



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

707 / 742.5 / 782 / 833 / 878 MHz
Ceramic 5Plex Multiplexer

Part Number:
AE707-742-782-833-878MP1004



ITEMS		CH 1		CH 2		CH 3		CH 4		CH 5	
		Typ	Spec 25°C	Typ	Spec 25°C	Typ	Spec 25°C	Typ	Spec 25°C	Typ	Spec 25°C
Center Frequency		707 MHz		742.5 MHz		782 MHz		833 MHz		878 MHz	
Bandwidth		698~716 MHz		728 ~ 757 MHz		777 ~ 787 MHz		817 ~ 849 MHz		862~894 MHz	
Insertion Loss		3.1 dB	3.5 dB Max	3.1 dB	3.5 dB Max	3.0 dB	3.4 dB Max	2.7 dB	3.1 dB Max	3.5 dB	3.9 dB Max
Ripple		1.4 dB	1.7 dB Max	1.2 dB	1.5 dB Max	0.4 dB	0.7 dB Max	1.0 dB	1.3 dB Max	2.1 dB	2.4 dB Max
Return Loss		19 dB	17 dB Min	19 dB	17 dB Min	19 dB	17 dB Min	19 dB	17 dB Min	19 dB	17 dB Min
Return Loss Antenna Port		19 dB	17 dB Min	19 dB	17 dB Min	19 dB	17 dB Min	19 dB	17 dB Min	19 dB	17 dB Min
Attenuation	698~ 716 MHz	-	-	75 dB	65 dB Min	52 dB	50 dB Min	52 dB	50 dB Min	55 dB	50 dB Min
	728~757 MHz	60 dB	55 dB Min	-	-	52 dB	50 dB Min	50 dB	47 dB Min	55 dB	50 dB Min
	777~787 MHz	70 dB	60 dB Min	70 dB	67 dB Min	-	-	55 dB	50 dB Min	55 dB	50 dB Min
	817~849 MHz	60 dB	55 dB Min	80 dB	70 dB Min	51 dB	49 dB Min	-	-	63 dB	60 dB Min
	862~894 MHz	65 dB	55 dB Min	80 dB	70 dB Min	60 dB	55 dB Min	50 dB	47 dB Min	-	-
	1700~2200 MHz	70 dB	60 dB Min	60 dB	50 dB Min	70 dB	60 dB Min	-	-	-	-
	1648~1698 MHz	-	-	-	-	-	-	60 dB	50 dB Min	60 dB	60 dB Min
Isolation	CH1-CH2 (720~724 MHz)	58 dB Min									
	CH2-CH3 (765~769 MHz)	58 dB Min									
	CH4-CH5 (853.5~857.5 MHz)	50 dB Min									
	CH4-CH5 (817~849 MHz)	55 dB Min (Typ, 60 dB)									
	CH1-CH2/CH2-CH3 (698~716 MHz) (777~787 MHz)	60 dB Min (Typ, 62 dB)									
	CH4-CH5 (817~849 MHz)	62 dB Min (Typ, 64 dB)									
	CH4-CH5 (862~894 MHz)	52 dB Min (Typ, 52 dB)									
Midband Isolation		40 dB min @ 716-729, 756-777, and 849-862MHz									
Input Power (Max)		6 Watts									
Operating Temperature		-40°C to +85°C									
In/Out Impedance		50 Ω									



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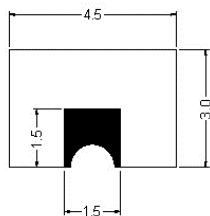
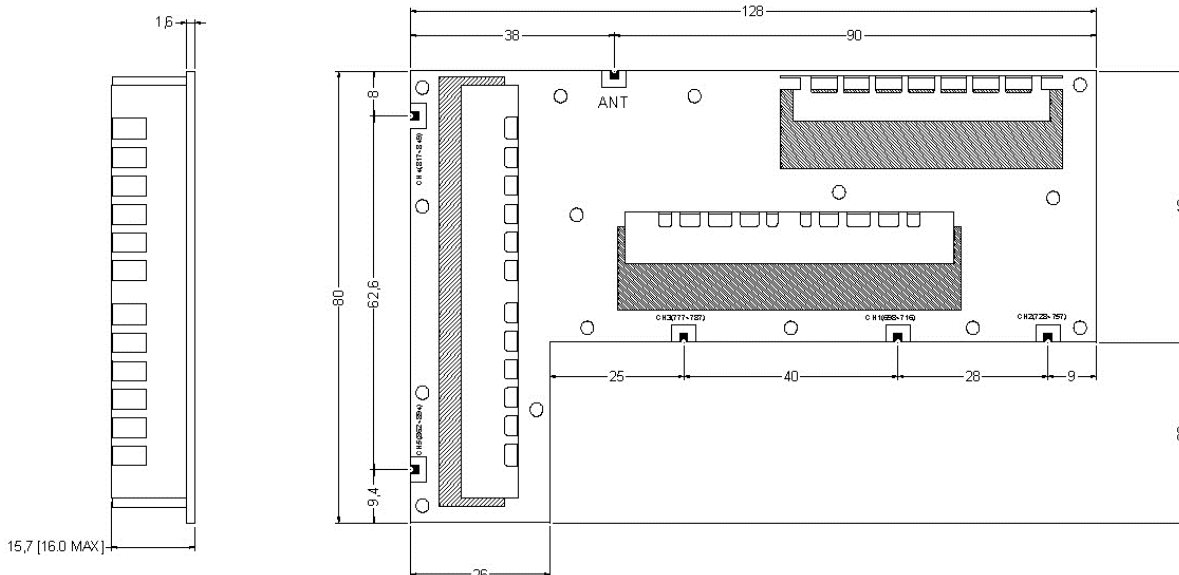
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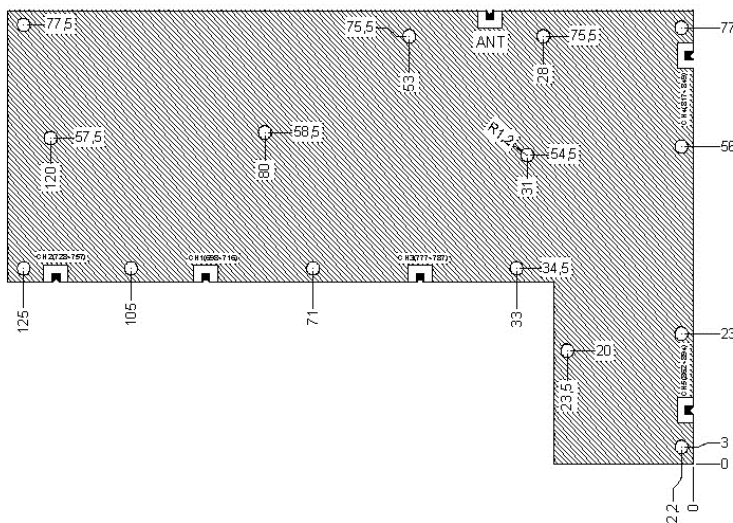
Outline Drawing:

TOP VIEW



I/O PORT ■
GND ▨

BOTTOM VIEW





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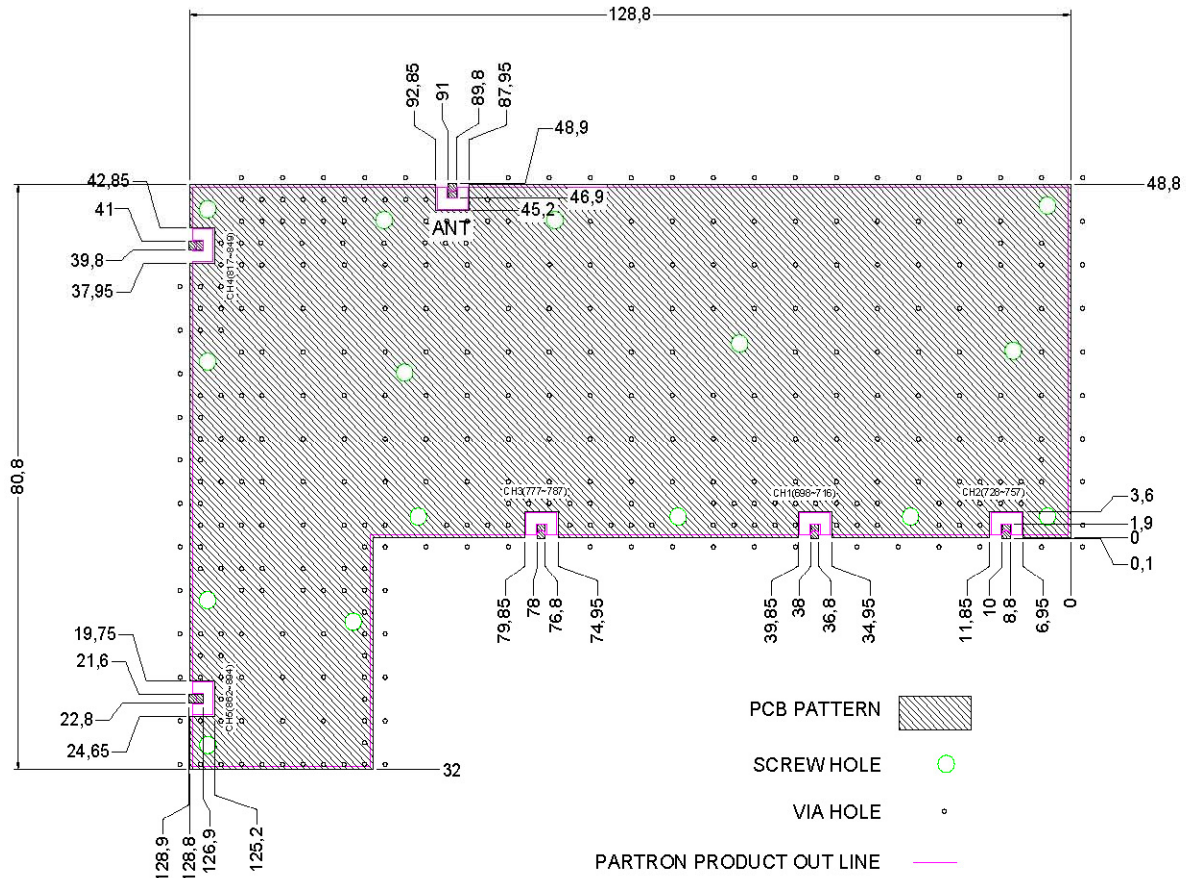
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PCB Layout:

TOP VIEW





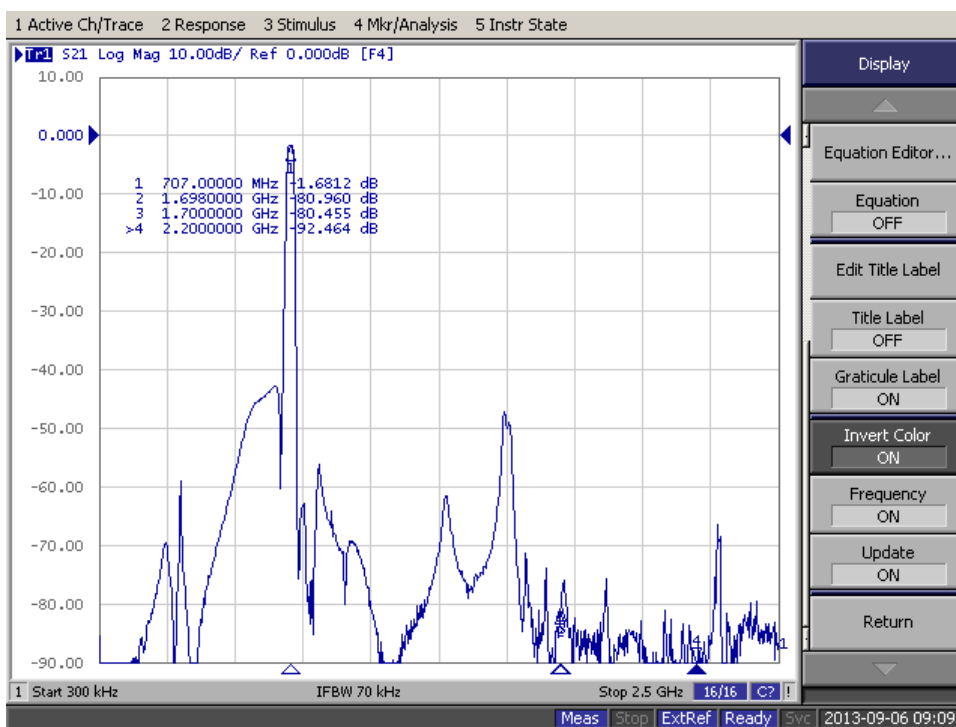
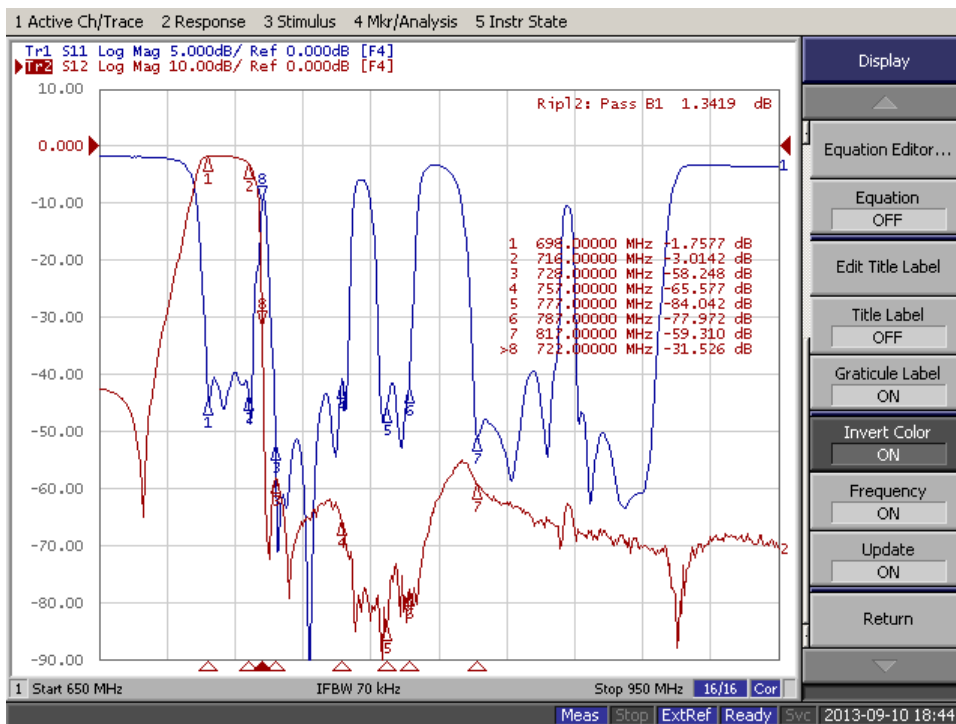
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Response Plot (CH1):





