



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

PL21951/1751

Customer: _____
 Model No: SFB-6G18G-2CH-6D8-500NS-SFF
 Serial No: PL21951/1751

Tested By: RCombs
 Temperature: +25°C
 Date: 2/14/2018
 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 QA2
2	Frequency CH2	10.40 to 18.0 GHz	10.40 to 18.0 GHz	
3	Insertion Loss CH1 & CH2	6 dB	CH1: 4.43 dB (See Plots) CH2: 5.44 dB (See Plots)	
4	Input VSWR CH1 & CH2	2.0:1 Max	CH1: 1.73:1 (See Plots) CH2: 1.57:1 (See Plots)	
5	Output VSWR CH1 & CH2	2.0:1 Max	CH1: 1.68:1 (See Plots) CH2: 1.78:1 (See Plots)	
6	Isolation	60 dBc Min	>60 dBc	
7	CH1 Rejection	50 dBc @ 12.0 to 18.0 GHz	80.5 dBc (See Plots)	
8	Switching Speed	500 ns Max	ON: 34 ns (See Plots) OFF: 91 ns (See Plots)	
9	Second Harmonic	60 dBc @ +27 dBm	CH1: 70.9 dBc @ +27 dBm In CH2: 73.6 dBc @ +27 dBm In	
10	Power Supply	+5 VDC @ 100 mA Max -15 VDC @ 100 mA Max	+5 VDC @ 34 mA -15 VDC @ 81 mA	
11	Video Leakage	100 mV Max (In 100 MHz Bandwidth)	<5 mV	

