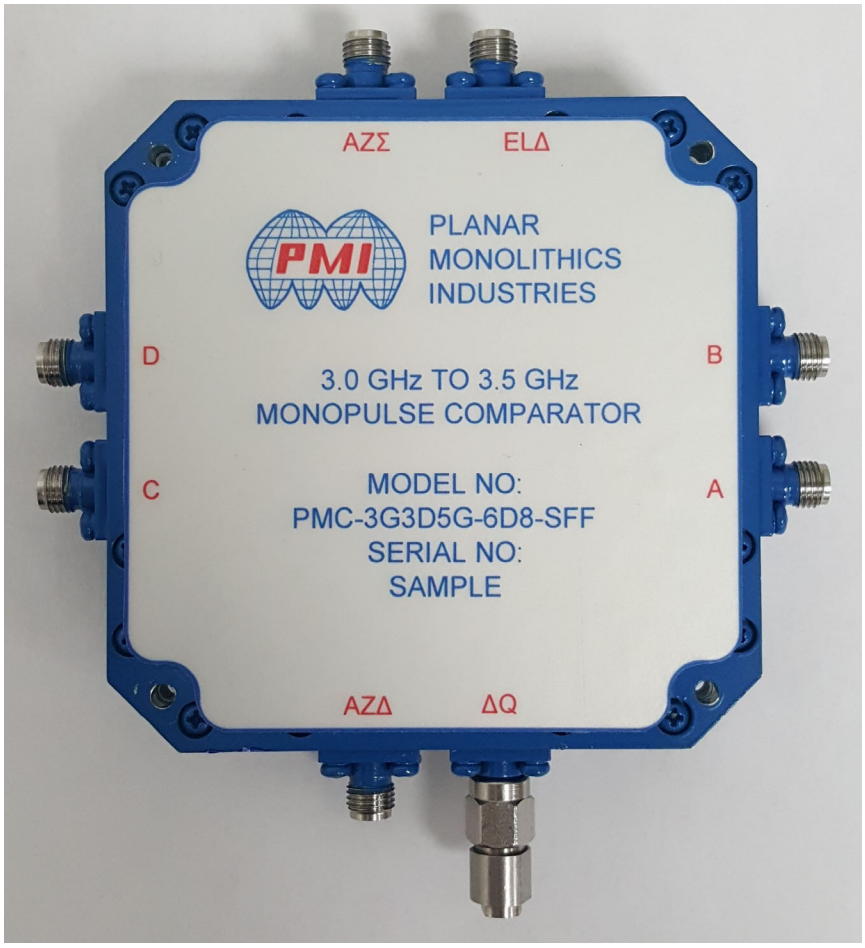
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

PMI MODEL: PMC-3G3D5G-6D8-SFF IS A MONOPULSE COMPARATOR OPERATING OVER THE 3.0 TO 3.5 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MAXIMUM INSERTION LOSS OF 0.8 dB MAXIMUM IF INPUT SIGNALS AT PORTS A, B, C AND D ARE EQUAL IN AMPLITUDE OR POWER & INPHASE WITH AN OUTPUT AT PORT AZΣ. INSERTION LOSS OF 6.8 dB MAXIMUM IF INPUT SIGNAL AT PORT A, B, C or D AND ALL OTHER PORTS ARE TERMINATED TO 50 OHMS WITH AN OUTPUT AT PORTS ELΔ, AZΣ, AQ or AZΔ, WHILE MAINTAINING A MAXIMUM AMPLITUDE BALANCE OF ±0.4 dB AND A MAXIMUM PHASE BALANCE OF ±5°



