



**TYPICAL CHARACTERISTICS  
ON  
SBA-DC2G-60DB-5V**

**PMI MODEL SBA-DC2G-60DB-5V IS A PROGRAMMABLE 0 TO 60dB ATTENUATOR THAT OPERATES FROM DC TO 2GHz. SEE FULL SPECIFICATIONS BELOW.**



**DESIGNED, TESTED & REPORTED BY:  
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**TYPICAL CHARACTERISTICS  
ON  
SBA-DC2G-60DB-5V**

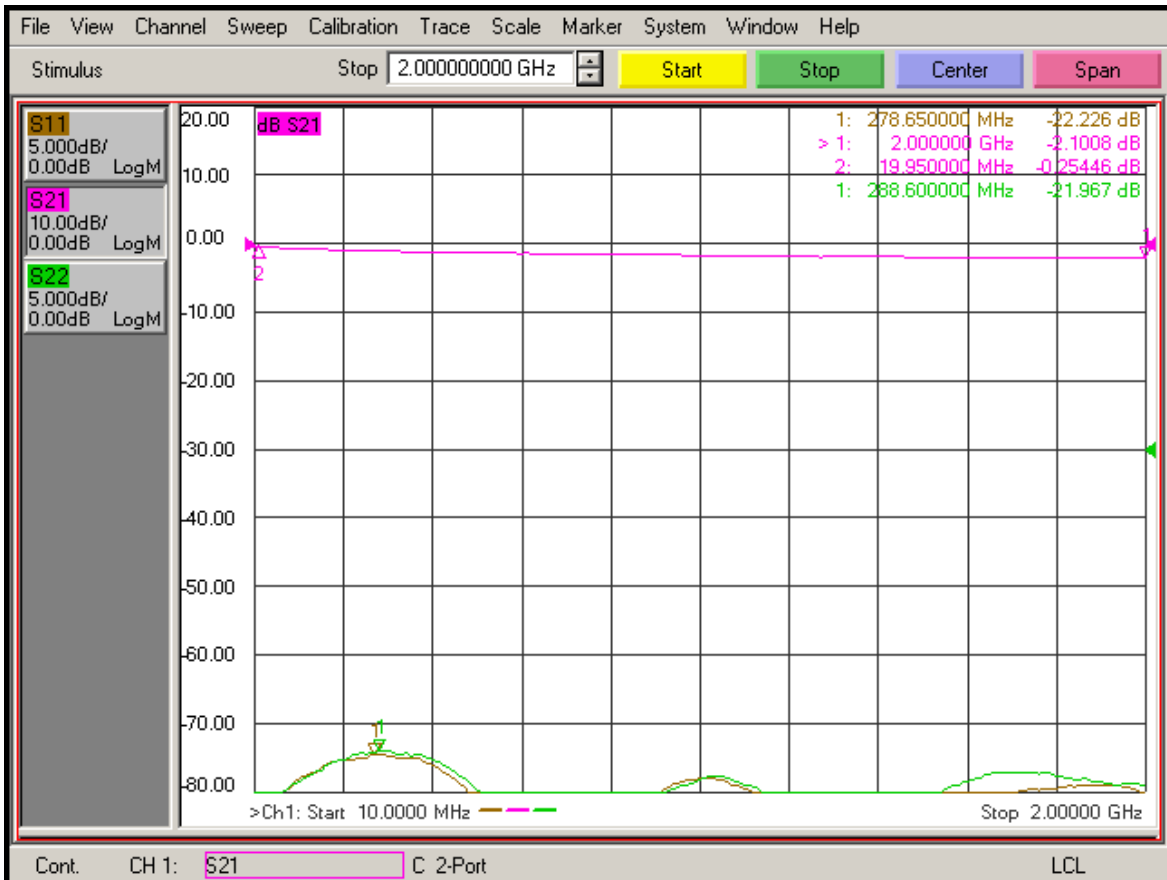
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	DC to 2GHz	DC-10MHz Pass 10MHz to 2GHz Pass See Plots (Performance up to 6GHz provided)	
2	Individual Cell Attenuation	4dB, 8dB, 16dB, and 32dB	Pass See Plots	
3	Total Attenuation	0 to 60dB	0-60dB See Plots	
4	Attenuation Accuracy	±0.3dB or 1% to 1GHz ±0.5dB or 2% or 2GHz	±0.46dB See Plots	
5	Impedance:	50Ω	Pass	
6	Switching Speed:	< 6ms	1ms See Plots	
7	VSWR:	< 1.3:1 (17dB Return Loss)	1.26:1 See Plots	
8	Power Handling:	0.5W (27dBm) CW	Pass	
9	Operating Voltage	5V	Pass 360mA Typ.	