QA/QC Approval:  PMI
QA2

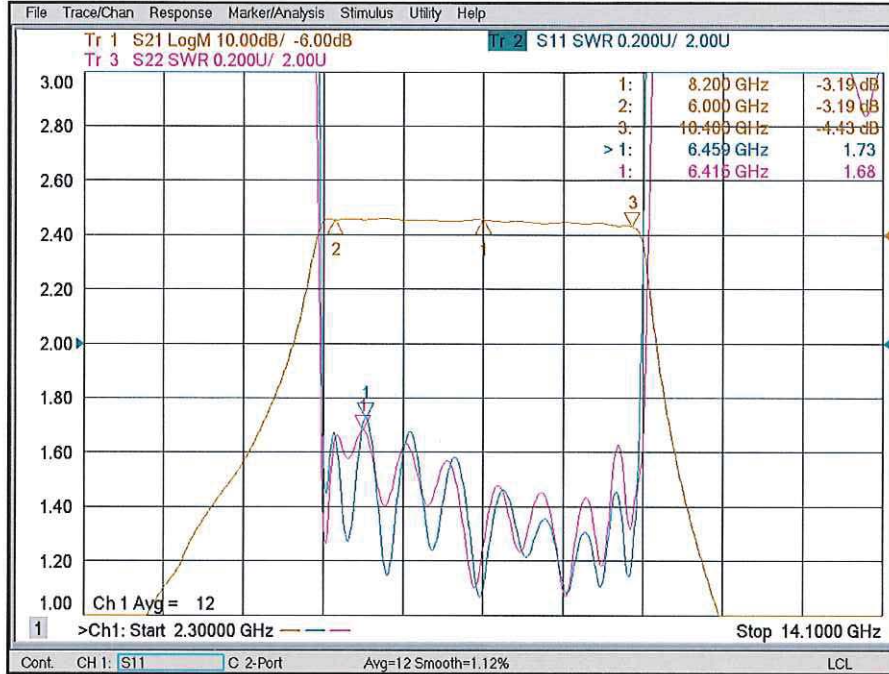
Date: 2/20/18



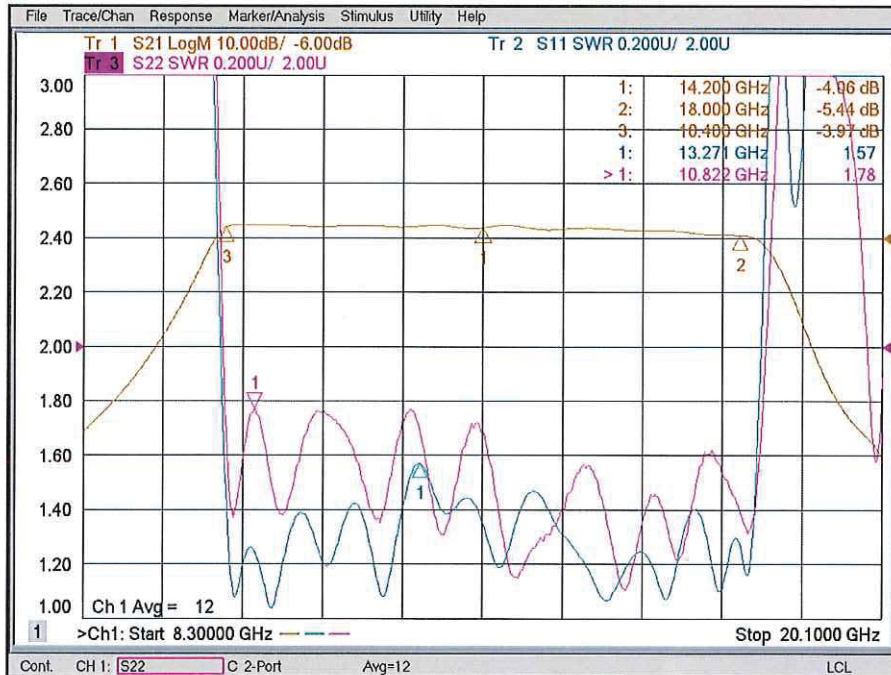
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CHANNEL 1 INSERTION LOSS AND VSWR