August 15th, 2016

Designed By:
Dr. Ashok Gorwara

Tested & Reported By:
Sebastian Palacio

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Email: sales@pmi-rf.com

TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

DESCRIPTION

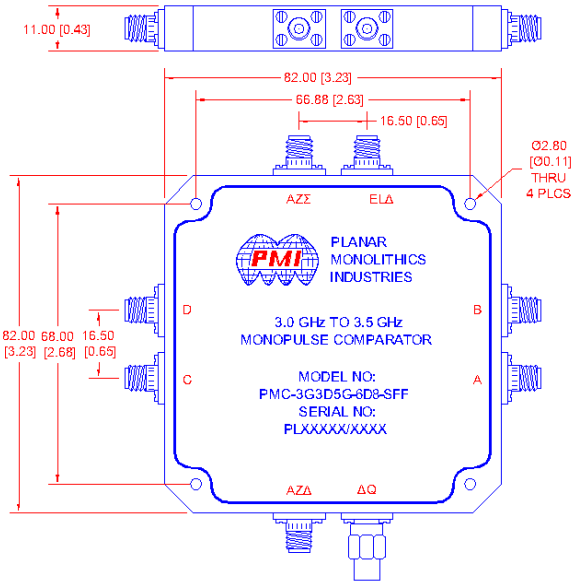
PMI MODEL: PMC-3G3D5G-6D8-SFF IS A MONOPULSE COMPARATOR OPERATING OVER THE 3.0 TO 3.5 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MAXIMUM INSERTION LOSS OF 0.8 dB MAXIMUM IF INPUT SIGNALS AT PORTS A, B, C AND D ARE EQUAL IN AMPLITUDE OR POWER & INPHASE WITH AN OUTPUT AT PORT AZΣ. INSERTION LOSS OF 6.8 dB MAXIMUM IF INPUT SIGNAL AT PORT A, B, C or D AND ALL OTHER PORTS ARE TERMINATED TO 50 OHMS WITH AN OUTPUT AT PORTS EL Δ, AZΣ, AQ or AZΔ, WHILE MAINTAINING A MAXIMUM AMPLITUDE BALANCE OF ±0.4 dB AND A MAXIMUM PHASE BALANCE OF ±5°.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	03/24/16	
	1	UPDATE PORTS	08/15/16	

SPECIFICATIONS

• FREQUENCY RANGE:	3.0 GHz TO 3.5 GHz
• INSERTION LOSS:	0.8 dB MAXIMUM (If input signals at ports A, B, C and D are equal Amplitude or Power & Inphase with an output at Port AZ Σ)
• INSERTION LOSS:	6.8 dB MAXIMUM (If input signals at port A, B, C or D and all other ports are terminated to 50 Ohms with an output at ports EL Δ, AZΣ, AQ or AZΔ)
• AMPLITUDE BALANCE:	±0.4 dB MAXIMUM
• PHASE BALANCE:	±5° MAXIMUM
• ISOLATION:	23 dB MINIMUM
• VSWR:	1.25:1 MAXIMUM
• POWER HANDLING:	AVERAGE: 11 WATT MAXIMUM (PORT A, B, C & D) PEAK: 0.1 kW MAXIMUM
• IMPEDANCE:	50 Ω
• CONNECTORS:	SMA FEMALE
• SIZE:	82 mm x 82 mm x 11 mm 3.23" x 3.23" x 0.43" EXCLUDING CONNECTORS
• FINISH:	BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

MECHANICAL OUTLINE



ENVIRONMENTAL RATINGS

• TEMPERATURE:	-55 °C TO +85 °C (OPERATING) -65 °C TO +125 °C (STORAGE)
• HUMIDITY:	MIL-STD-202, METHOD 103B COND. B
• SHOCK:	MIL-STD-202, METHOD 213B COND. B
• VIBRATION:	MIL-STD-202, METHOD 204D COND. B
• ALTITUDE:	MIL-STD-202, METHOD 105C COND. B
• TEMPERATURE CYCLE:	MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN mm[INCH]
TOLERANCES:
X.XX ± 0.508 [0.020]
X.XXX ± 0.254 [0.010]

PMI CONFIDENTIAL AND PROPRIETARY

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7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE	TITLE: PRODUCT FEATURE 3.0 TO 3.5 GHz Monopulse Comparator PMC-3G3D5G-6D8-SFF	
DRAWN: M. Berry	05/28/16		
CHECKED		SIZE: A	TOOL NO.: 05XQ0
ISSUED		DWG NO.: PRELIMINARY	REV.: 1
		SCALE: N:S	SHEET: 1 OF 1

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TYPICAL CHARACTERISTICS ON PMC-3G3D5G-6D8-SFF