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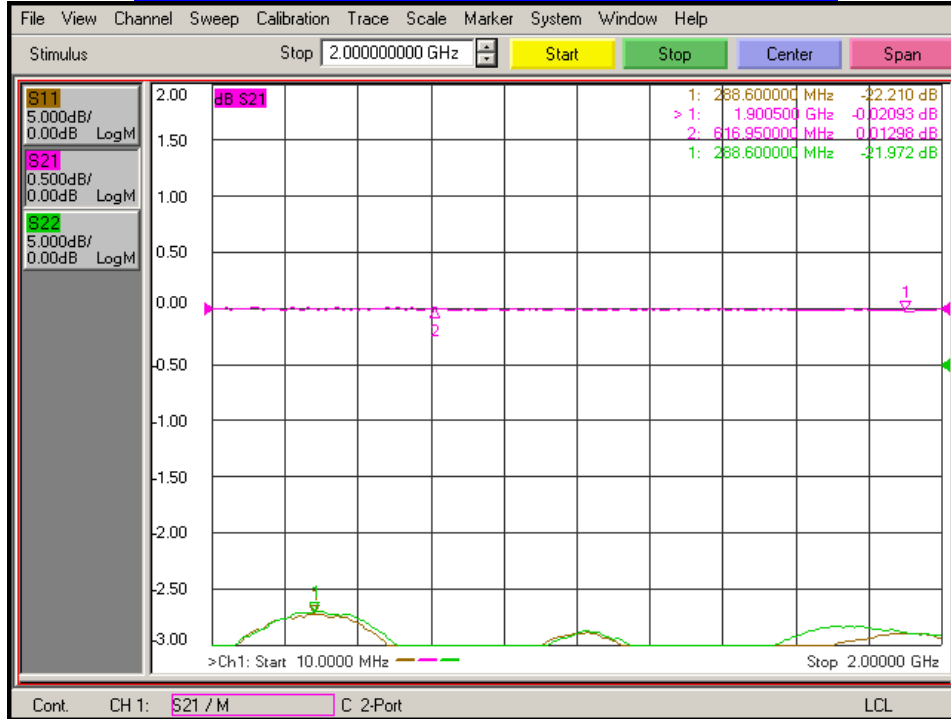
**Insertion Loss & Return Loss (IN/OUT)**



