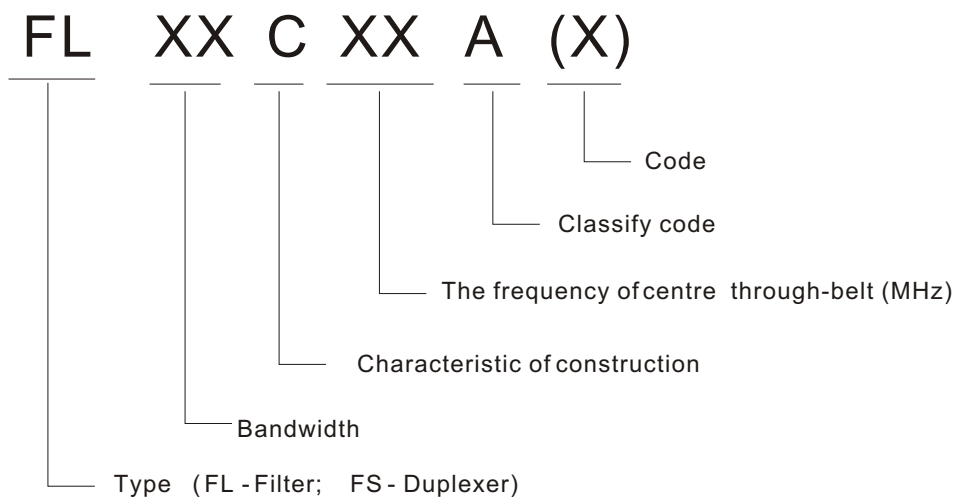


Filter/Duplexer

Filter/Duplexer is one of the important components of microwave system that is used to choose different frequency and restrain needless frequency signal. Products are mainly used to relay communications, satellite communications, radar, electronic counterwork and microwave testing. CLEC Filter/Duplexer have variety of types and competitive price. They are used to CDMA, GSM, numeric module, WCDMA and ETS etc. The different outline size according to different frequency in order to satisfy requirements of different customers.

Naming of band-pass filter



Filter

E.g. FL30P1.6C1 means:

30MHz belt-width, center frequency 1600MHz. It is firstly improved from the third figure or theology target.

(from C we can see this kind of filter has less than 3 types, the 1 after 3 means the first improved based on the third type).

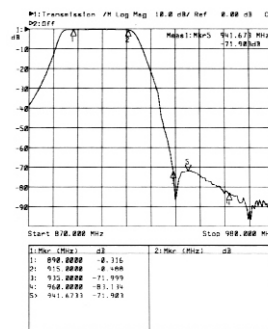
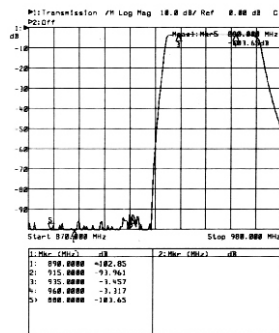
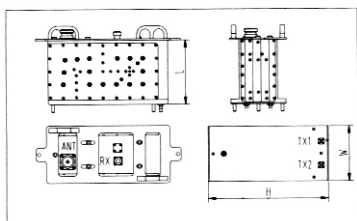
Duplexer

Characteristic of construction: C - cavity, p - peptination.

e.g. 830/875 means receiving of the frequency of center through-belt is 875MHz; when the frequency can omit when upto G: e.g. 1680MHz can short of 1.68; 1800MHz can short of 1.8.

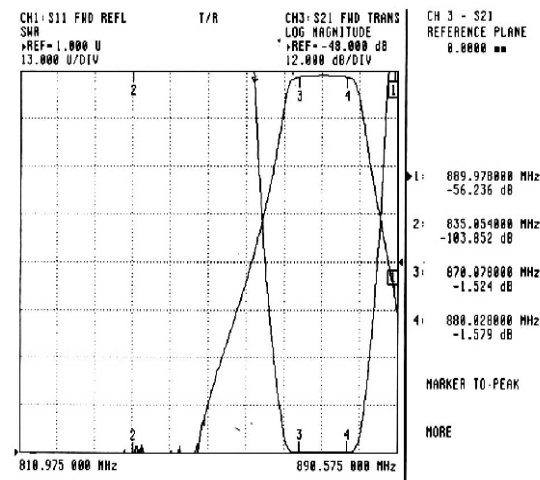
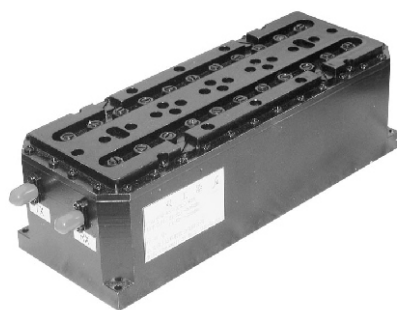
Duplexre-Combiner Unit For GSM