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	3.0 GHz To 3.5 GHz	**3.0 GHz to 3.5 GHz See Plots**	
2	Insertion Loss:	0.8 dB Max (If input signals at ports A, B, C and D are equal Amplitude or Power & Inphase with an output at Port AZΣ)	**0.4dB Max See Page 4**	
3	Insertion Loss:	6.8 dB MAXIMUM (If input signals at port A, B, C or D and all other ports are terminated to 50 Ohms with an output at ports ELΔ, AZΣ, AQ or AZΔ)	**6.077 dB Min 6.6132 dB Max See Plots**	
4	Amplitude Balance:	+/-0.4 dB Max	**+/-0.2681 dB See Plots**	
5	Phase Balance:	+/-5 Degrees	**+/-3.2 Degrees See Plots**	
6	Isolation:	23 dB Min	**25.052 dB See Plots**	
7	VSWR / Return Loss:	1.25:1 Max	**1.25:1 / -18.841dB See Plots**	
8	Power Handling:	Average 11W Max (Ports A, B, C & D) Peak 0.1kW Max	**Average 11W Max (Ports A, B, C & D) Peak 0.1kW Max See Page 4**	
9	Weight:	10 oz	**8 oz**	

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TYPICAL CHARACTERISTICS
ON
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Test Setup to Validate Summation of Port (A+B) + (C+D)

Test No. 1 at 3.25GHz

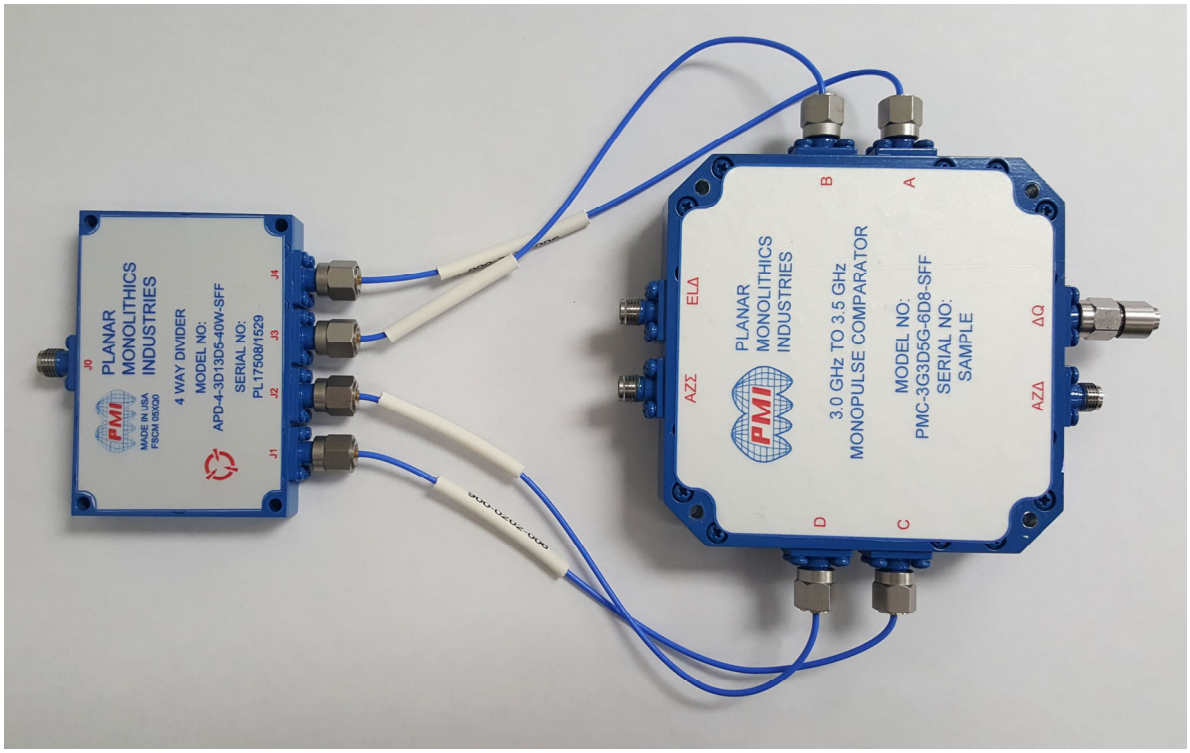
RF Power @ Port A = 0dBm (1 mW)
RF Power @ Port B = 0dBm (1 mW)
RF Power @ Port C = 0dBm (1 mW)
RF Power @ Port D = 0dBm (1 mW)
All other Ports Terminated to 50 Ohms