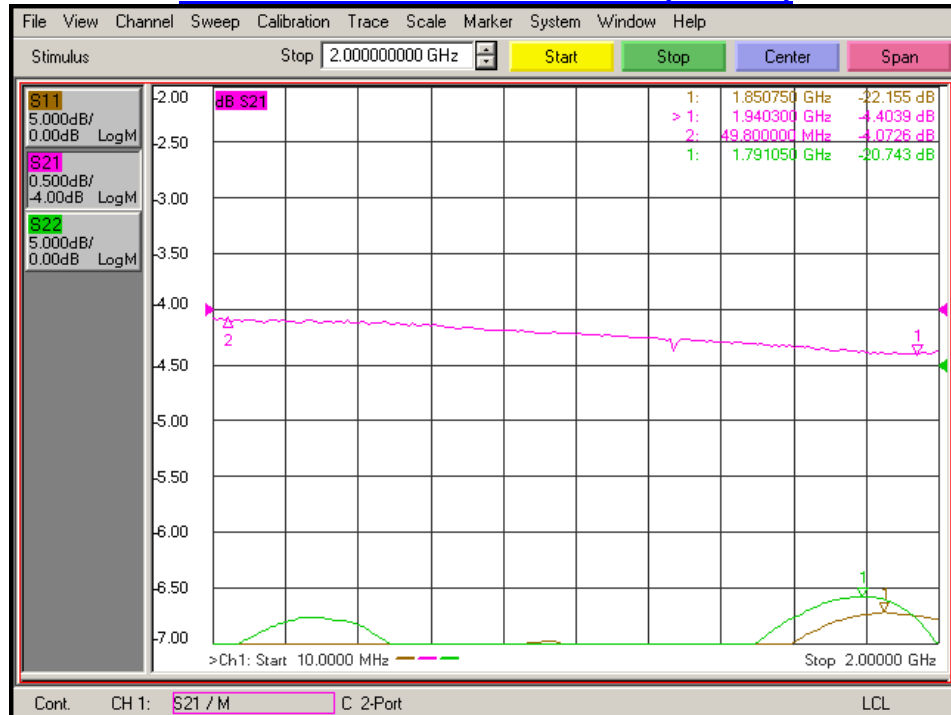


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**0dB Attenuation (Ref.) & Return Loss (IN/OUT)**



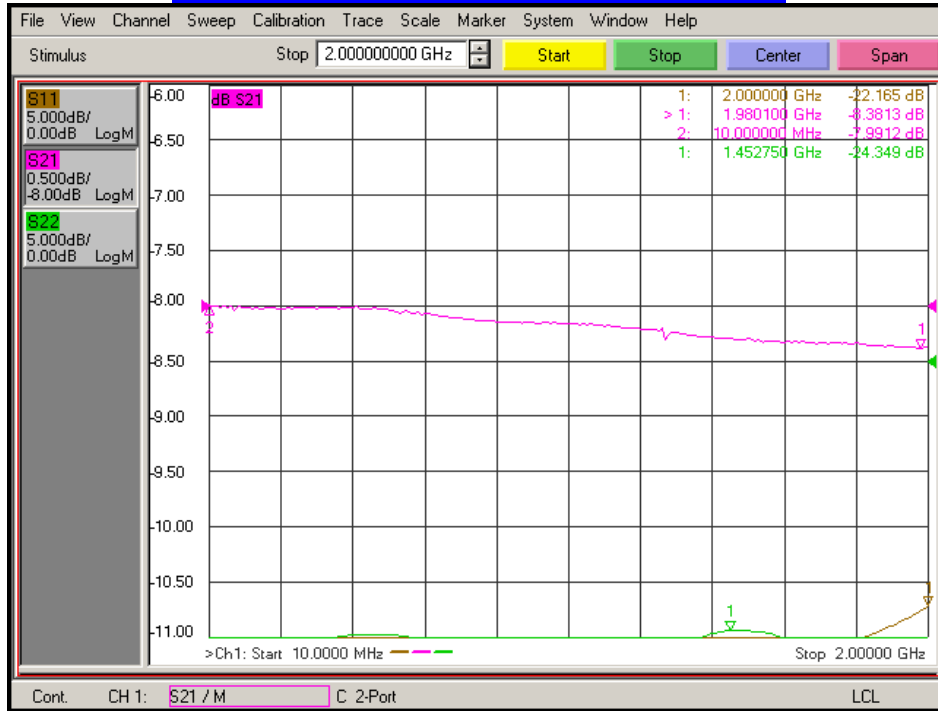
**4dB Attenuation & Return Loss (IN/OUT)**



