



**SUMMARY TEST DATA  
ON  
SFB-6G18G-2CH-6D8-500NS-SFF**

PL22940/1825

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SFB-6G18G-2CH-6D8-500NS-SFF  
 Serial No: PL22940/1825

Tested By: RCombs  
 Temperature: +25°C  
 Date: 6/22/2018  
 Drawing No: 27622850 Rev: A1

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST MEASUREMENT	QA QC
1	Frequency CH1	6.0 to 10.40 GHz	6.0 to 10.40 GHz	PMI QA 1
2	Frequency CH2	10.40 to 18.0 GHz	10.40 to 18.0 GHz	
3	Insertion Loss CH1 & CH2	6 dB	CH1: 4.45 dB (See Plots) CH2: 5.67 dB (See Plots)	
4	Input VSWR CH1 & CH2	2.0:1 Max	CH1: 1.66:1 (See Plots) CH2: 1.83:1 (See Plots)	
5	Output VSWR CH1 & CH2	2.0:1 Max	CH1: 1.72:1 (See Plots) CH2: 1.82:1 (See Plots)	
6	Isolation	60 dBc Min	>68 dBc	
7	CH1 Rejection	50 dBc @ 12.0 to 18.0 GHz	80.5 dBc (See Plots)	
8	Switching Speed	500 ns Max	ON: 42 ns (See Plots) OFF: 127 ns (See Plots)	
9	Second Harmonic	60 dBc @ +27 dBm	CH1: 71 dBc @ +27 dBm In CH2: 80 dBc @ +27 dBm In	
10	Power Supply	+5 VDC @ 100 mA Max -15 VDC @ 100 mA Max	+5 VDC @ 36 mA -15 VDC @ 80 mA	
11	Video Leakage	100 mV Max (In 100 MHz Bandwidth)	<5 mV	PMI QA 1

QA/QC Approval: 