RF Power @ Port AZ∑ = 5.6 dBm (3.6 mW) = (6 dBm (4 mW) – Insertion Loss of 0.4 dB)
RF Power @ Port ΔQ = -20.5 dBm

Test No. 2 at 3.25GHz

RF Power @ Port A = 40.38 dBm (10.91 W)
RF Power @ Port B = 40.38 dBm (10.91 W)
RF Power @ Port C = 40.38 dBm (10.91 W)
RF Power @ Port D = 40.38 dBm (10.91 W)
All other Ports Terminated to 50 Ohms

RF Power @ Port AZ∑ = 46 dBm (40 W) = (46.4 dBm (43.65 W) – Insertion Loss of 0.4 dB)
RF Power @ Port ΔQ = 25.5 dBm



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TYPICAL CHARACTERISTICS ON PMC-3G3D5G-6D8-SFF

Phase Data Relative to AZ∑

S-Parameter Plots - Pages 6 to 21

	A	B	C	D	EL△	AZ∑	△Q	AZ△
A		Isolation	Isolation	Isolation	+90˚	0˚	+90˚	0˚
B			Isolation	Isolation	+90˚	0˚	-90˚ / +270˚	+180˚
C	Isolation	Isolation		Isolation	-90˚ / +270˚	0˚	+90˚	+180˚
D	Isolation	Isolation	Isolation		-90˚ / +270˚	0˚	-90˚ / +270˚	0˚
EL△	+90˚	+90˚	-90˚ / +270˚	-90˚ / +270˚		Isolation	Isolation	Isolation
AZ∑	0˚	0˚	0˚	0˚	Isolation		Isolation	Isolation
△Q	+90˚	-90˚ / +270˚	+90˚	-90˚ / +270˚	Isolation	Isolation		Isolation
AZ△	0˚	+180˚	+180˚	0˚	Isolation	Isolation	Isolation	

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TYPICAL CHARACTERISTICS
ON
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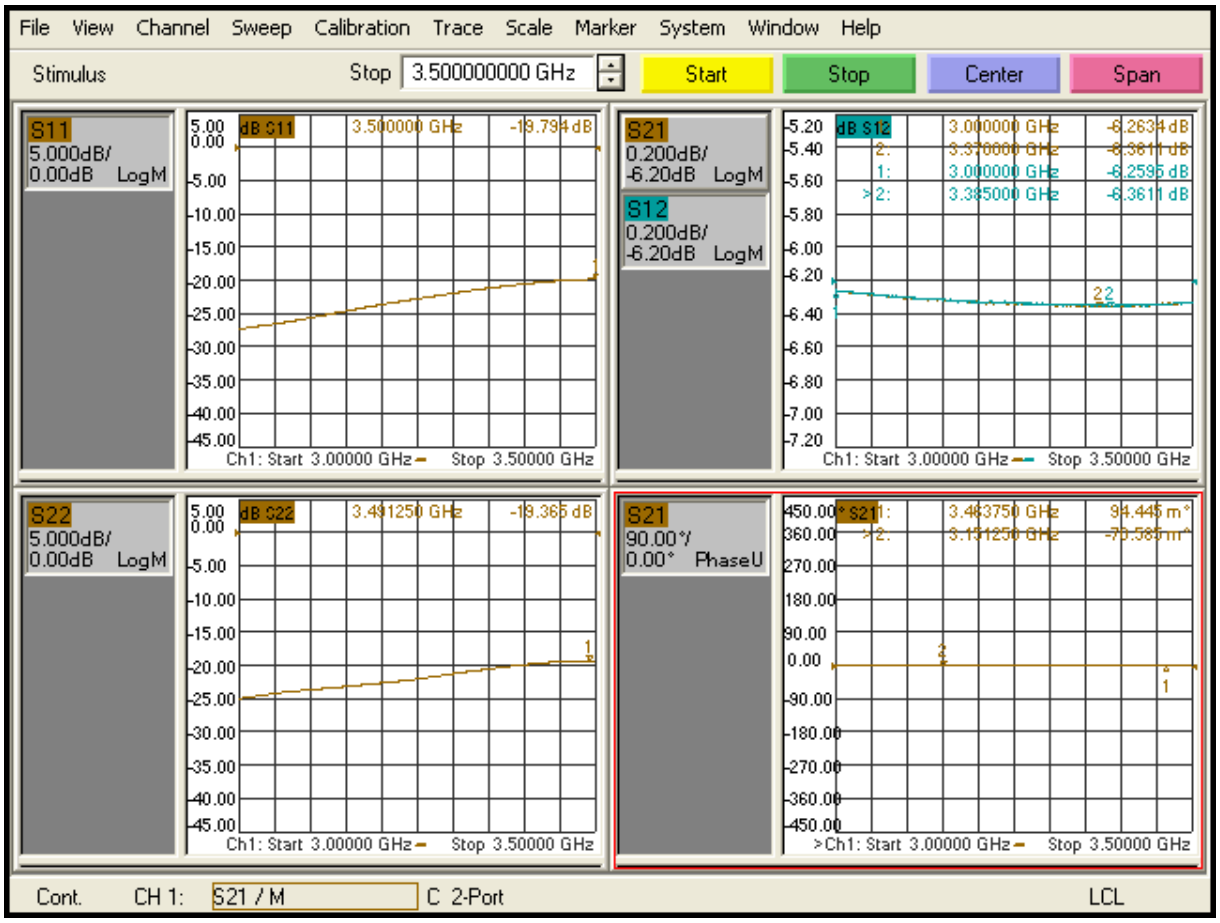
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to AZ∑
(Normalized Phase)



