

Applications

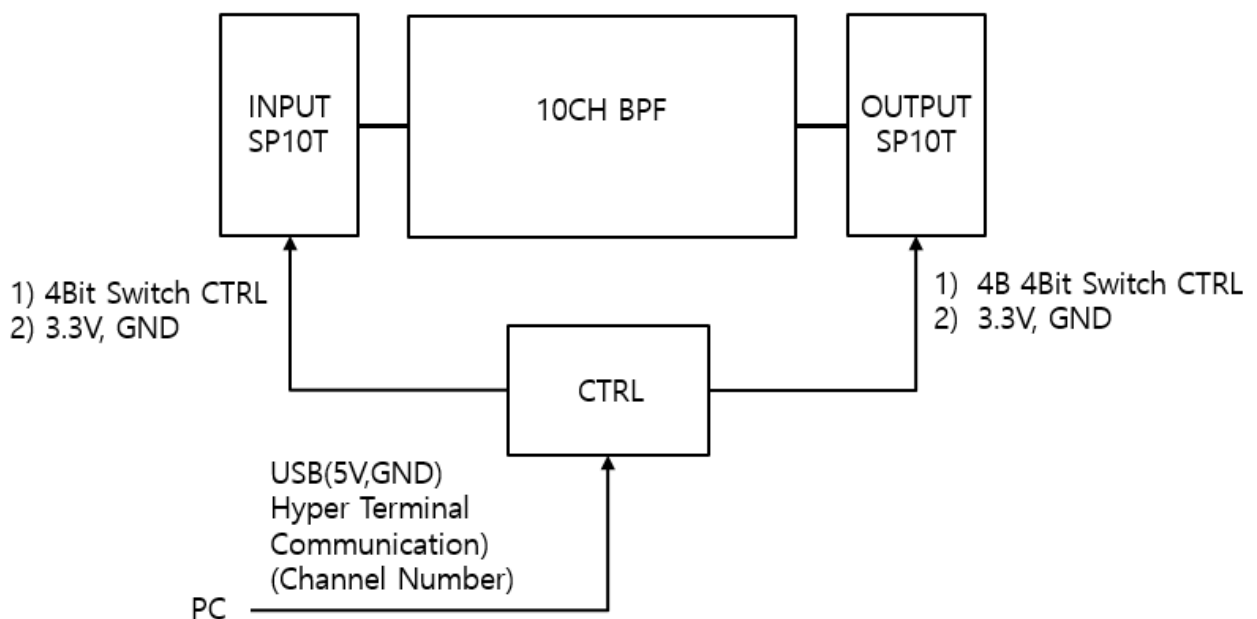
- Test and Measurement Equipment
- Industrial and Medical Equipment



Features

- Very easy LTE Band channel selection by USB Mini-B Type communication protocol from 700 MHz to 2600 MHz LTE frequency band [LTE band 1, 2, 4, 5, 7, 8, 13, 17, 20].
- Very low Insertion loss and Very compact size 10 Channel filter bank.