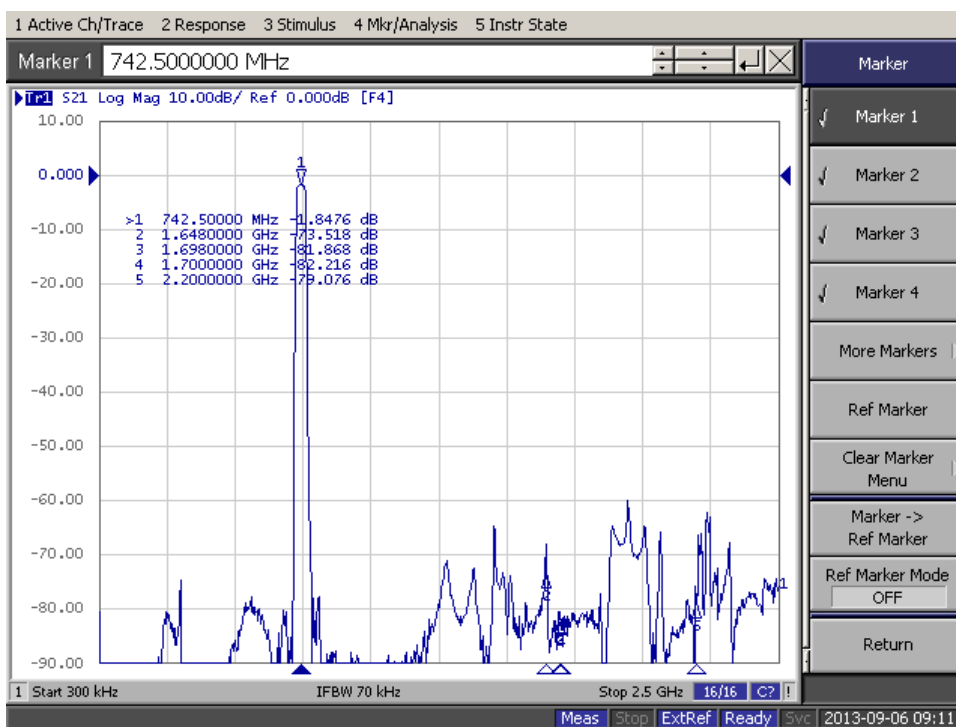
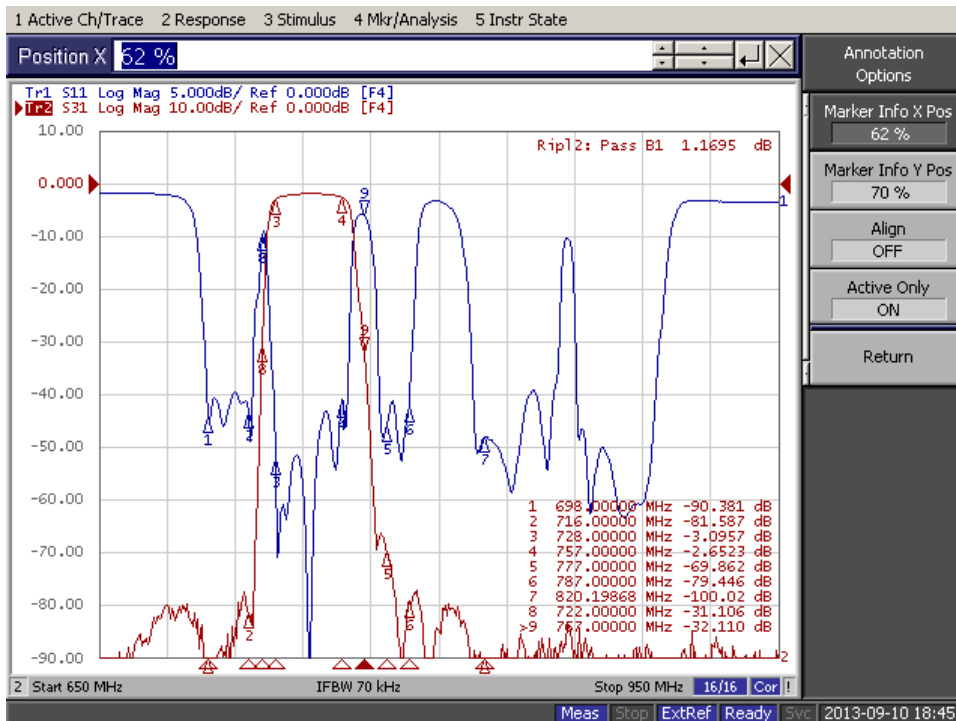
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Response Plot (CH2):





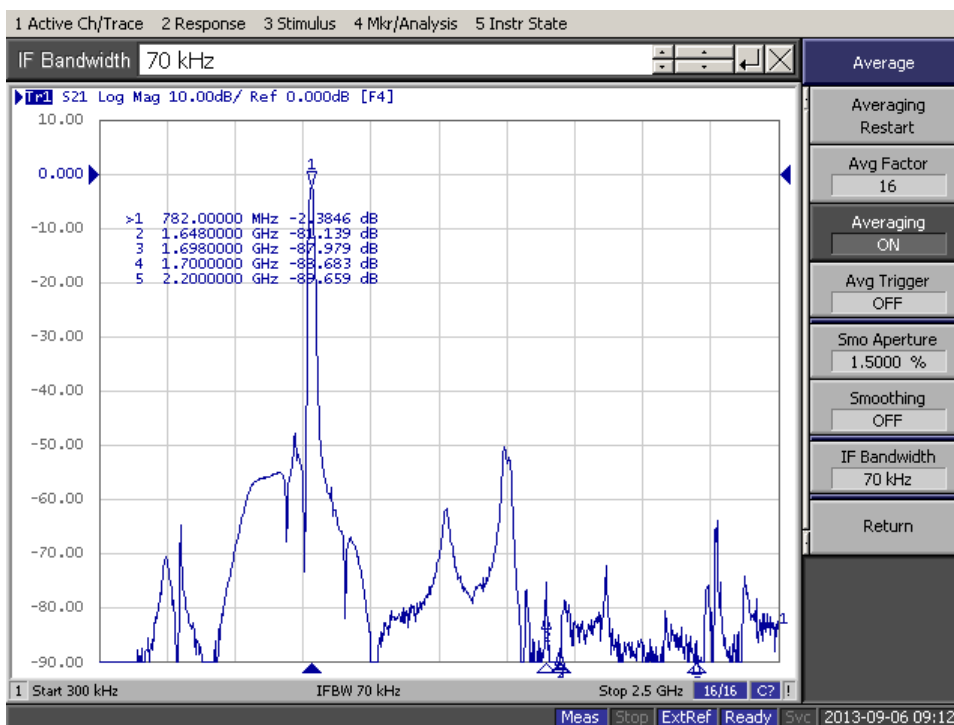
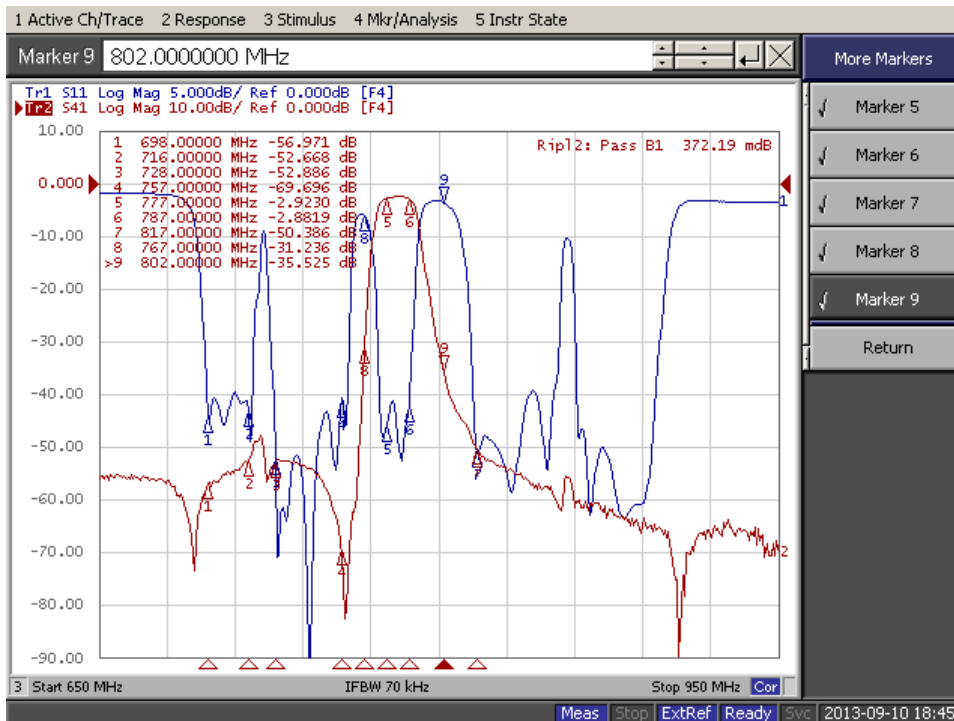
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Response Plot (CH3):





