



**TEST DATA  
ON  
PIA-BTFL-GPO-2CH Rev B**



**Tested by: Sebastian Palacio  
November 29, 2011**



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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Passband Lower Limit:	2.0GHz. Typ	Pass / See Plot	
2	Passband Upper Limit:	19.0GHz Min.	Pass / See Plot	
3	-3dB Cut-off:	1.80GHz Typ. (3dBc from IL @ 2.0GHz)	Pass / See Plot	
4	Insertion Loss:	3.0dB Typ., 3.5dB Max. (2.0 to 19.0GHz)	Pass / See Plot	
5	Rejection:	-10dBc Min. @ 1.7 GHz -30dBc Min @ DC to 1.5GHz (Measured IL @ 2GHz to be used as the reference)	Pass / See Plot	
6	Passband VSWR In/Out:	2.0:1 Max. (3.0 to 19.0GHz) 2.2:1 Max. (2.0 to 3.0GHz)	Pass / See Plot	
7	Bias Rise/Fall Time (90% to 10%):	50ns Max +12 to -12V or -12 to +12V pulses, tr=1ns; Rload = 430 Ohms	Pass by Design	
8	Limiting Threshold:	+8dBm Min.	Pass	
9	Flat Leakage:	+20dBm CW Max. +23dBm Pulsed Max.	Pass	
10	Pulse Recovery Time:	50ns Max. (To within 1dB of IL)	Pass by Design	
11	Cross Channel Isolation:	-73dB Max.	Pass / See Plot	
12	2 <sup>nd</sup> Order Input Intercept Point:	+30dBm Min. (-15dBm Input Tones)	Pass by Design	
13	3rd Order Input Intercept Point:	+17dBm Min. (-15dBm Input Tones)	Pass by Design	
14	Power Handling:	1W CW Max. 6W, (20% Duty Cycle)	Pass by Design	
15	Bias Current:	±30mA Operational ±80mA Max.	Pass by Design	
16	Bias Voltage:	-12 to +12VDC	Pass by Design	



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Filter Response (RF INPUT & VDC 1 TO RF OUTPUT 1) @ +25°C





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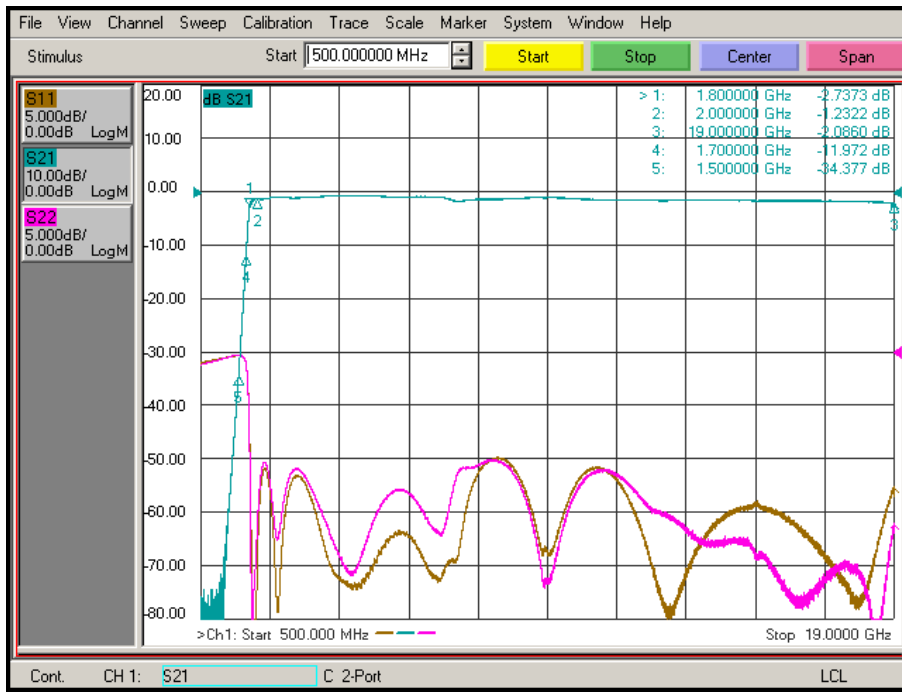
**Filter Response (RF INPUT & VDC 2 TO RF OUTPUT 2) @ +25°C**