Functional Diagram



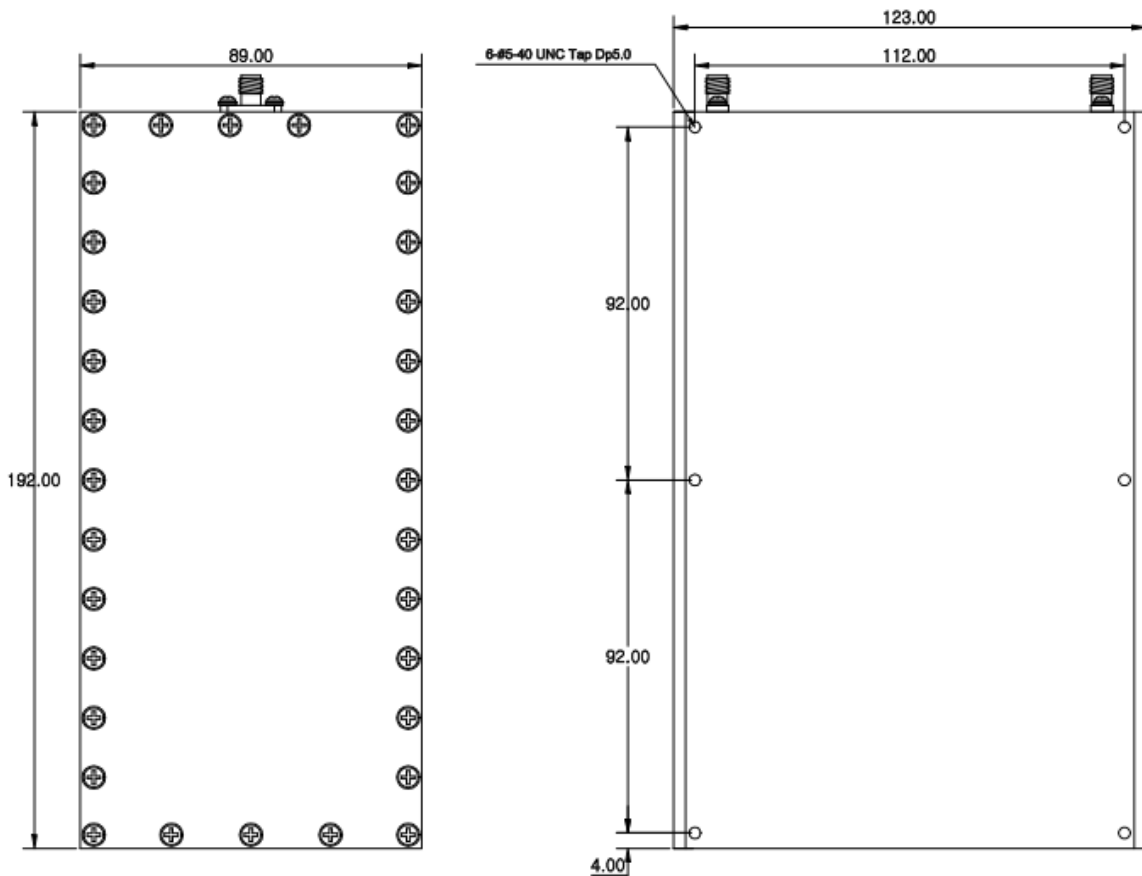
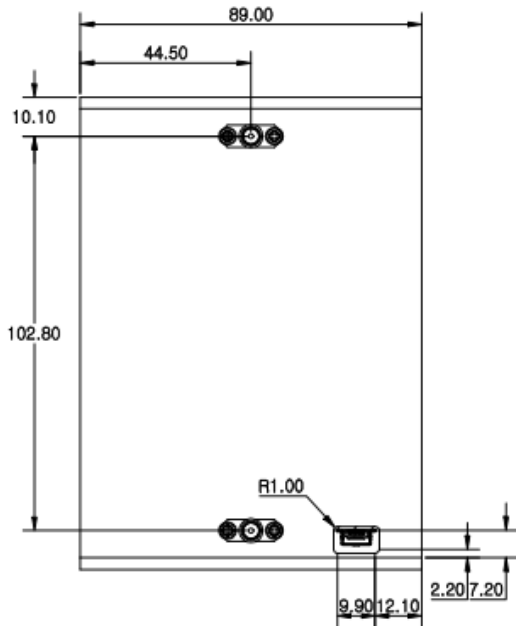
Discription

Switch Filter Bank is an array of band pass filters that spans the entire frequency spectrum. 10 Channel Filter Bank ADFB 700/2600-10CH is developed frequency band from 700 MHz to 2,600 MHz. Typical insertion loss is around 3 dB to 4 dB max. Size is very compact and ADFB 700/2600-10CH Filter Bank features high performance isolation characteristics and very fast switching time.