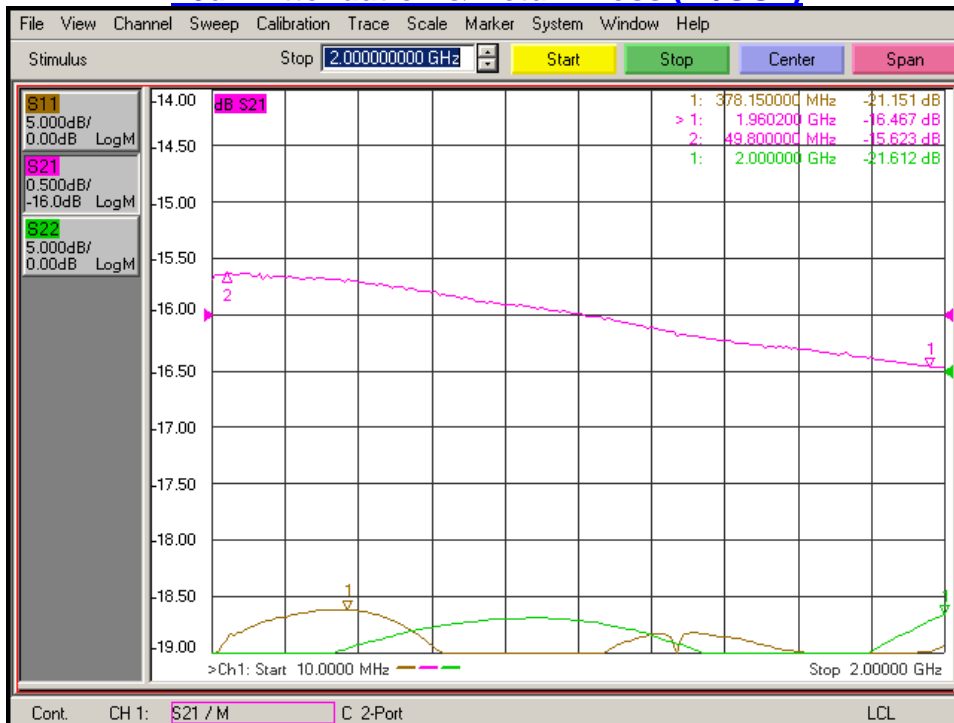


## TYPICAL CHARACTERISTICS ON SBA-DC2G-60DB-5V

### 8dB Attenuation & Return Loss (IN/OUT)



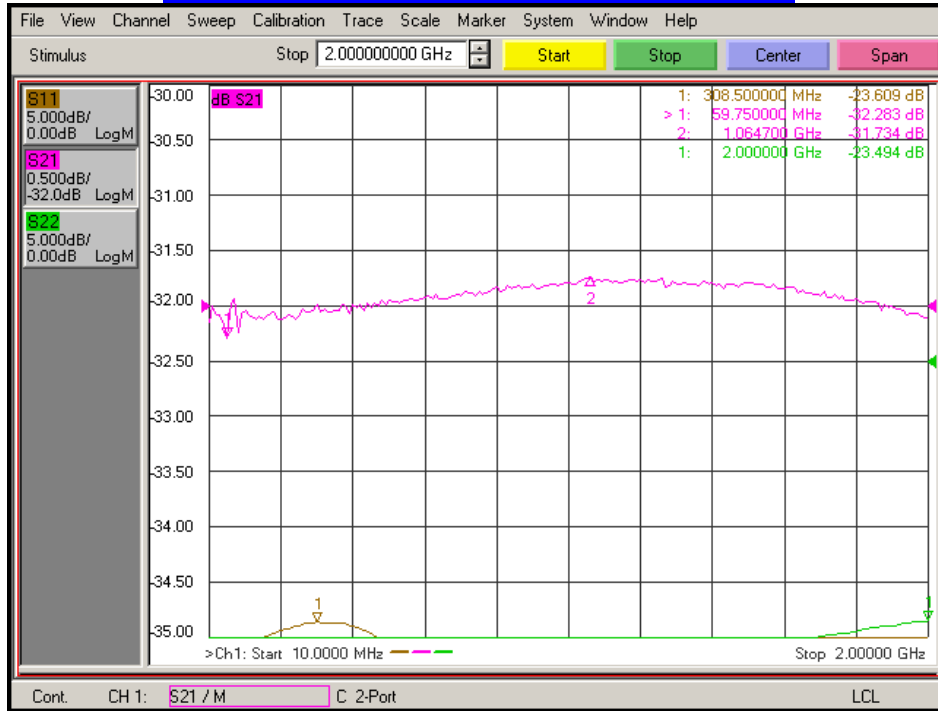
### 16dB Attenuation & Return Loss (IN/OUT)