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Filter Response (RF INPUT & VDC 1 TO RF OUTPUT 1) @ -25°C





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Filter Response (RF INPUT & VDC 2 TO RF OUTPUT 2) @ -25°C





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Filter Response (RF INPUT & VDC 1 TO RF OUTPUT 1) @ +95°C





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Filter Response (RF INPUT & VDC 2 TO RF OUTPUT 2) @ +95°C

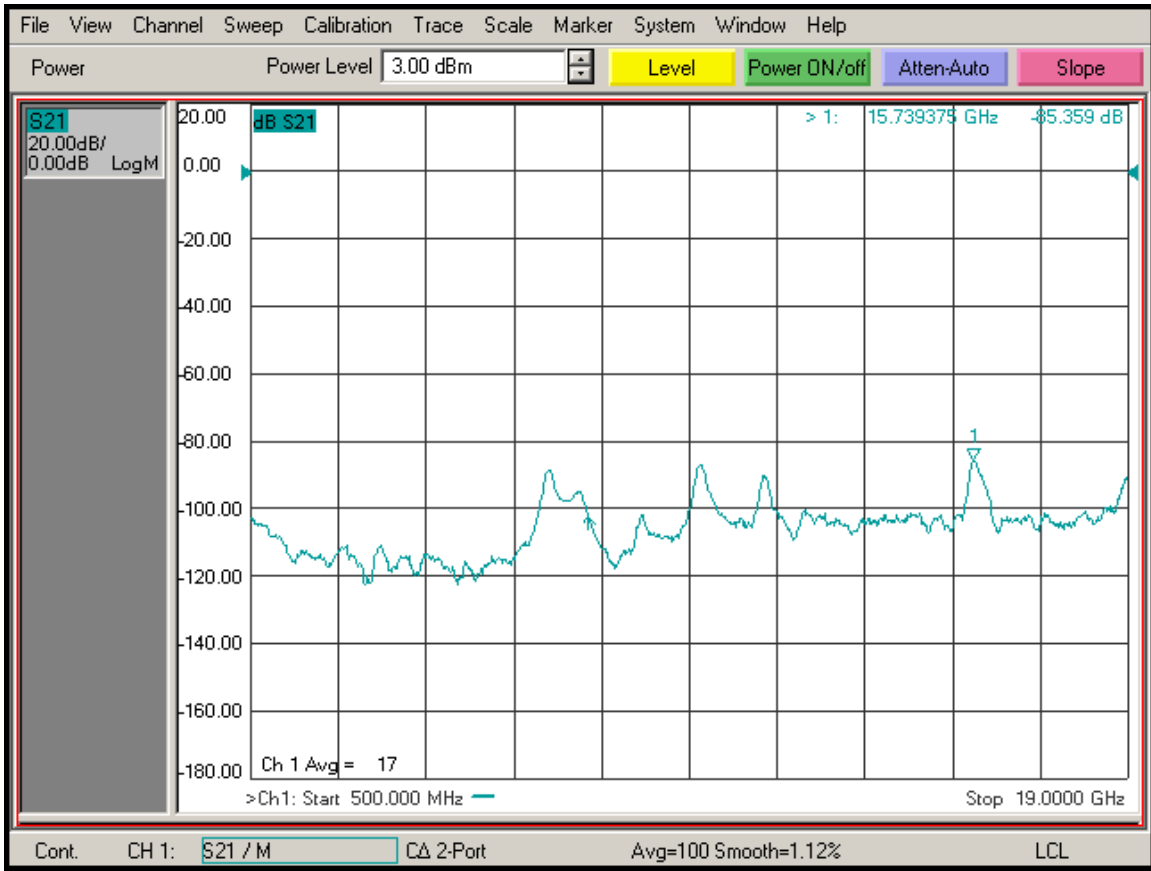






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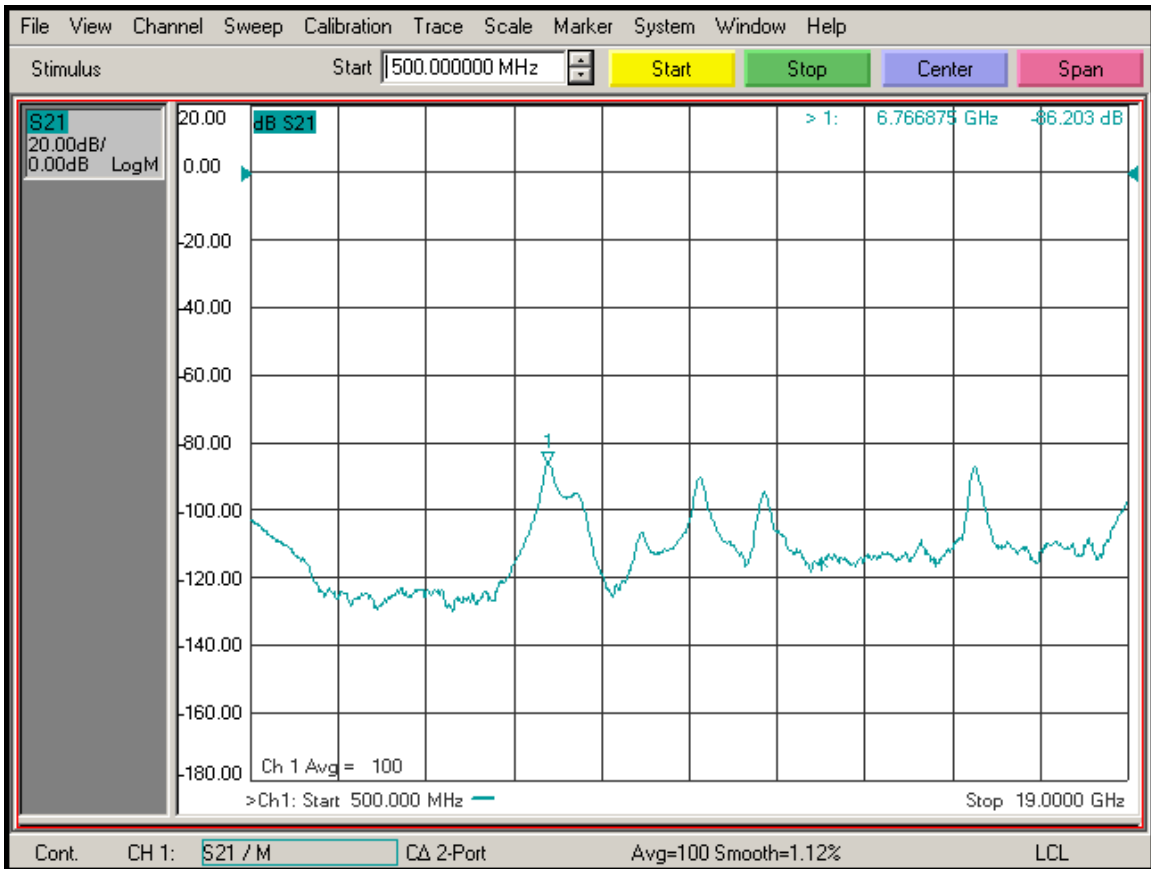
Typical Cross Channel Isolation @ +25°C





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Typical Cross Channel Isolation @ -25°C





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Typical Cross Channel Isolation @ +95°C