1. Electrical Specifications

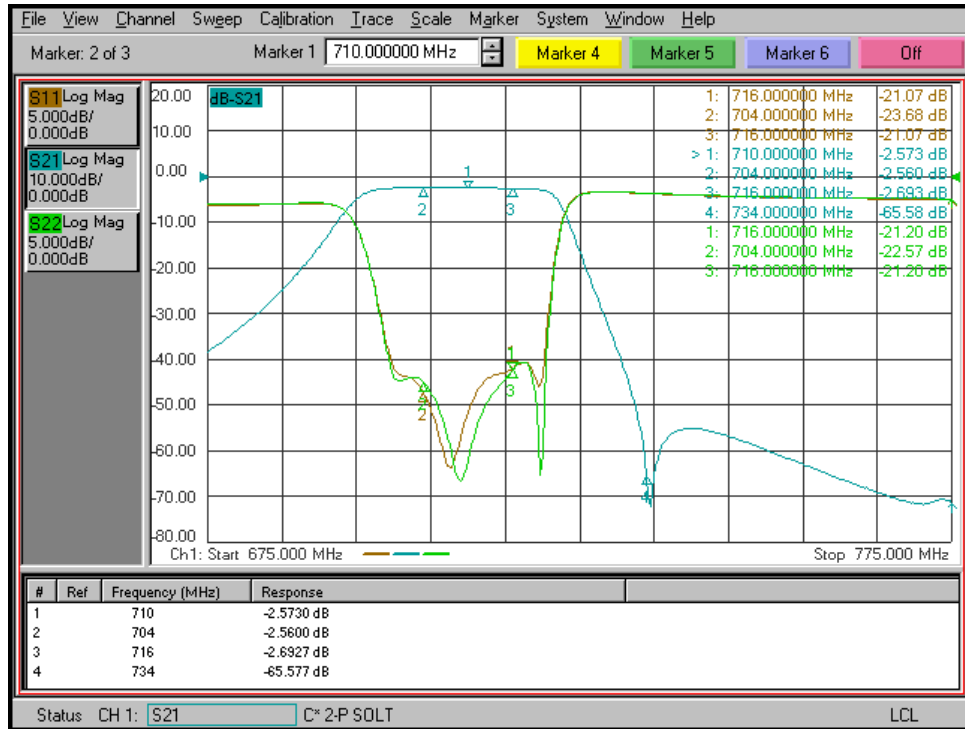
Parameters	Specifications	Remarks
Frequency range	700 MHz ~ 2,600 MHz	LTE Frequency Band
No. of Channel	10	
Insertion Loss	3.5 dB Typ., 4.5 dB Max.	
Passband Ripple	Max. 0.5 dB	
Return Loss	15.0 dB Min.	
Channel Rejection	40 dBc Min. @ desired channel rejection frequency band	
Maximum Input Power	2 W CW 20 dBm for hot switching	
Channel Pass Band frequency/ Rejection frequency	CH 1 : 704 ~ 716 MHz / 734 ~ 746 MHz	LTE Band 17 UL
	CH 2 : 777 ~ 787 MHz / 746 ~ 756 MHz	LTE Band 13 UL
	CH 3 : 824 ~ 849 MHz / 869 ~ 894 MHz	LTE Band 5 UL
	CH 4 : 832 ~ 862 MHz / 791 ~ 821 MHz	LTE Band 20 UL
	CH 5 : 880 ~ 915 MHz / 925 ~ 960 MHz	LTE Band 8 UL
	CH 6 : 1710 ~ 1755 MHz / 2110 ~ 2155 MHz	LTE Band 4 UL
	CH 7 : 1710 ~ 1785 MHz / 1805 ~ 1880 MHz	LTE Band 3 UL
	CH 8 : 1850 ~ 1910 MHz / 1930 ~ 1990 MHz	LTE Band 2 UL
	CH 9 : 1920 ~ 1980 MHz / 2110 ~ 2170 MHz	LTE Band 1 UL
	CH 10 : 2500 ~ 2570 MHz / 2620 ~ 2690 MHz	LTE Band 7 UL
Operating Temperature	-40 °C ~ +70 °C	
Dimension[WxDxH]	123.0 x 192.0 x 89.0 mm	Exclude Connectors
Input/Output RF Connectors	SMA Female	
Control Interface	USB Mini-B type	