CHANNEL 2 INSERTION LOSS AND VSWR

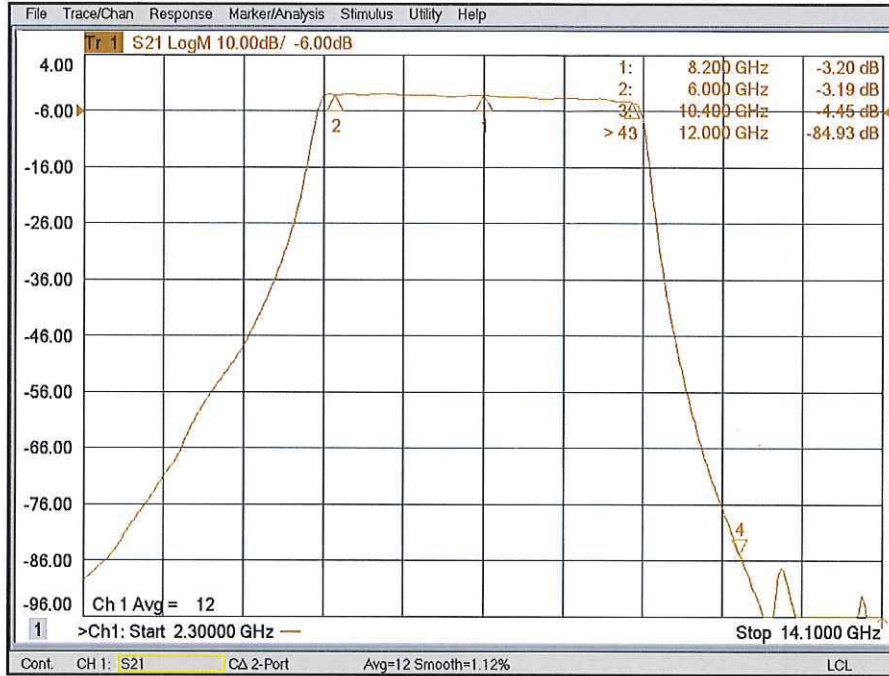




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CHANNEL 1 REJECTION



SECOND HARMONIC AT +27 dBm INPUT CHANNEL 1

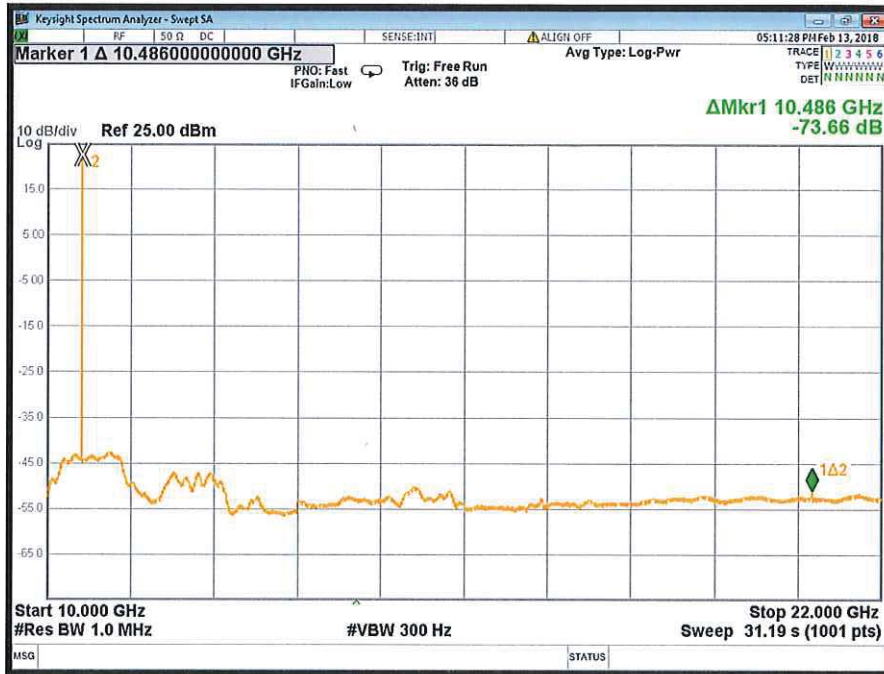




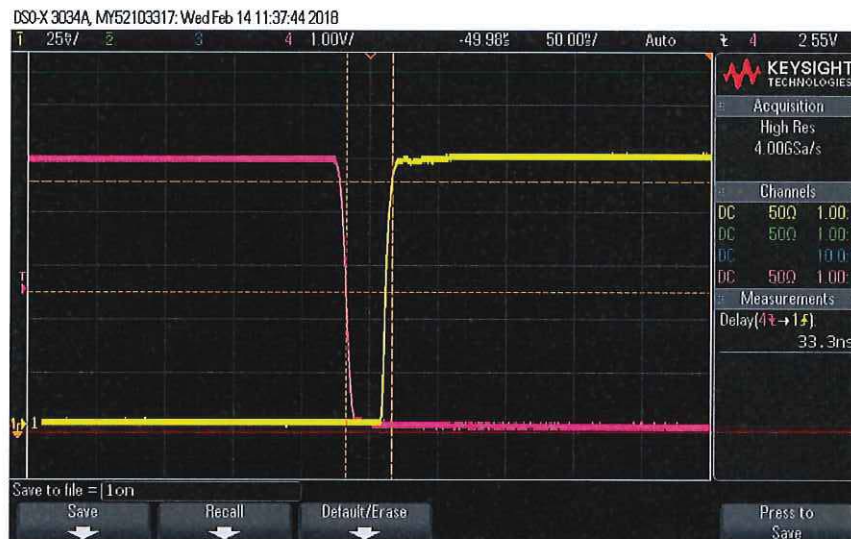
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SECOND HARMONIC AT +27 dBm INPUT CHANNEL 2



