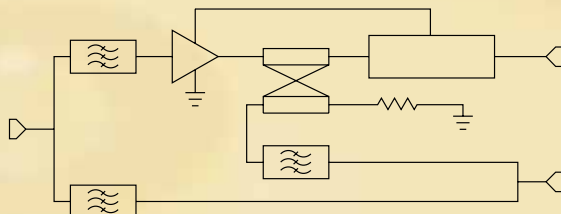
**DELAY LINE ASSEMBLIES**

Used to provide a fixed transmission time delay while providing very flat insertion loss in the passband. Otherwise, performance is similar to band pass cavity filters.



**BASE STATION FRONT END ASSEMBLIES**

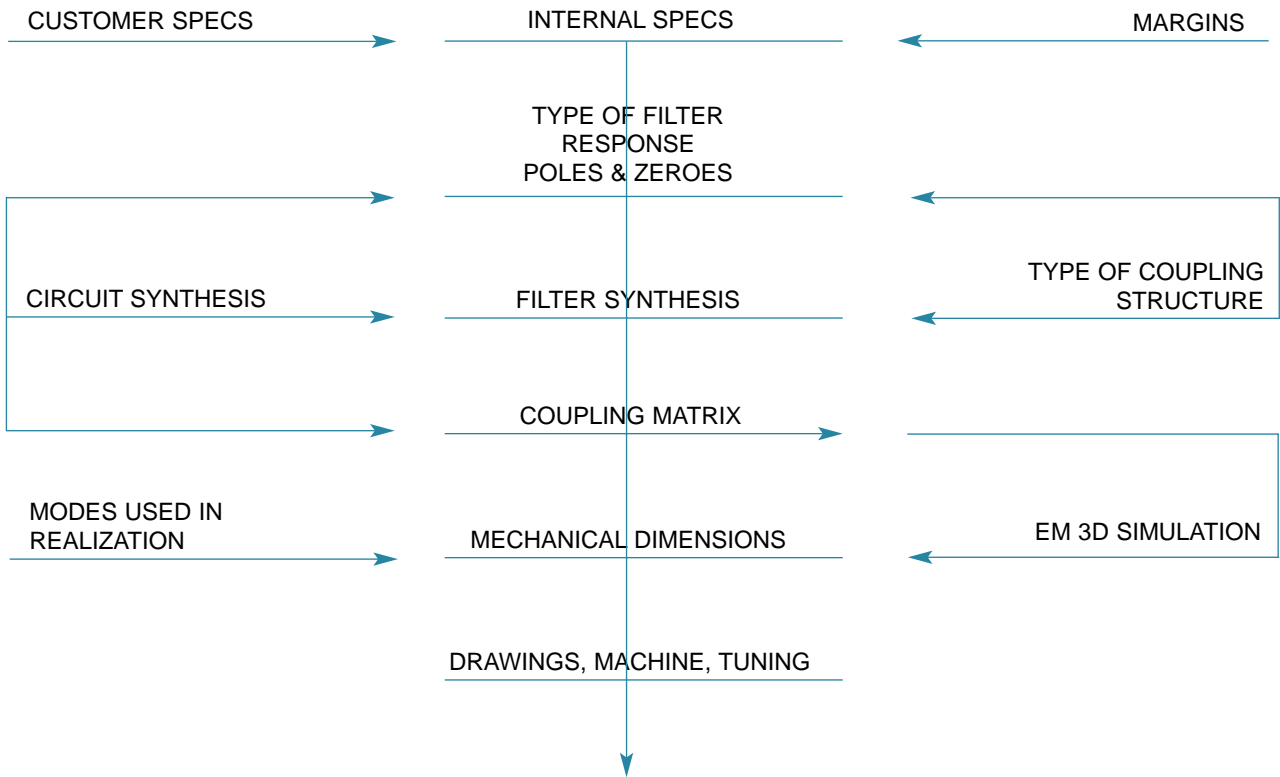
Multifunction, used to combine transmit and receive functions with a common antenna. Combines low noise amplifiers (LNA), monitor tee/bias, RF coupler ports, and lightning protection circuitry.



Our simulation software has been calibrated and adjusted from years of feedback to closely emulate actual performance.

This lets us start a new job the right way, the first time.

## DESIGN STEPS OVERVIEW



**WEB SITE**      [www.aeroflex.com/microwave](http://www.aeroflex.com/microwave)  
**TELEPHONE**      973-887-8100 ext 268



Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.