2. Outline Drawings

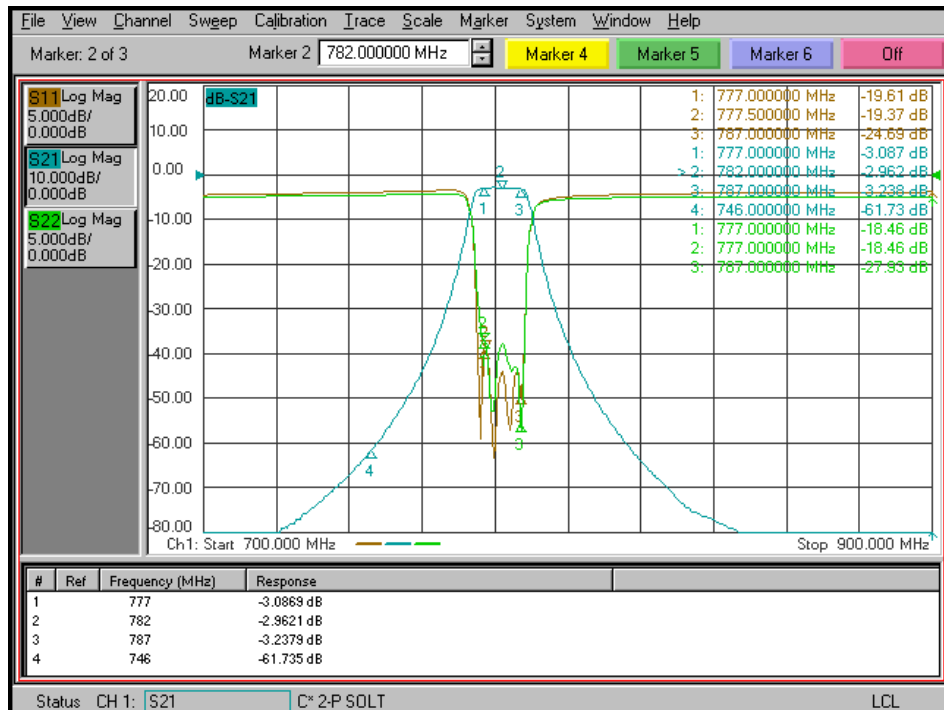


3. S-parameter Characteristics