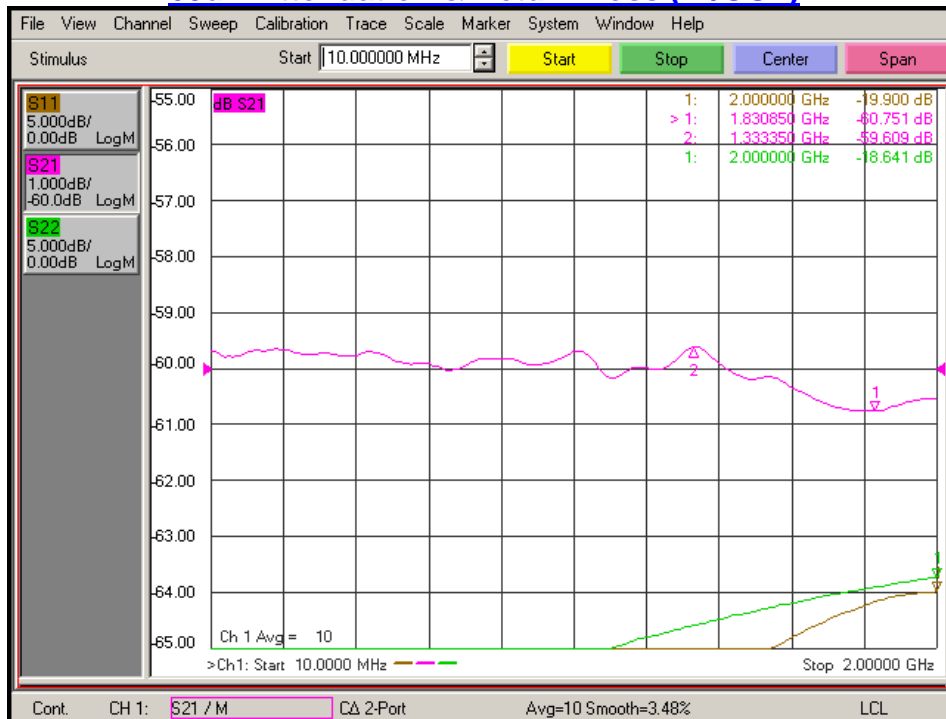


## TYPICAL CHARACTERISTICS ON SBA-DC2G-60DB-5V

### 32dB Attenuation & Return Loss (IN/OUT)



### 60dB Attenuation & Return Loss (IN/OUT)

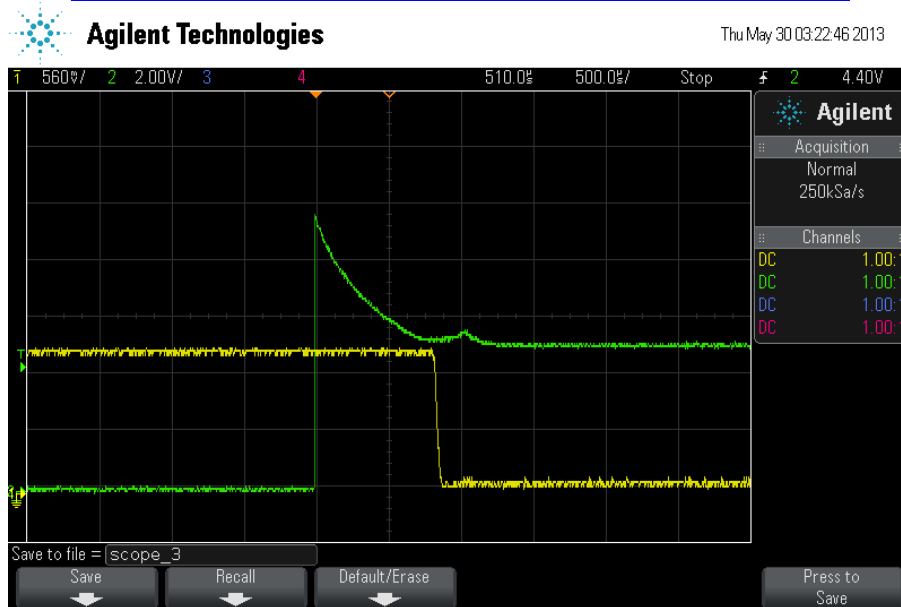




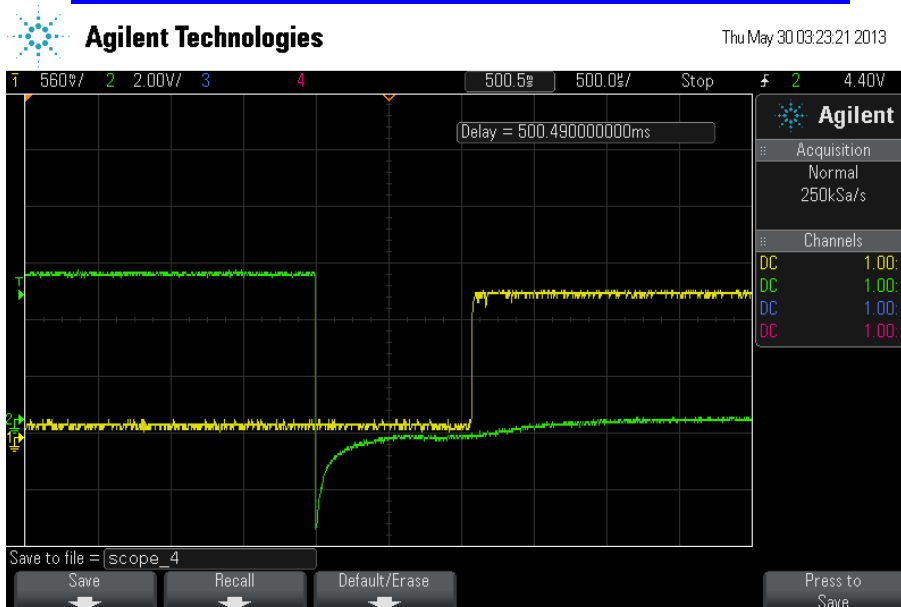
## TYPICAL CHARACTERISTICS ON SBA-DC2G-60DB-5V

### Switching Speed

#### Insertion Loss to 32dB Attenuation - 0VDC to 5VDC



#### 32dB Attenuation to Insertion Loss - 5VDC to 0VDC



Green Trace: CTL Signal set at 1Hz, 50% Duty Cycle, 5Vpp

Yellow Trace: RF Signal in 1GHz at 15dBm (RF Detector on the Output)