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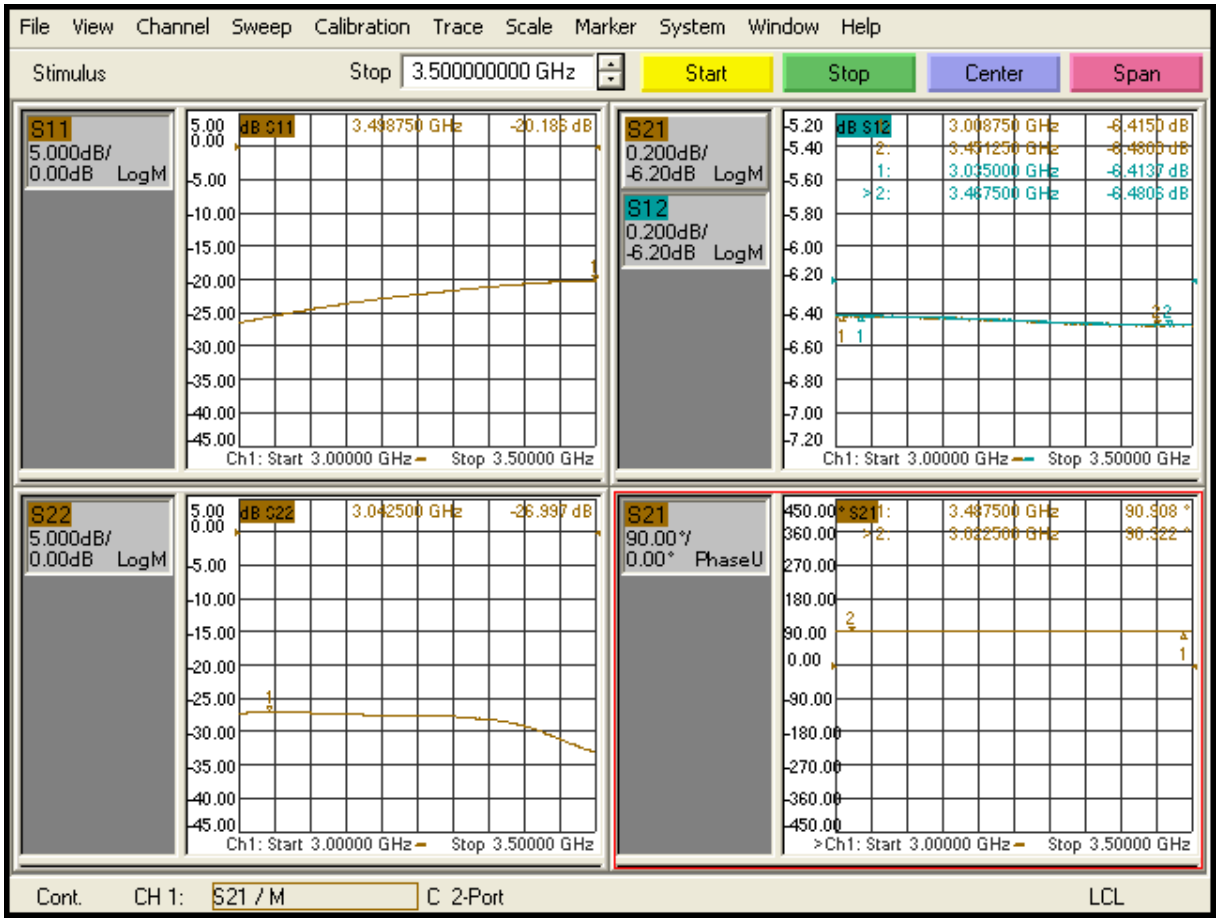
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to EL∆