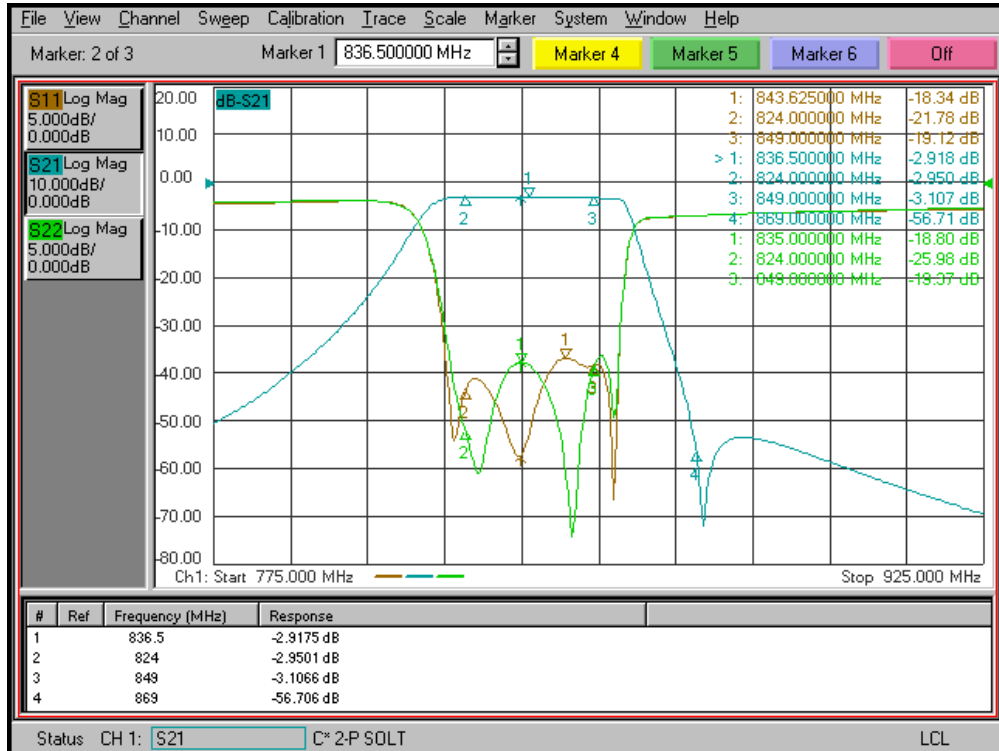
Ch.1



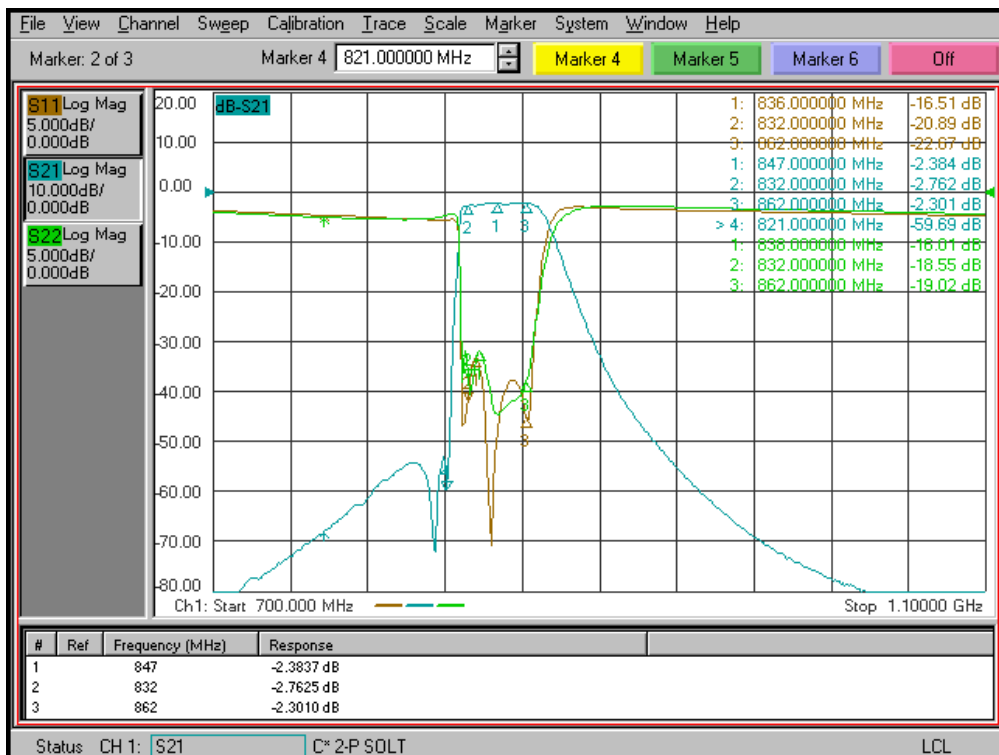