PMI  
QA 1

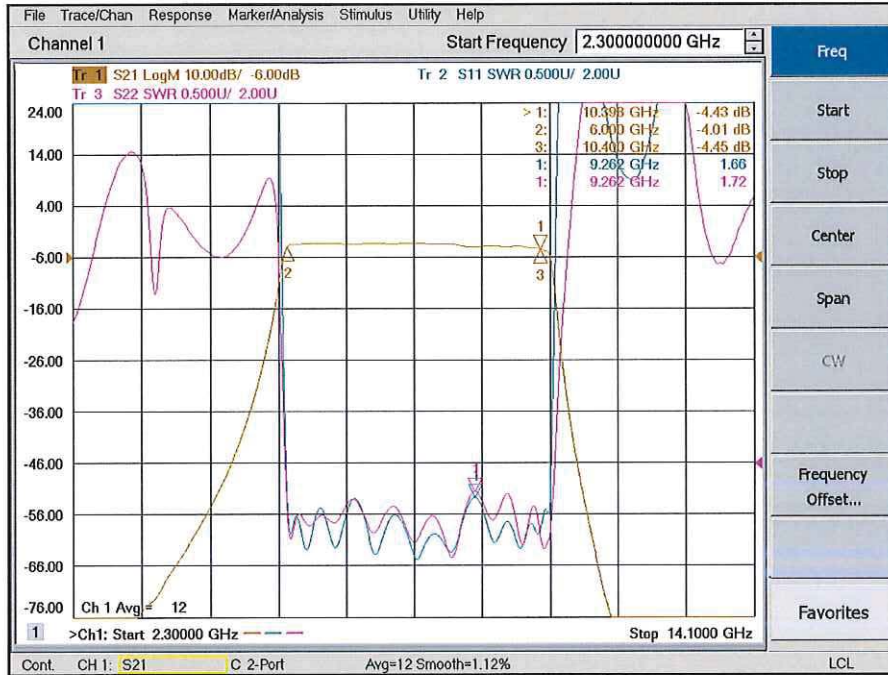
Date: 6/28/18



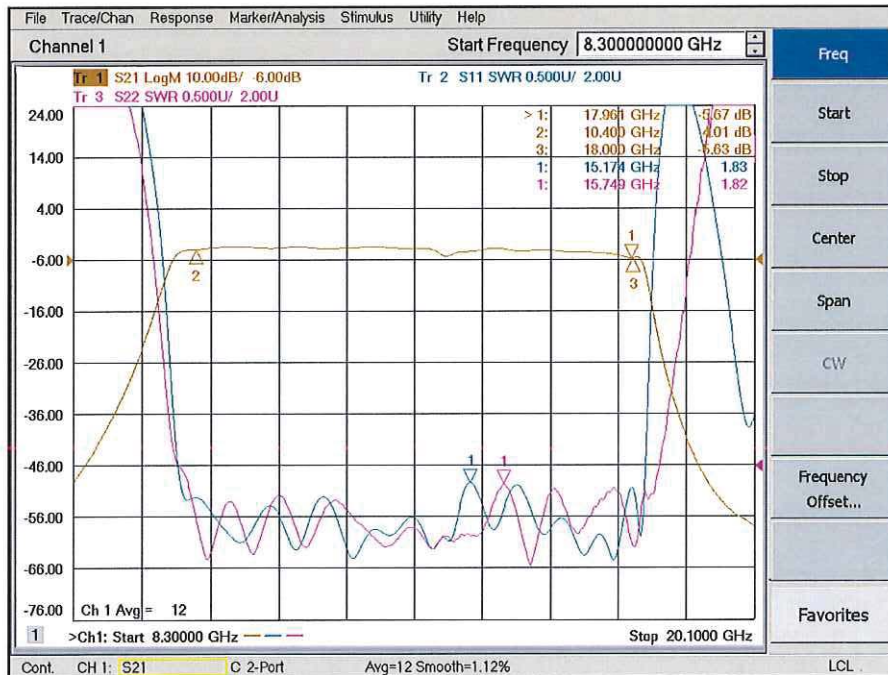
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**CHANNEL 1 INSERTION LOSS AND VSWR**



**CHANNEL 2 INSERTION LOSS AND VSWR**

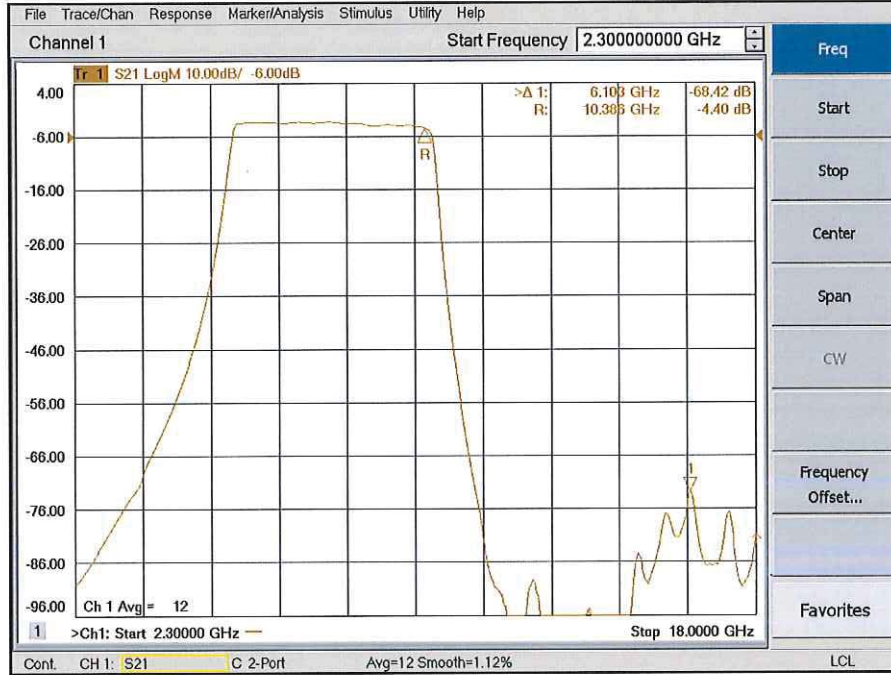




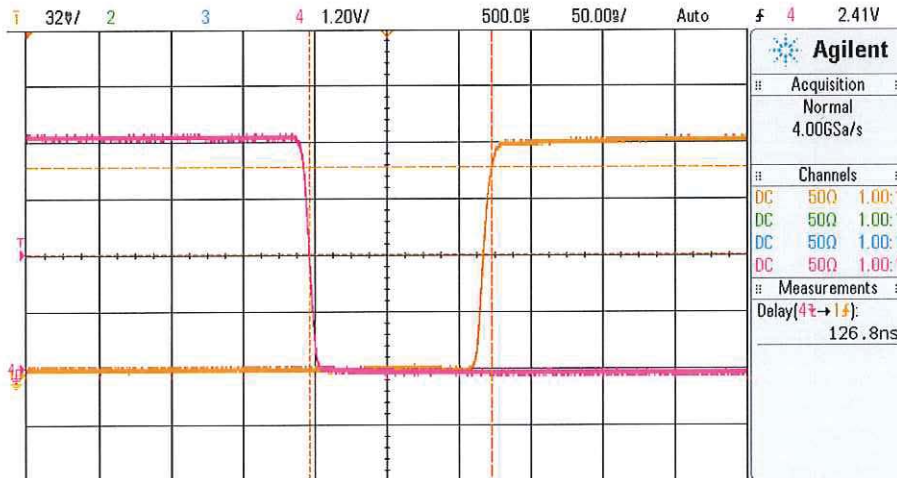
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**CHANNEL 1 REJECTION**