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



RED TRACE: TTL LOW=ON

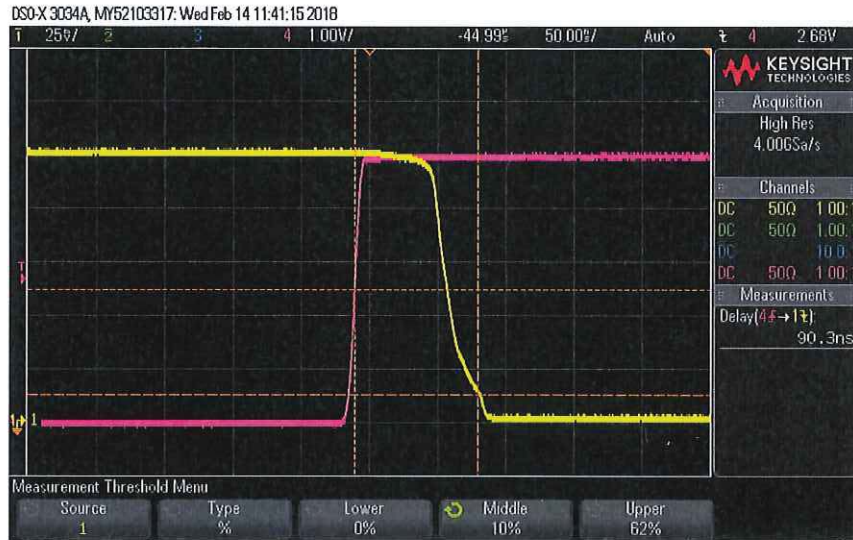
YELLOW TRACE: DETECTED RF



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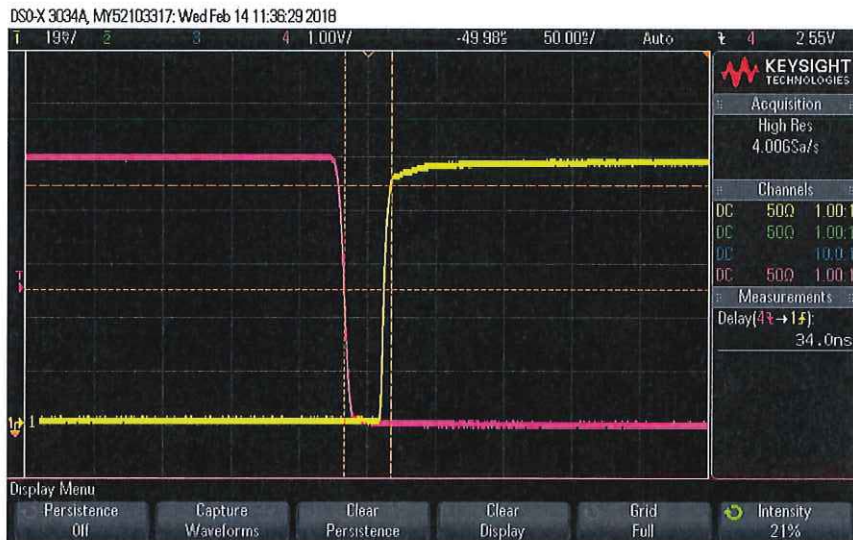
SWITCHING SPEED CHANNEL 1 OFF (50% TTL to 10% RF)



RED TRACE: TTL (HIGH=OFF)

YELLOW TRACE: DETECTED RF

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



RED TRACE: TTL LOW=ON

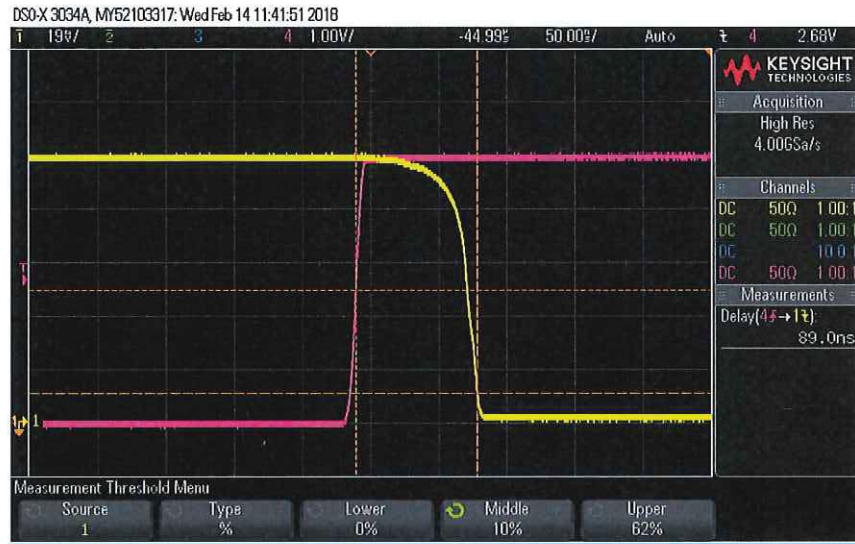
YELLOW TRACE: DETECTED RF



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



RED TRACE: TTL (HIGH=OFF)

YELLOW TRACE: DETECTED RF