Ch.2



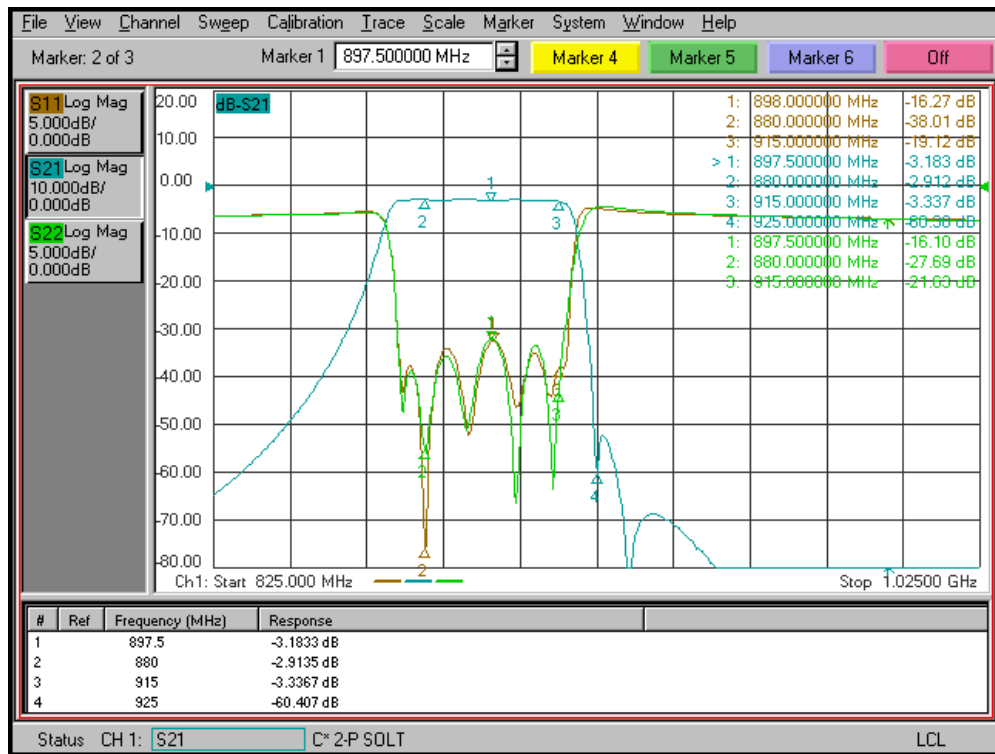
Ch.3



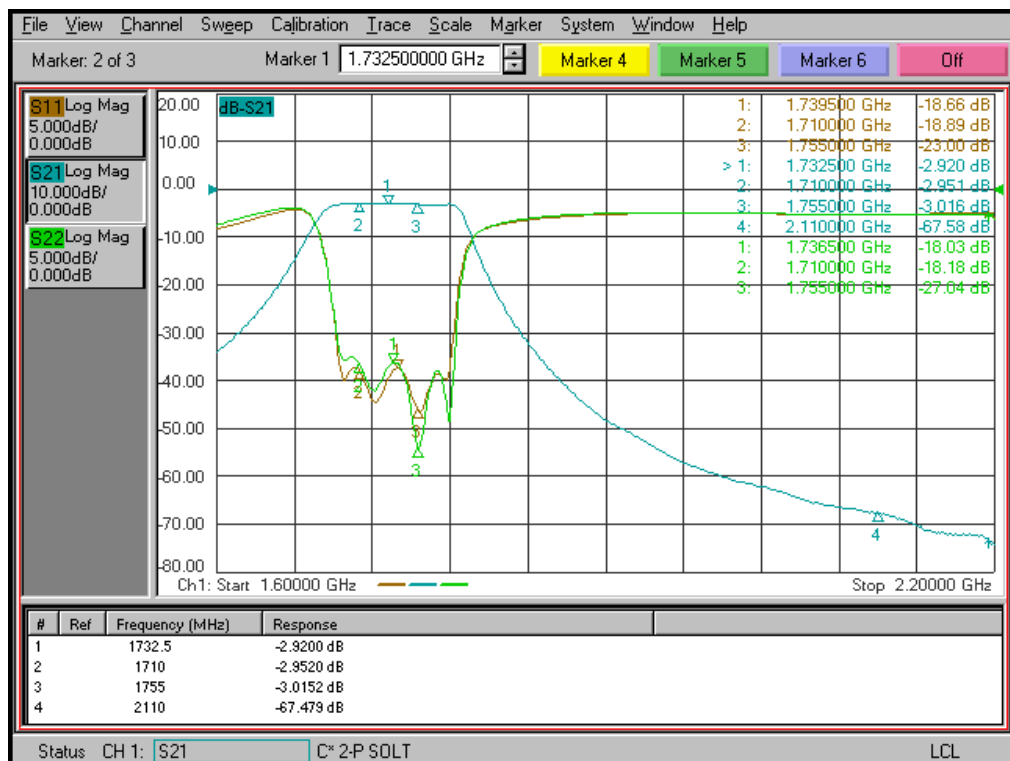