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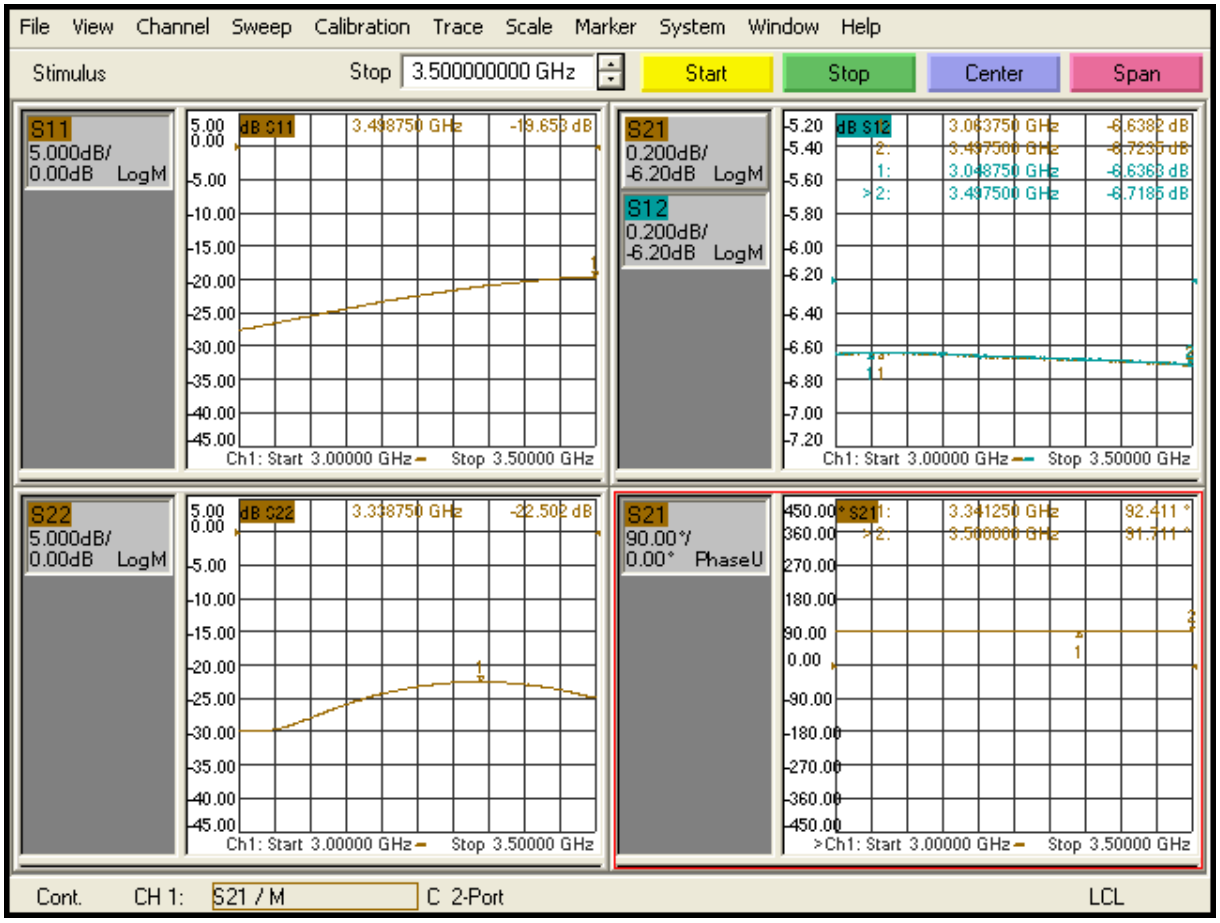
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to ΔQ