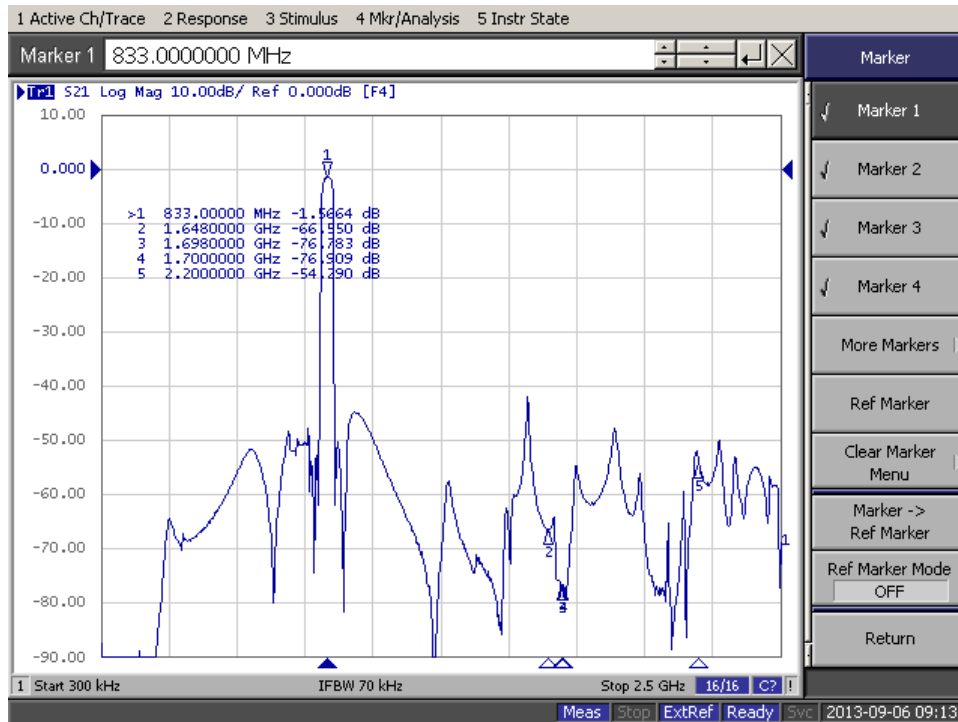
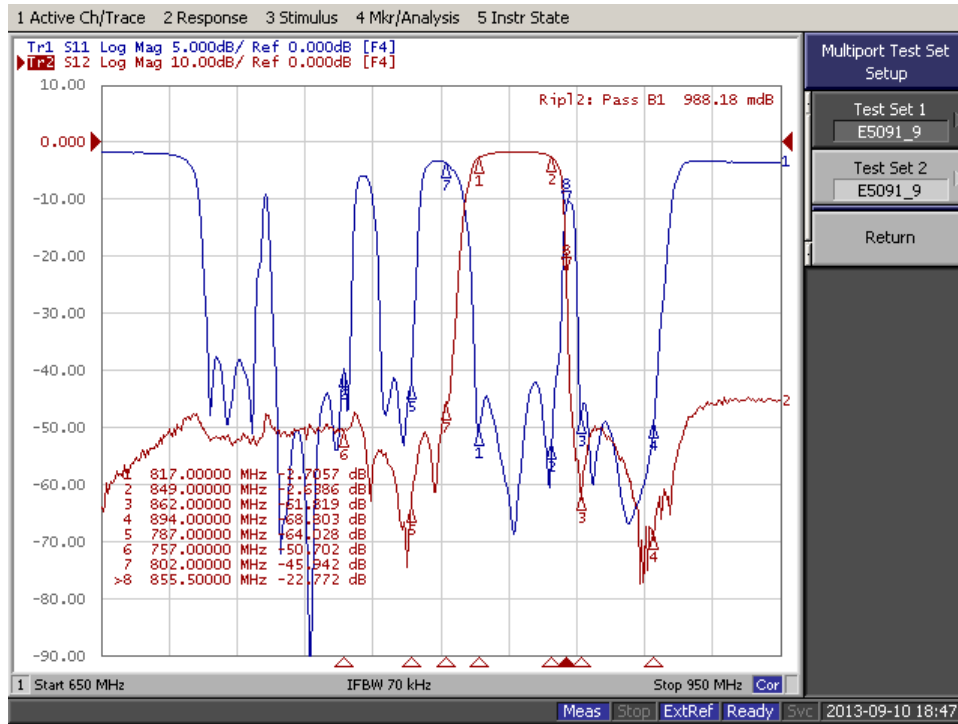
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Response Plot (CH4):