Ch.4



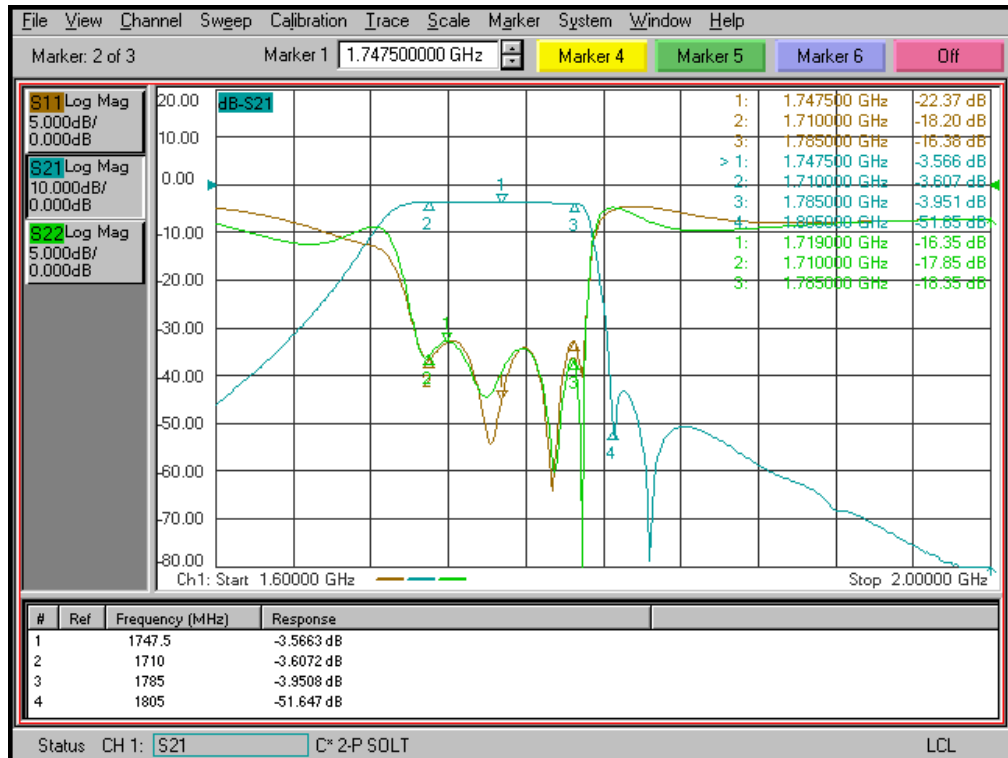
Ch.5



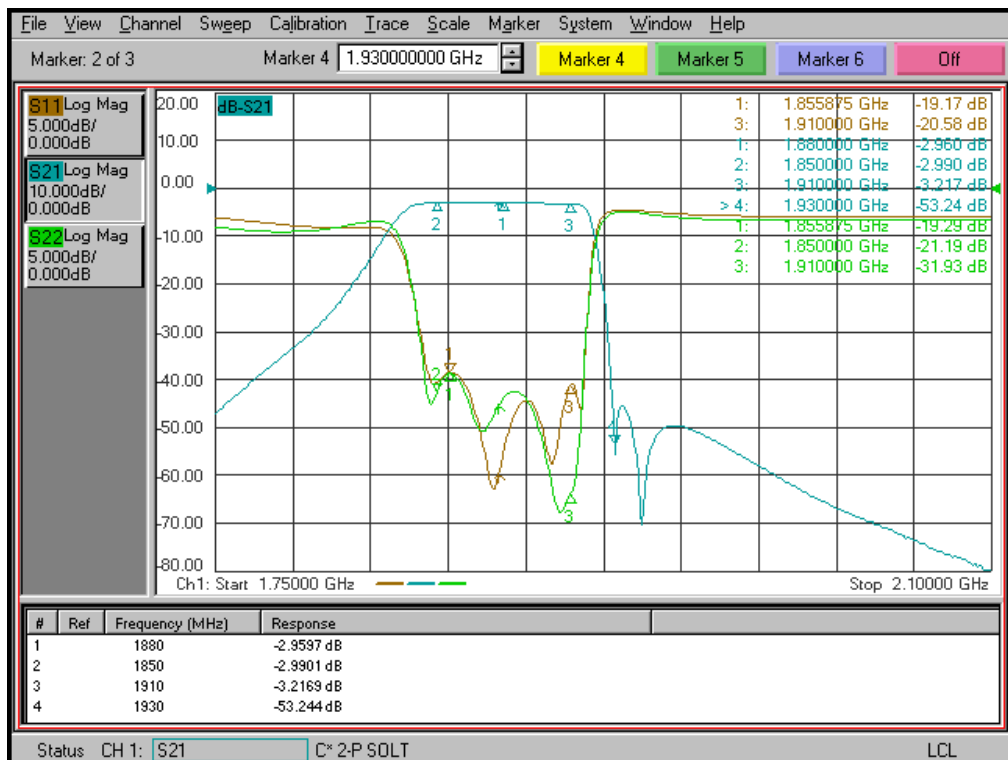