**SWITCHING SPEED CHANNEL 1 ON (50% TTL to 90% RF)**



**RED TRACE: TTL LOW=ON**

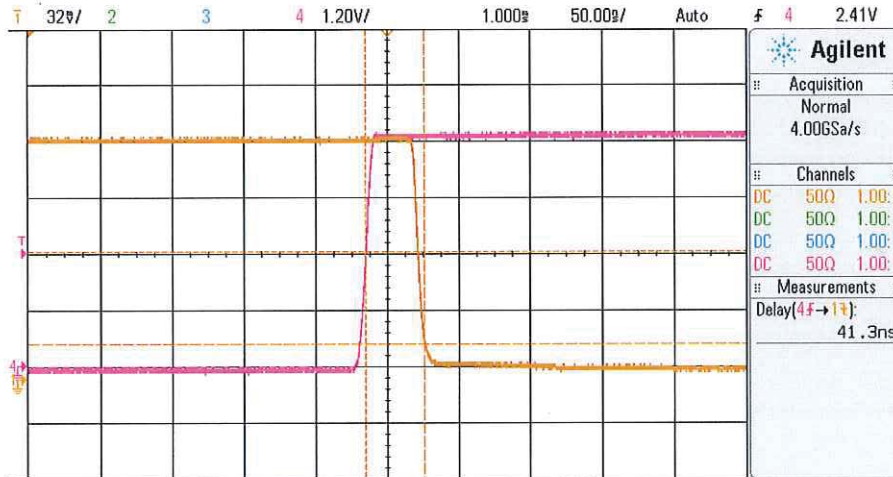
**YELLOW TRACE: DETECTED RF**



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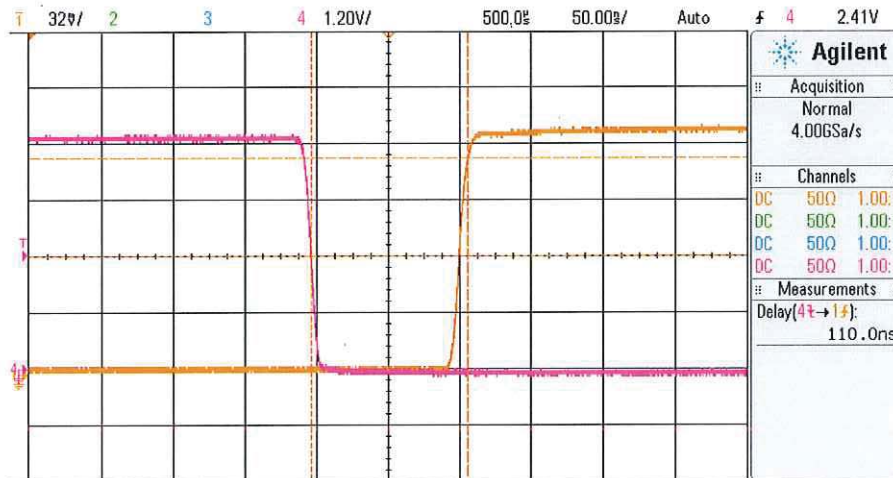
**SWITCHING SPEED CHANNEL 1 OFF (50% TTL to 10% RF)**



**RED TRACE: TTL (HIGH=OFF)**

**YELLOW TRACE: DETECTED RF**

**SWITCHING SPEED CHANNEL 2 ON (50% TTL to 90% RF)**



**RED TRACE: TTL LOW=ON**

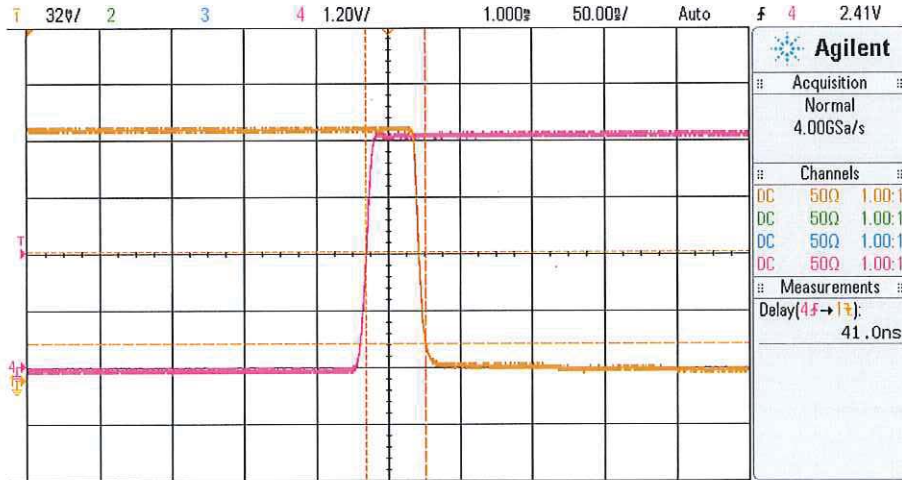
**YELLOW TRACE: DETECTED RF**



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**SWITCHING SPEED CHANNEL 2 OFF (50% TTL to 10% RF)**



**RED TRACE: TTL (HIGH=OFF)**

**YELLOW TRACE: DETECTED RF**