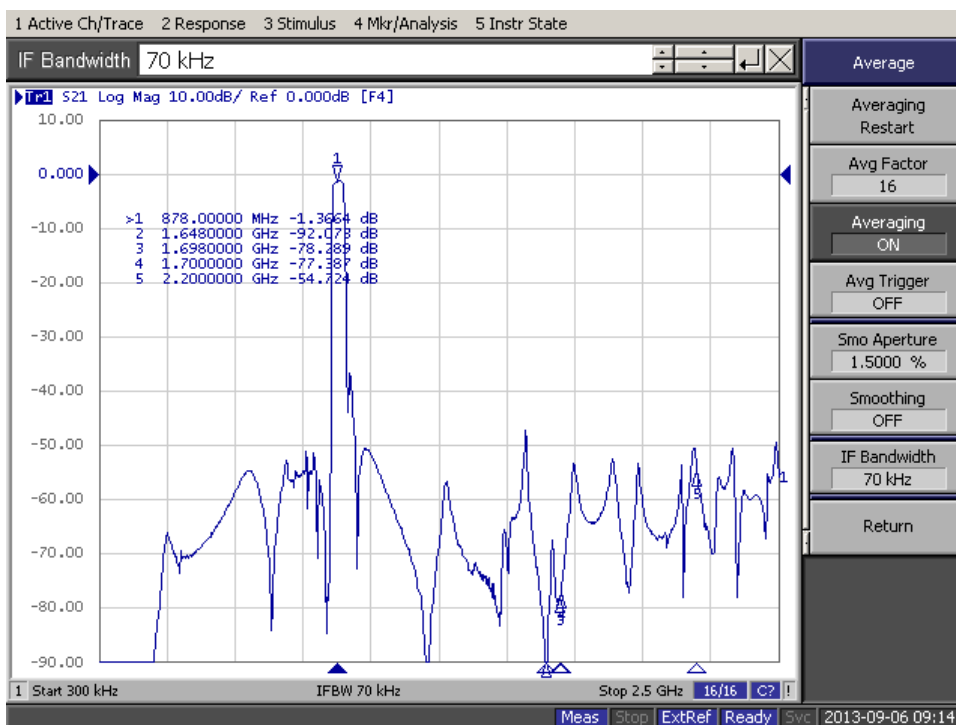
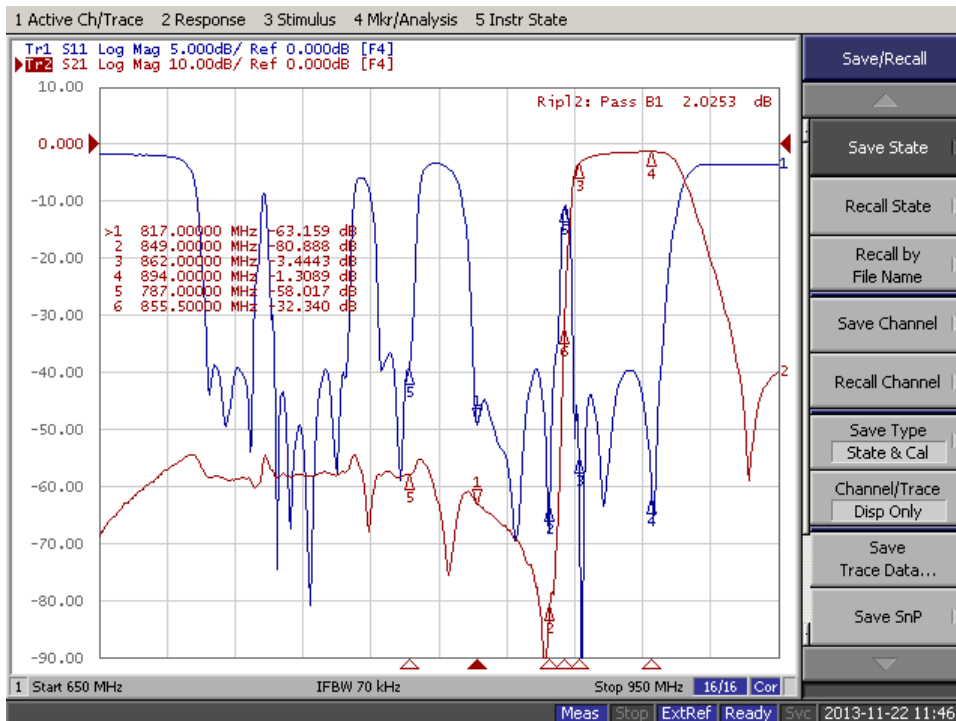
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Response Plot (CH5):