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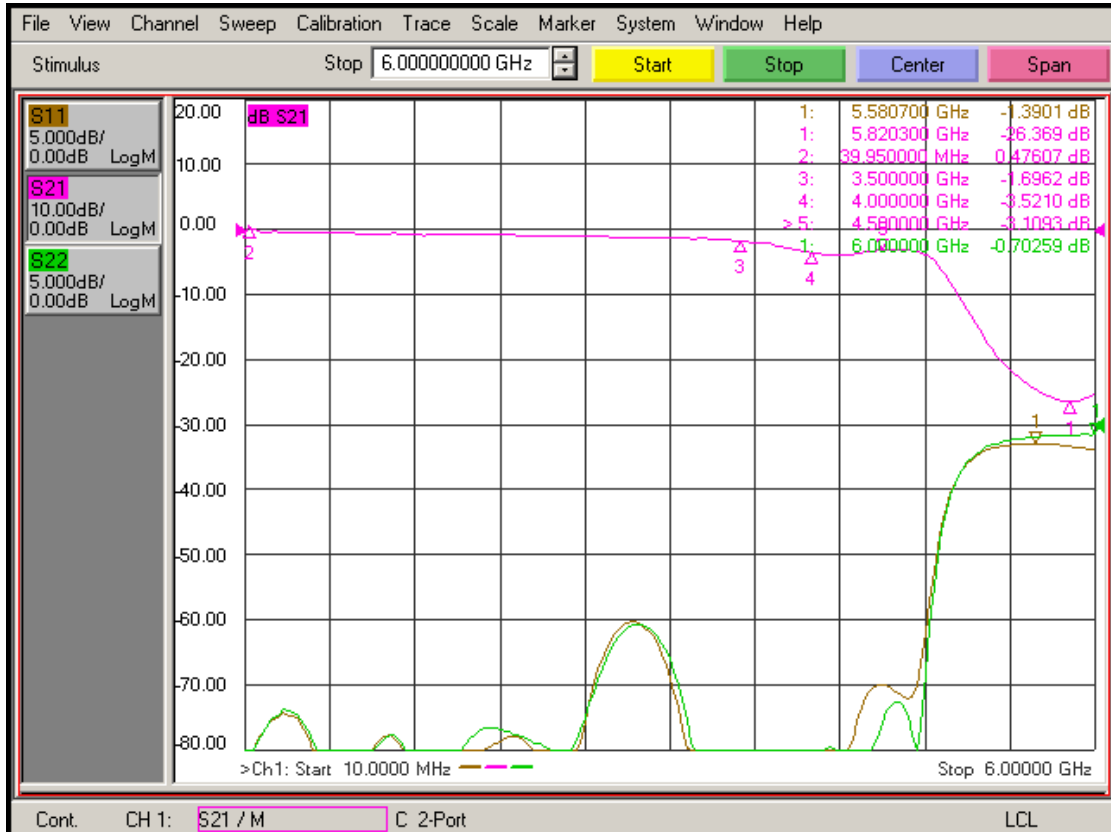




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**Data up to 6GHz**

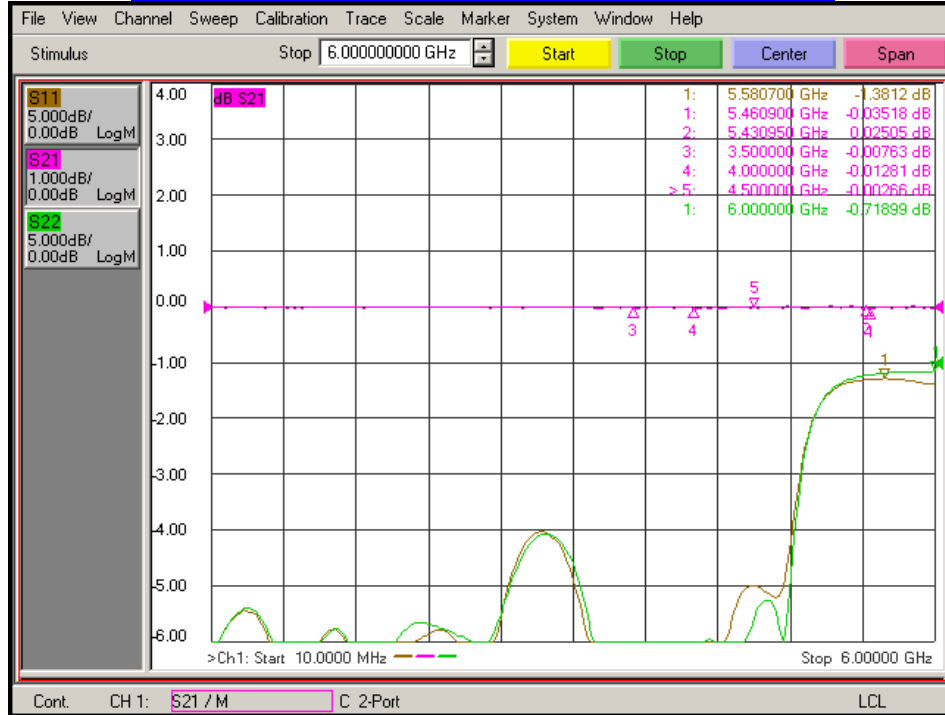
**Insertion Loss & Return Loss (IN/OUT)**





