



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

1882.5 / 1962.5 / 2132.5 / 1732.5 MHz Ceramic Quad Multiplexer

Part Number:
AE1882-1962-2132-1732MP1005



Electrical Specifications:

Center Frequency		1882.5 MHz (CH1)		1962.5 MHz (CH2)		2132.5 MHz (CH3)		1732.5 MHz (CH4)	
Bandwidth		1850 ~ 1915 MHz		1930 ~ 1995 MHz		2110 ~ 2155 MHz		1710 ~ 1755 MHz	
Insertion Loss (Fo)		4.4 dB Typ.	4.5 dB Max	5.8 dB Typ.	6.2 dB Max	2.0 dB Typ.	2.2 dB Max	1.7 dB Typ.	1.9 dB Max
Ripple		2.0 dB Typ.	2.6 dB Max	3.5 dB Typ.	4.0 dB Max	0.3 dB Typ.	0.6 dB Max	0.4 dB Typ.	0.6 dB Max
Return Loss		16.0 dB Typ.	15.0 dB Min	16.0 dB Typ.	15.0 dB Min	16.0 dB Typ.	14.0 dB Min	16.0 dB Typ.	14.0 dB Min
Attenuation		DC~850 MHz	70.0 dB Min	DC~1845 MHz	63.0 dB Min	600~1000 MHz	55.0 dB Min	600~100 MHz	48.0 dB Min
		851~1846 MHz	TBD	1850~1864 MHz	80.0 dB Min	1850~1910 MHz	50.0 dB Min	1850~1910 MHz	50.0 dB Min
		1919~1927 MHz	5.0 dB Min	1866~1915 MHz	80.0 dB Min	1710~1755 MHz	58.0 dB Min	1930~1990 MHz	52.0 dB Min
		1930~1995 MHz	45.0 dB Min	1920~1926 MHz	5.0 dB Min	-		2110~2155 MHz	57.0 dB Min
		1998~2550 MHz	45.0 dB Min	-					
Isolation	CH1<->CH4	60 dB min @ 1710 ~ 1755 MHz							
		45 dB min @ 1755 ~ 1850 MHz (Cross Over Isolation)							
	CH1<->CH2	80 dB min @ 1850 ~ 1915 MHz							
		42 dB min @ 1915 ~ 1930 MHz (Cross Over Isolation)							
		54 dB min @ 1930 ~ 1995 MHz							
	CH2<->CH3	56 dB min @ 1995 ~ 2110 MHz (Cross Over Isolation)							
		60 dB min @ 2110 ~ 2155 MHz							
Input Power (Max)		3 Watts							
Operating Temperature		-40°C to +85°C							
In/Out Impedance		50 Ω							



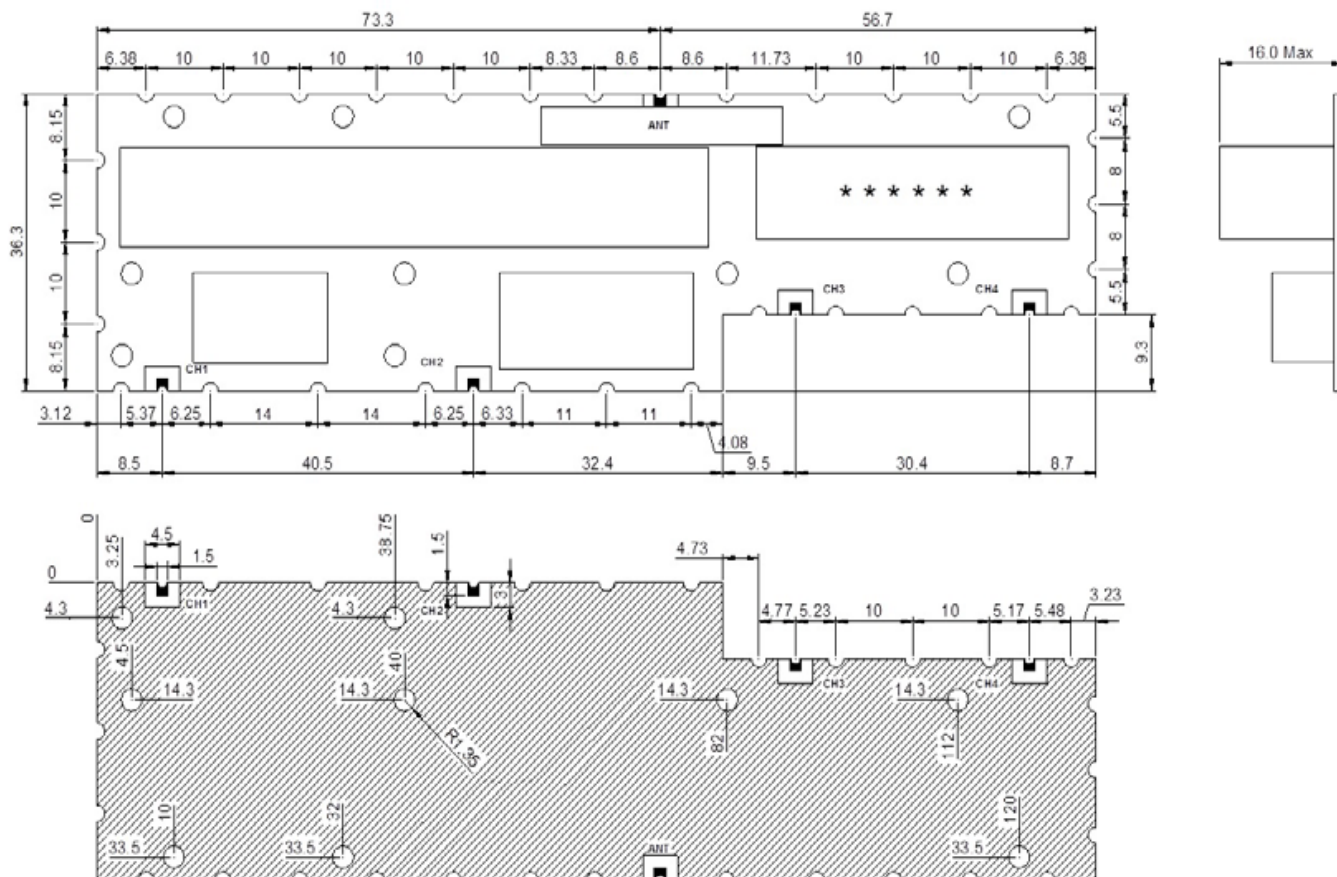
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Outline Drawing:





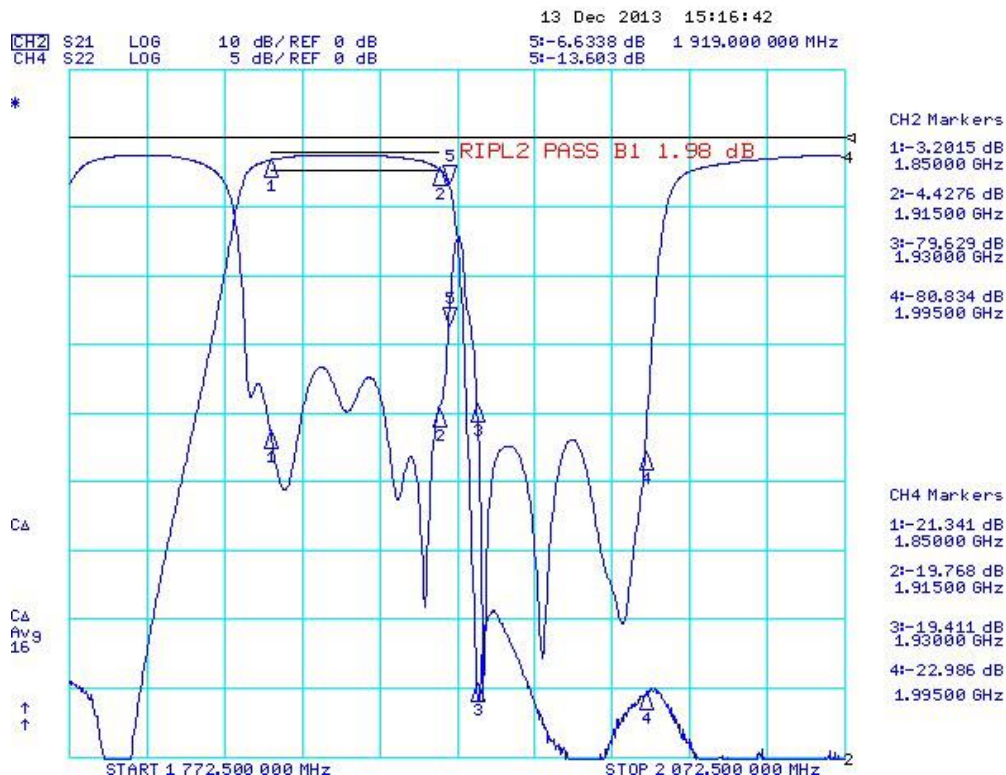
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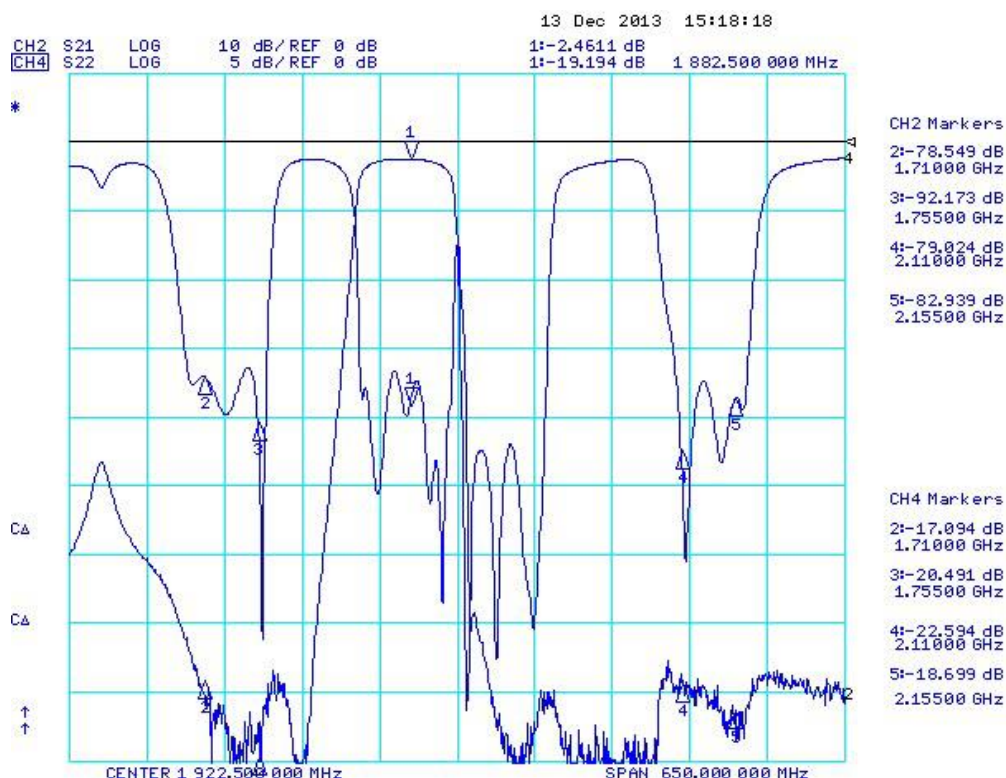
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Response Plot:



CH 1
I/L
RIPPLE
ATT
R/L



CH 1
ATT



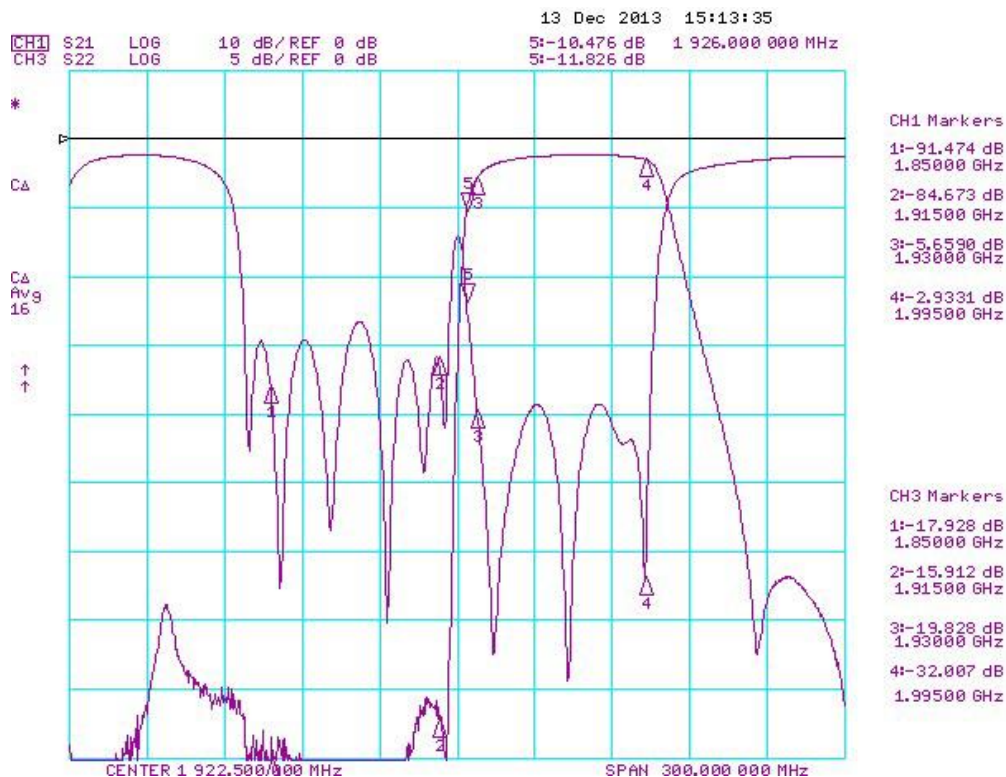
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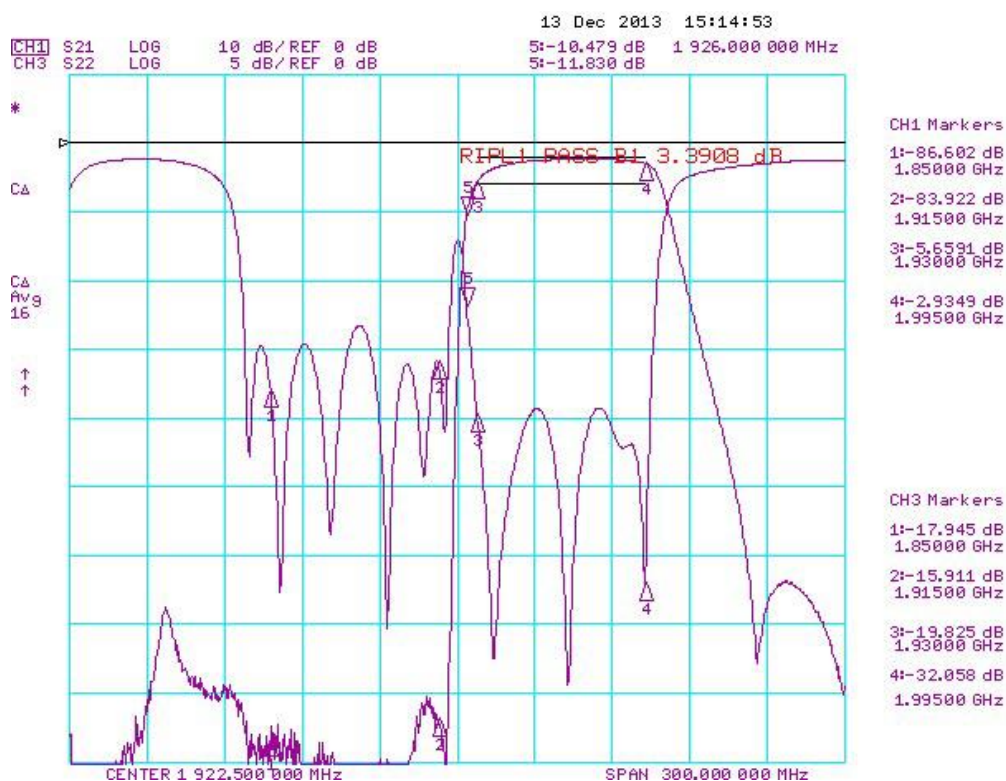
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Response Plot:



CH 2
I/L
R/L
ATT



CH 2
RIPPLE



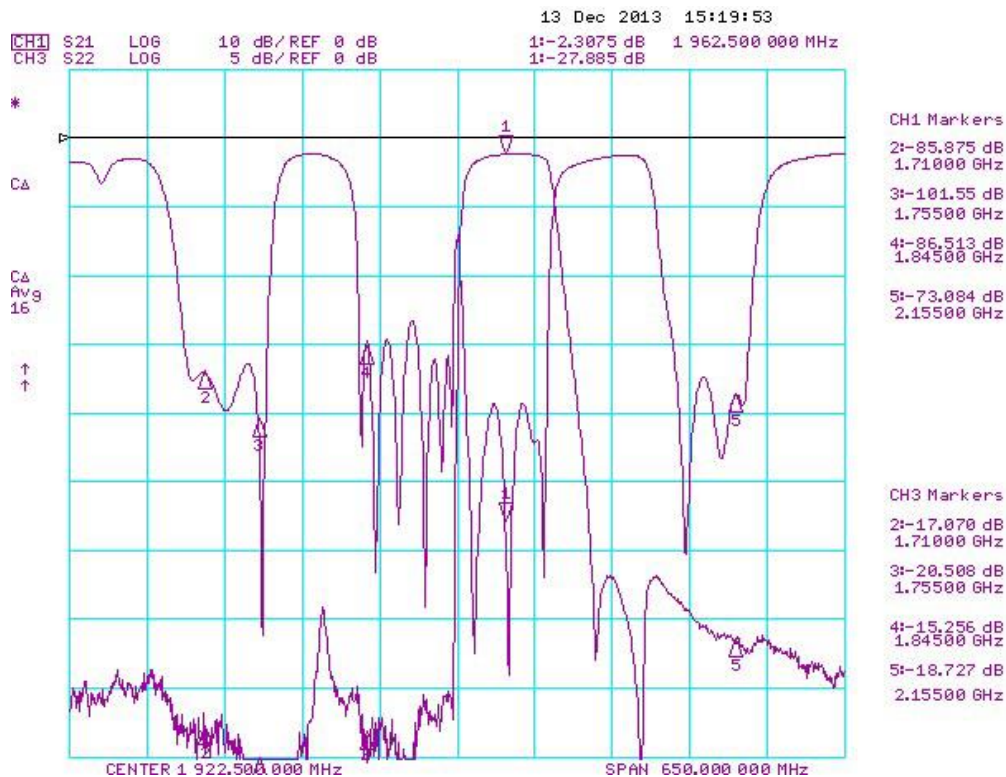
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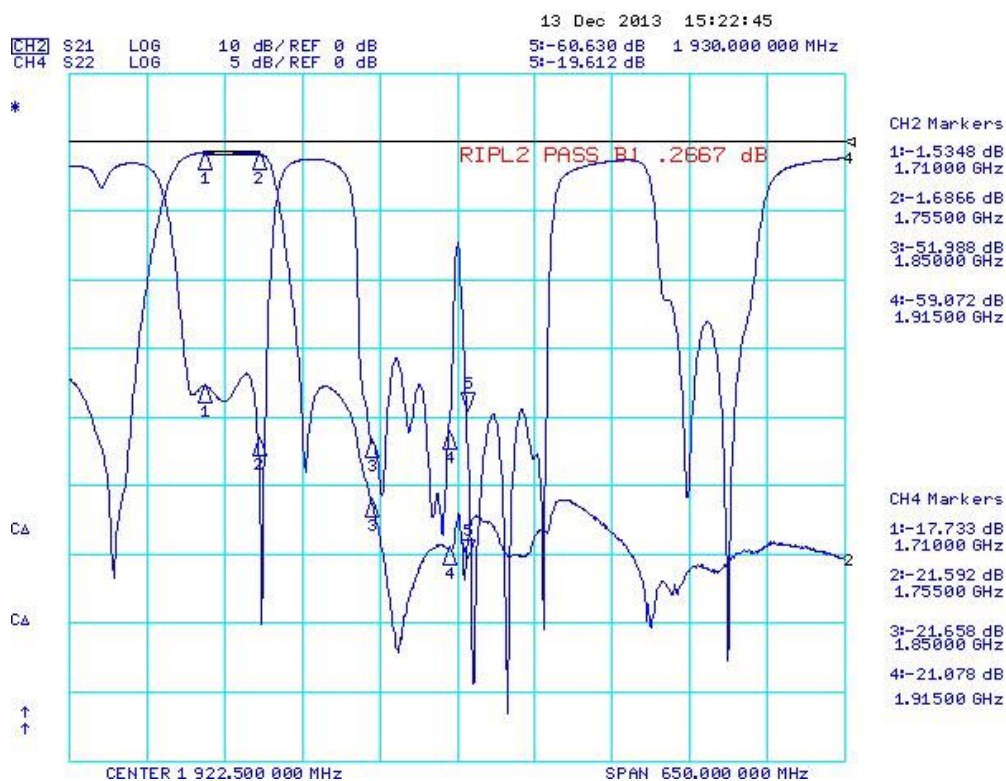
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Response Plot:



CH 2
ATT



CH 3
I/L
RIPPLE
R/L
ATT



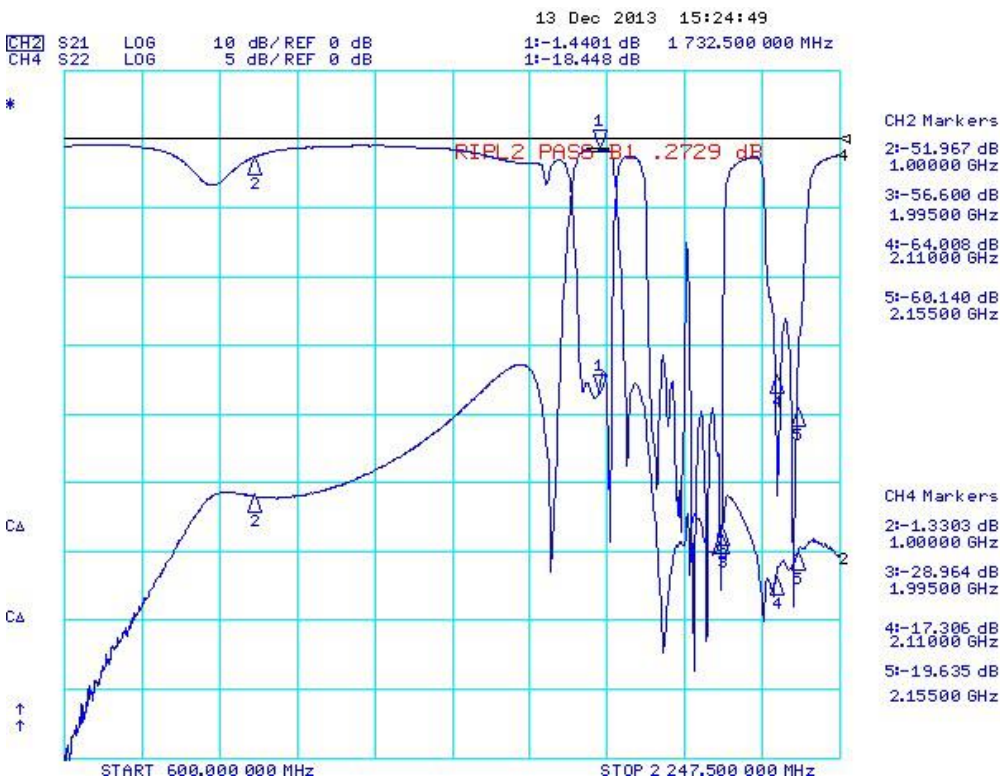
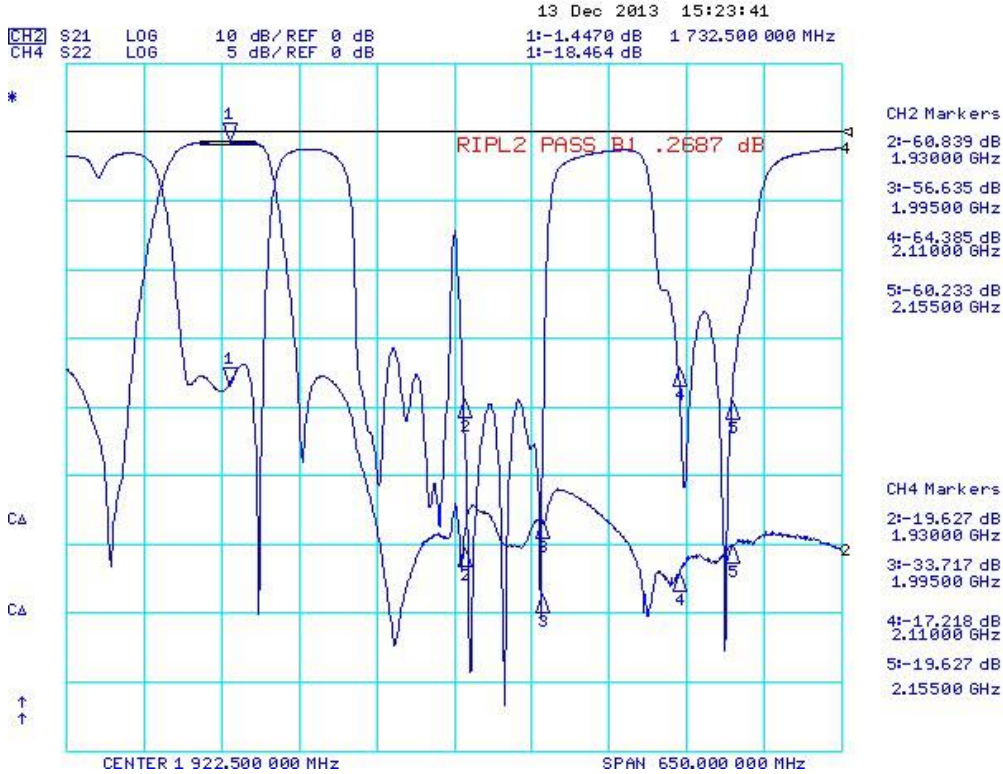
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Response Plot:





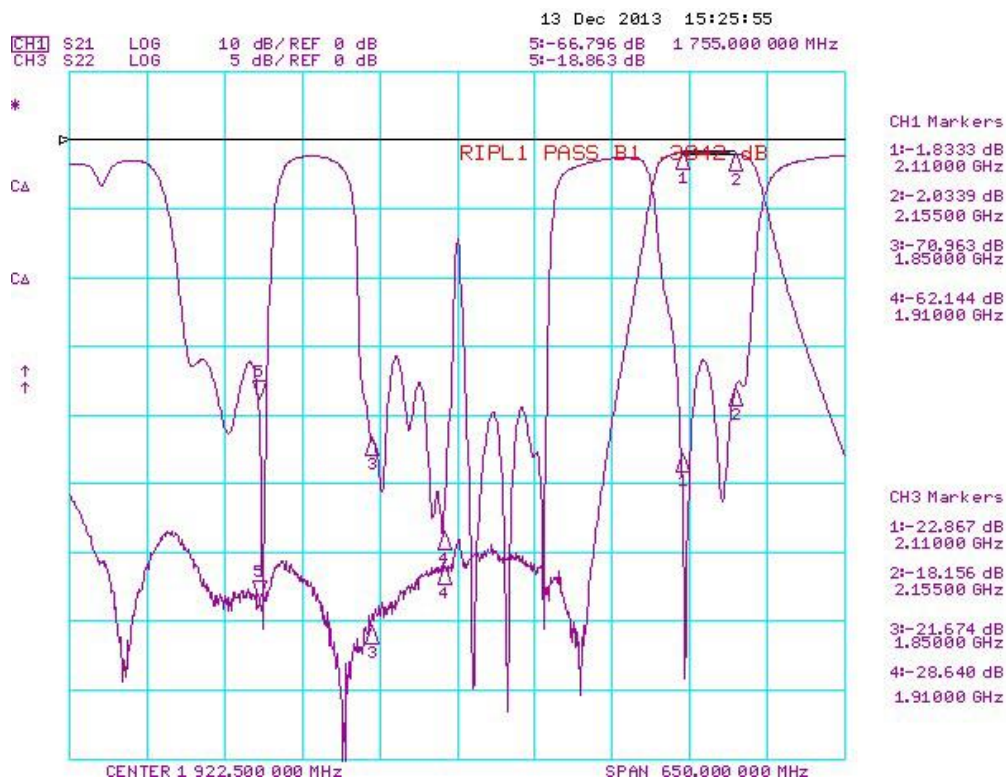
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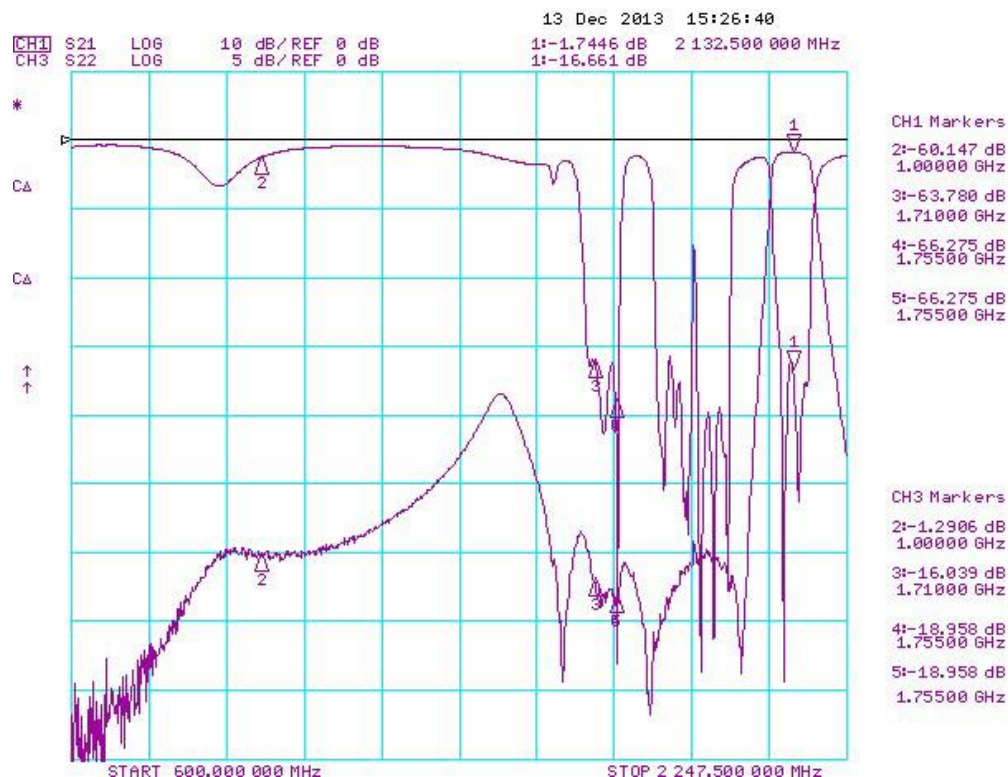
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Response Plot:



CH 4
I/L
RIPPLE
R/L
ATT



CH 4
ATT



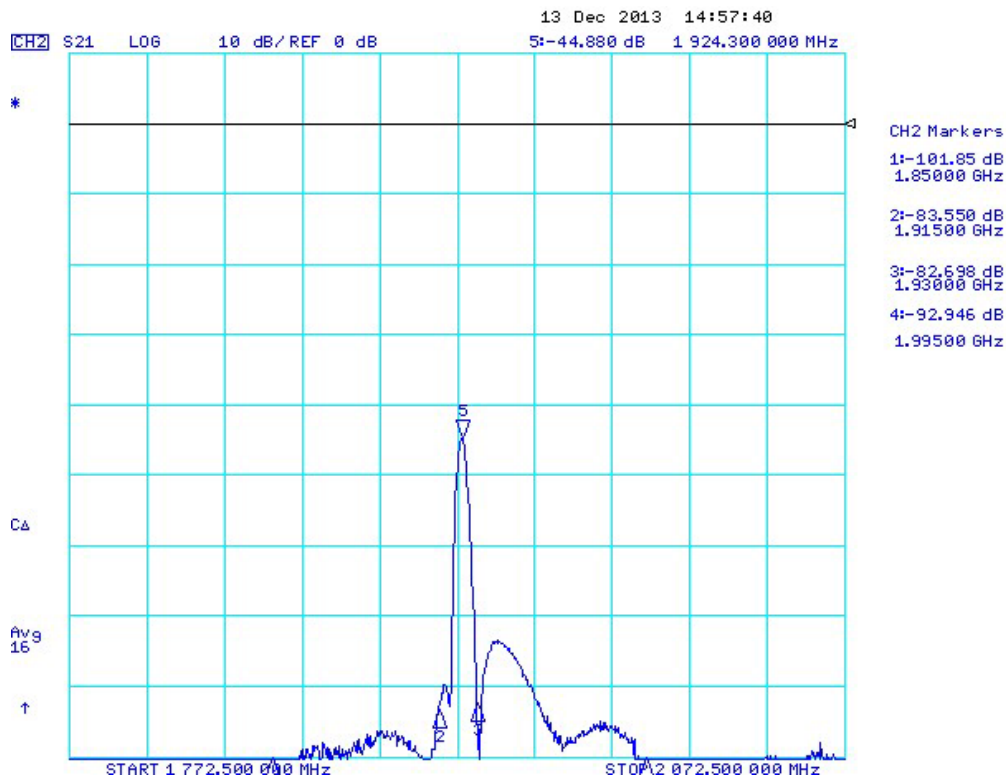
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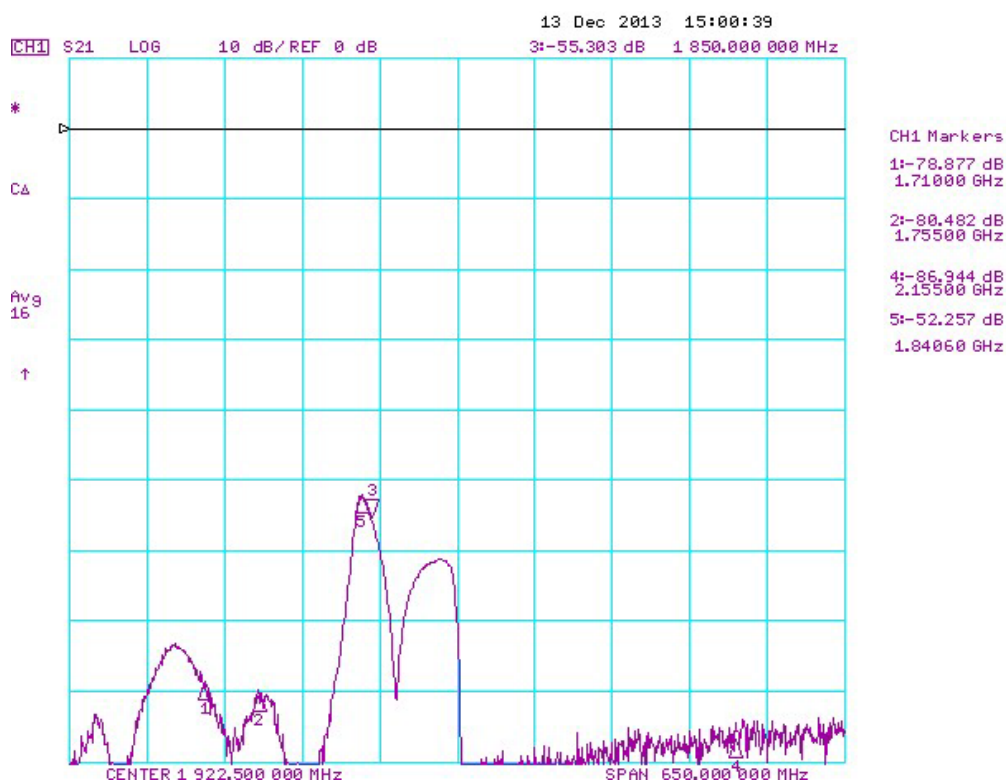
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Response Plot:



CH1 <-> CH2



CH1 <-> CH4



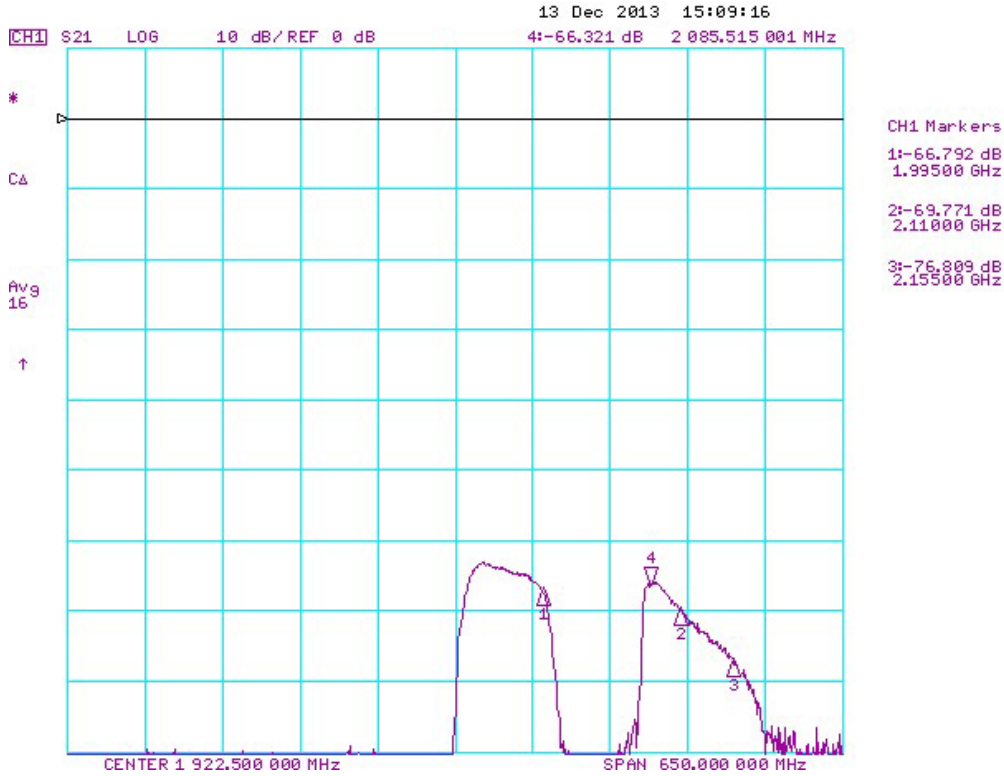
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Response Plot:



CH2 <-> CH3