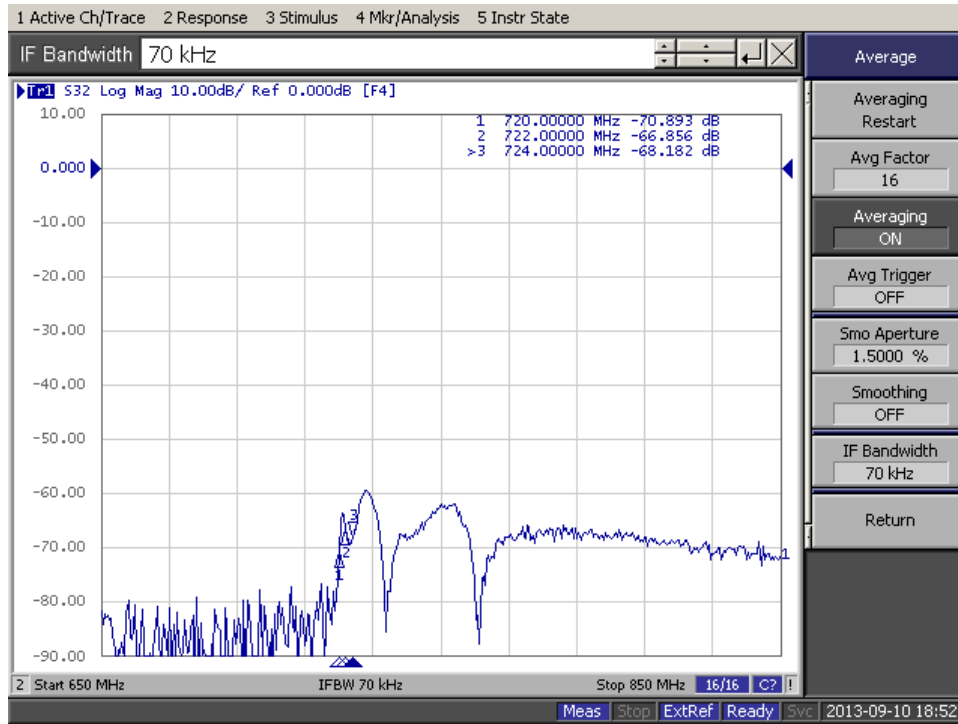
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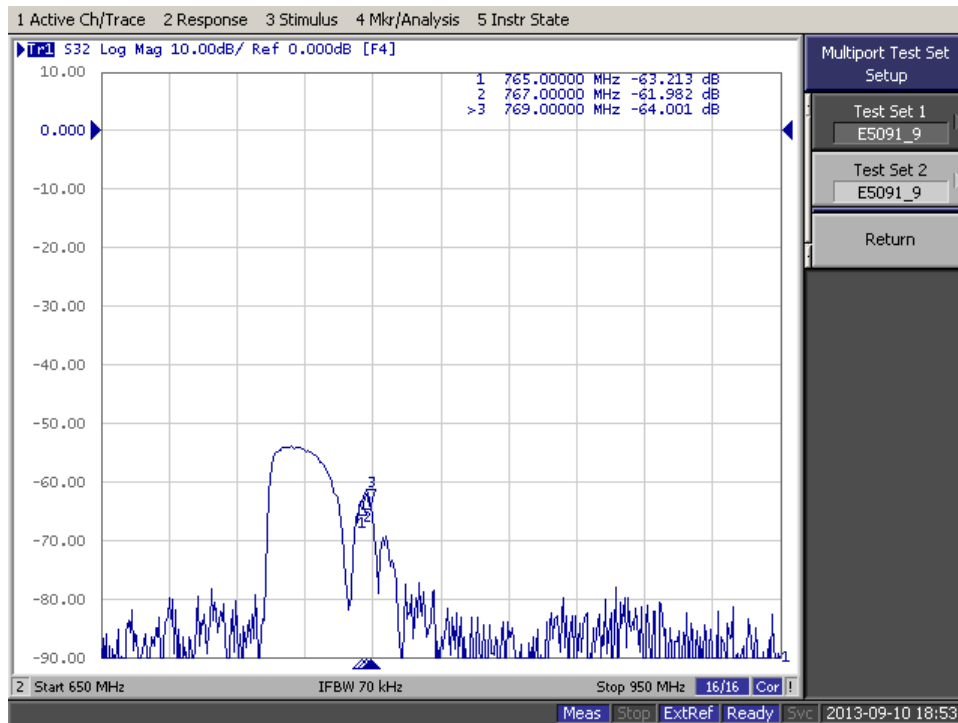
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Response Plot (CH1 <-> CH2 Isolation):



Response Plot (CH2 <-> CH3 Isolation):