## TYPICAL CHARACTERISTICS ON SBA-DC2G-60DB-5V

### 0dB Attenuation (Ref.) & Return Loss (IN/OUT)



### 4dB Attenuation & Return Loss (IN/OUT)





## TYPICAL CHARACTERISTICS ON SBA-DC2G-60DB-5V

### 8dB Attenuation & Return Loss (IN/OUT)



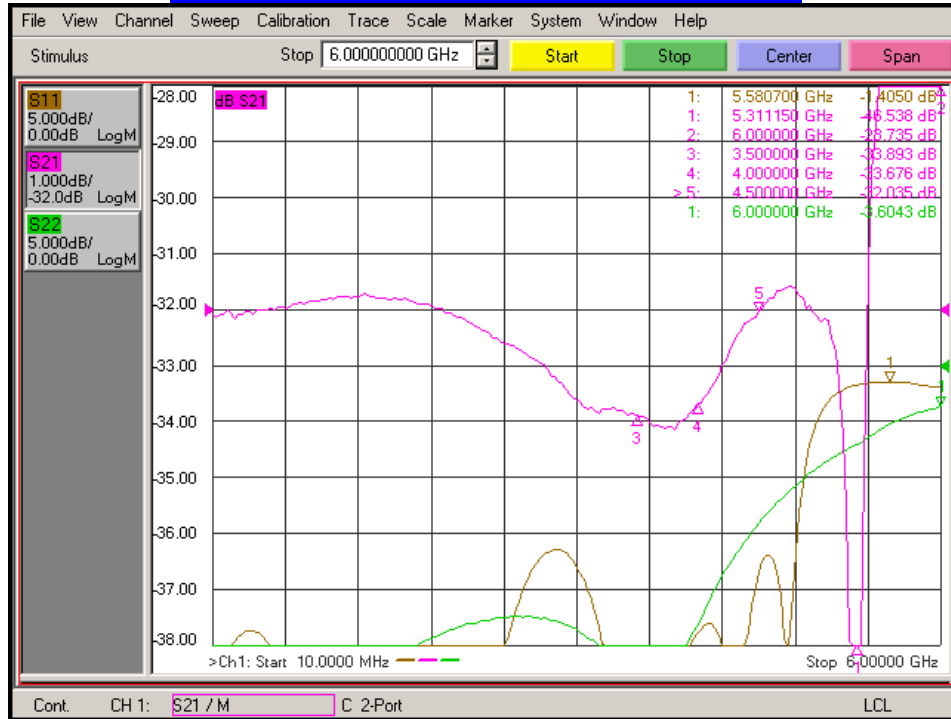
### 16dB Attenuation & Return Loss (IN/OUT)





## TYPICAL CHARACTERISTICS ON SBA-DC2G-60DB-5V

### 32dB Attenuation & Return Loss (IN/OUT)



### 60dB Attenuation & Return Loss (IN/OUT)



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