Specifications	FS-25C902/947		FS-75C1747/1842	
	Receive RX	Transmit TX	Receive RX	Transmit TX
Operating Frequency (MHz)	890-915	935-960	1710-1785	1805-1880
ANT to RX	Insertion loss (dB)	≤0.5		
	Return loss (dB)	≥18		
	Out Band Attenuation(dB)	≥14@880MHz ≥70@935-960MHz	≥35@1805-1880MHz	
Tx to ANT	Insertion loss (dB)	≤4.2		
	In Band Ripple (dB)	≤0.5		
	Return loss (dB)	≥18		
	Out Band Attenuation (dB)	≥80@500-880MHz	≥80@1710-1785MHz	
		≥80@890-915MHz	≥20@1900-1980MHz	
≥70@1710-1920MHz		≥60@-2100-6000MHz		
≥50@1920-12750MHz		≥35@6000-12750MHz		
Isolation	Tx to Rx (dB)	≥80@890-915MHz	≥80@1710-1785MHz	
	Rx to ANT(dB)	≥70@935-960MHz	≥35@1805-1880MHz	
	Tx1to tx2 (dB)	≥22@935-960MHz	≥22@1805-1880MHz	
Power Capacity (W)	200			
Dimension (mm)	303x181x120			
Connector	SMA-KF;7/16-KF			



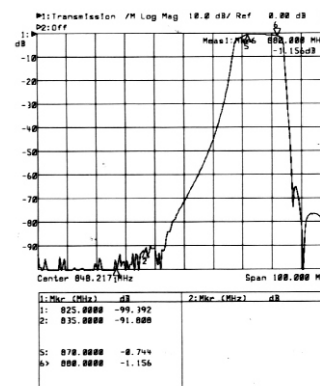
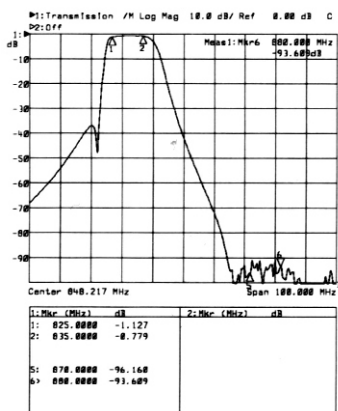
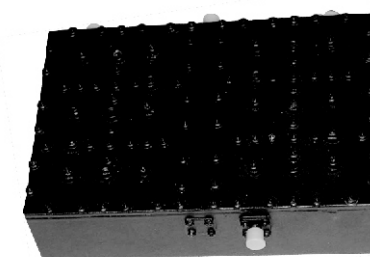
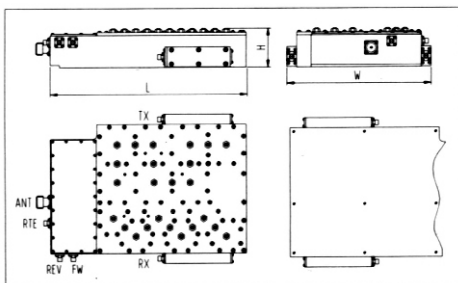
Duplexer For CDMA

Specifications	FS-10C830/875	
	Receive RX	Transmit TX
Operating Frequency (MHz)	825-835	870-880
Insertion loss (dB)	≤ 1.6	
Return loss (dB)	≥ 20	
In Band Ripple (dB)	≤ 0.6	
Out Band Attenuation (dB)	≥ 10@822.5MHz	≥ 10@867.5MHz
	≥ 10@837.5MHz	≥ 10@882.5MHz
	≥ 50@815MHz	≥ 50@860MHz
	≥ 50@845MHz	≥ 50@890MHz
	≥ 100@870MHz	≥ 100@835MHz
Isolation	≥ 95@870-880MHz	≥ 95@825-835MHz
	≥ 80@900-3000MHz	≥ 80@960-3000MHz
Power Capacity (W)	50	
Dimension (mm)	190x80x65	
Connector	SMA-K (N, TNC)	



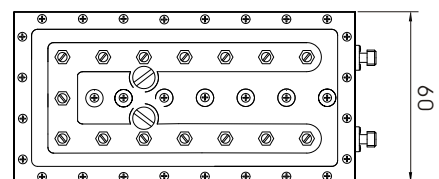
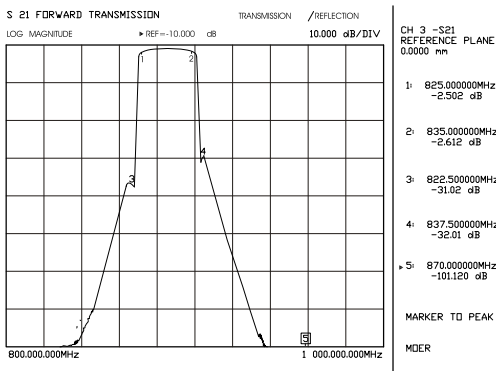
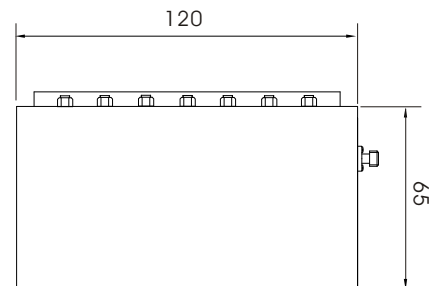
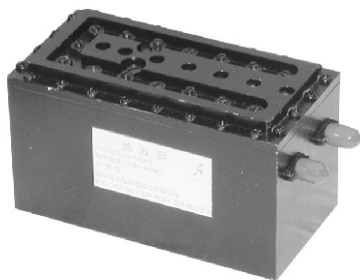
Duplexer-Coupler Unit For CDMA