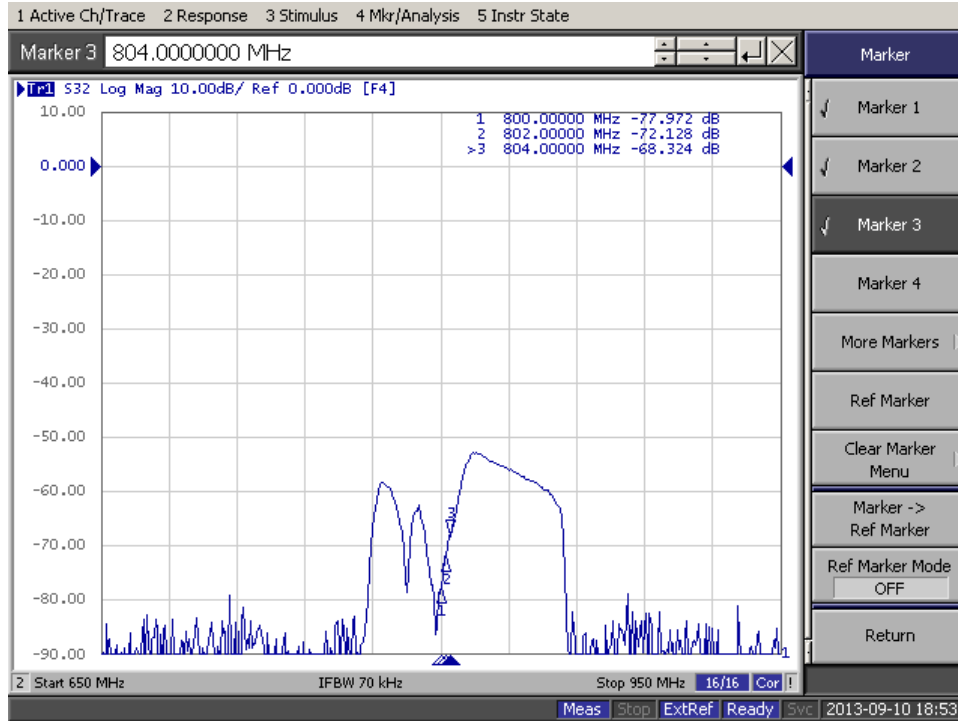
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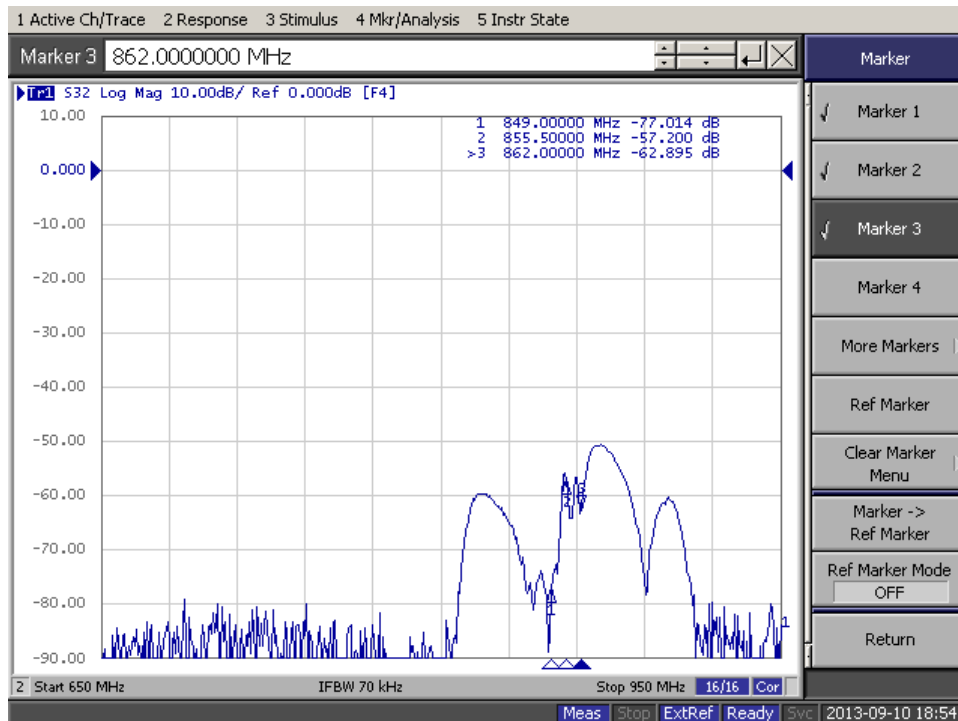
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Response Plot (CH3 <-> CH4 Isolation):



Response Plot (CH4 <-> CH5 Isolation):





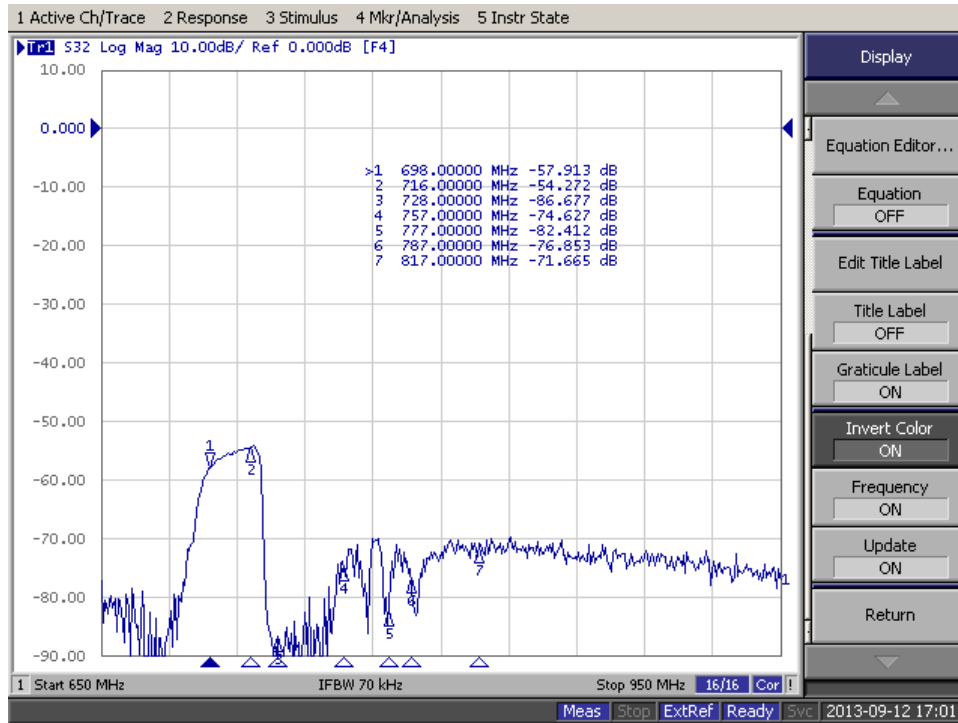
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Response Plot (CH1 <-> CH3 Isolation):



Response Plot (CH4 <-> CH5 Isolation):