Ch.6



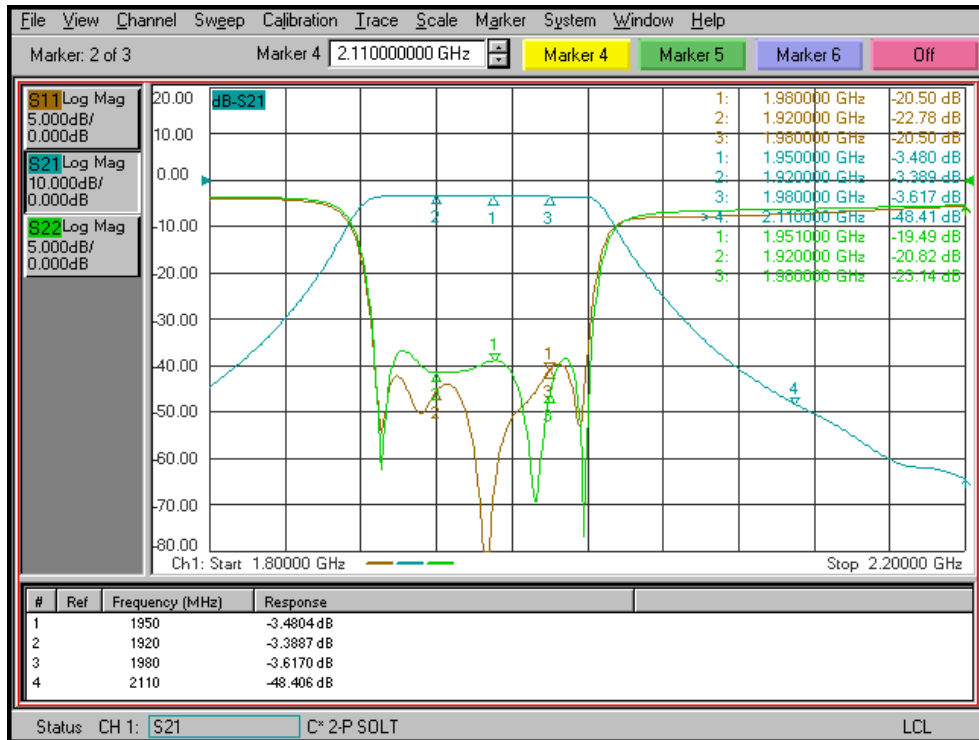
Ch.7



Ch.8



Ch.9



Ch.10