Specifications	FS-10C830/875A		FS-35C836/885	
	Receive RX	Transmit TX	Receive RX	Transmit TX
Operation Frequency (MHZ)	825-835	870-880	824-849	869-894
Insertion loss (dB)	≤1.2	≤1.4	≤1.0	≤1.0
Out Band Attenuation (dB)	≥20@DC-821MHz ≥90@870-880MHz ≥70@859-869MHz ≥50@0.9-6GHz	≥65@DC-821MHz ≥90@825-835MHz ≥60@885-890MHz ≥60@890-6GHz	≥75@DC-810MHz ≥90@869-894MHz ≥65@2-3GHz ≥55@3-6GHz	≥95@DC-810MHz ≥90@824-849MHz ≥65@2-3GHz ≥55@3-6GHz
Return loss (dB)	≥18			
Coupling (dB)	30 ± 0.5			
Power Capacity (W)	200			
Dimension (mm)	260X191X50			
Connector	SMA-KF.N-KF			



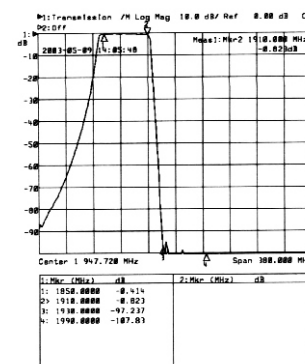
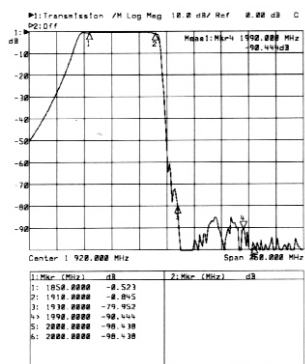
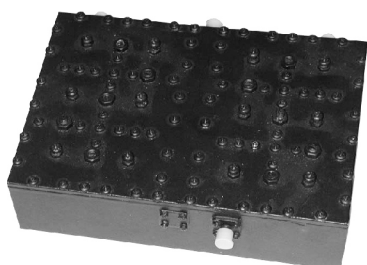
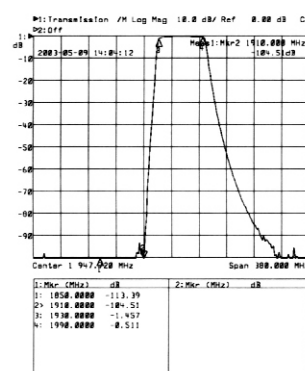
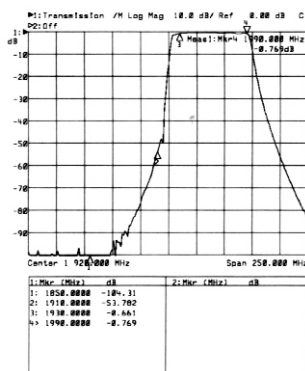
Filter For CDMA

Specifications	FL-10C830
	Receive RX
Operating Frequency (MHz)	825-835
Insertion loss (dB)	≤3.0
Return loss (dB)	≥20
In Band Ripple (dB)	≤1.0
Out Band Attenuation (dB)	≥30@822.5MHz
	≥30@837.5MHz
	≥50@815MHz
	≥50@845MHz
	≥100@870MHz
Power Capacity (W)	50
Dimension (mm)	120x60x65
Connector	SMA-K (N, TNC)



Duplexer For Tower Amplifier

Specifications	FS-40C1870/1960		FS-60C1880/1960T	
	Receive RX	Transmit TX	Receive RxA-C,B-D	TransmitTxA-B
Operating Frequency (MHz)	1850-1910	1930-1990	1850-1910	1930-1990
Insertion loss (dB)	≤1.1	≤1.4	≤1.0	≤0.8
Out Band Attenuation (dB)	≥90@1930 ± 1990MHz ≥90@1850 ± 1910MHz		A-C ≥70@1930-1990MHz B-D ≥70@1930-1990MHz A-B ≥70@1850-1910MHz	
Return loss (dB)	20		18	
Dimension (mm)	173X143X44		192X142X65	
Connector	SMA-KF		SMA-KF,N-KF	



Duplexer For GSM

Specifications	FS-24C897/942	
	RX	TX
Operating Frequency (MHz)	885-909	930-954
Insertion loss (dB)	≤1.6	≤1.7
Return loss (dB)	≥20	
In Band Ripple (dB)	≤0.6	
Out Band Attenuation (dB)	≥85@930MHz	≥10@927.5MHz
		≥10@956.5MHz
		≥55@920MHz
		≥55@964MHz
		≥90@909MHz
Power Capacity (W)	50	
Dimension (mm)	150x125x70	
Connector	SMA-KF	