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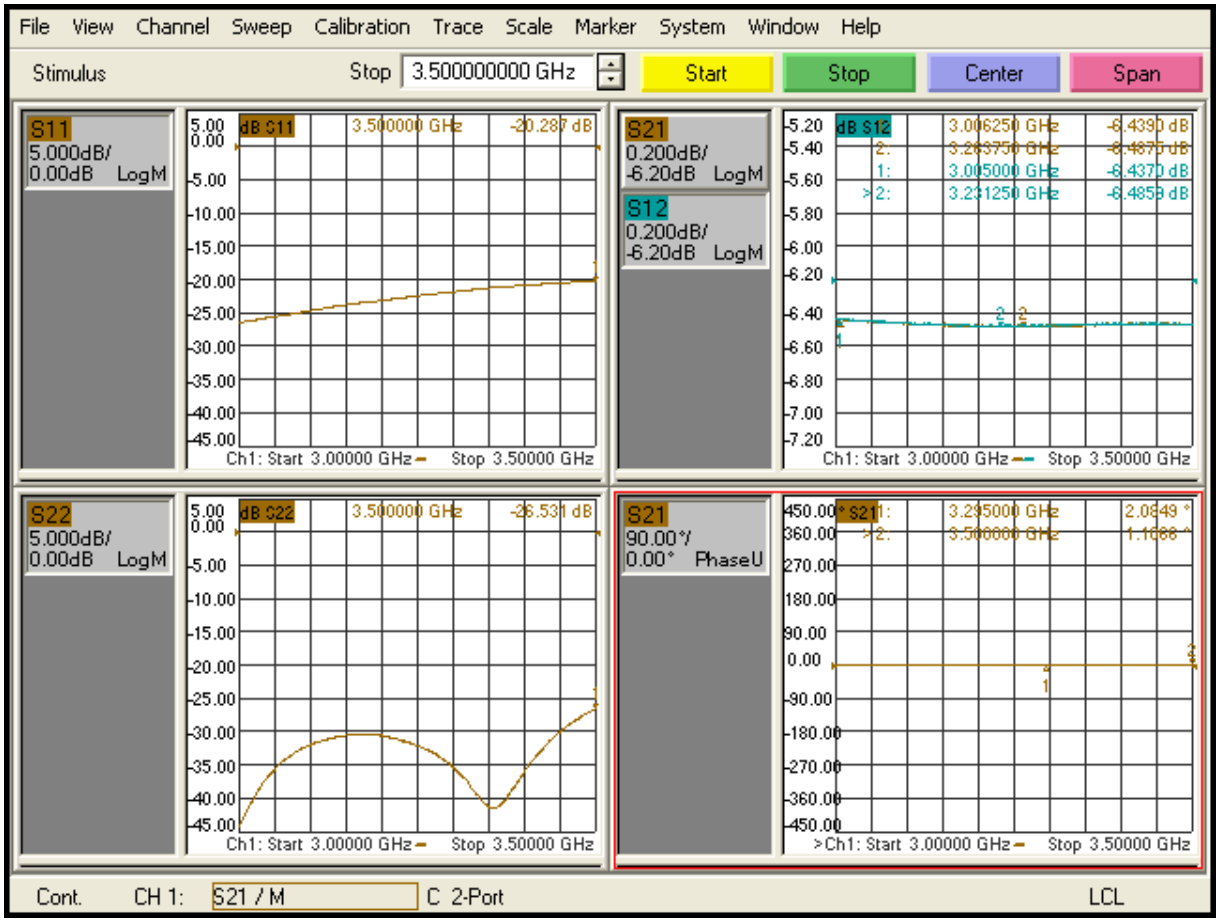
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to AZΔ



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TYPICAL CHARACTERISTICS
ON
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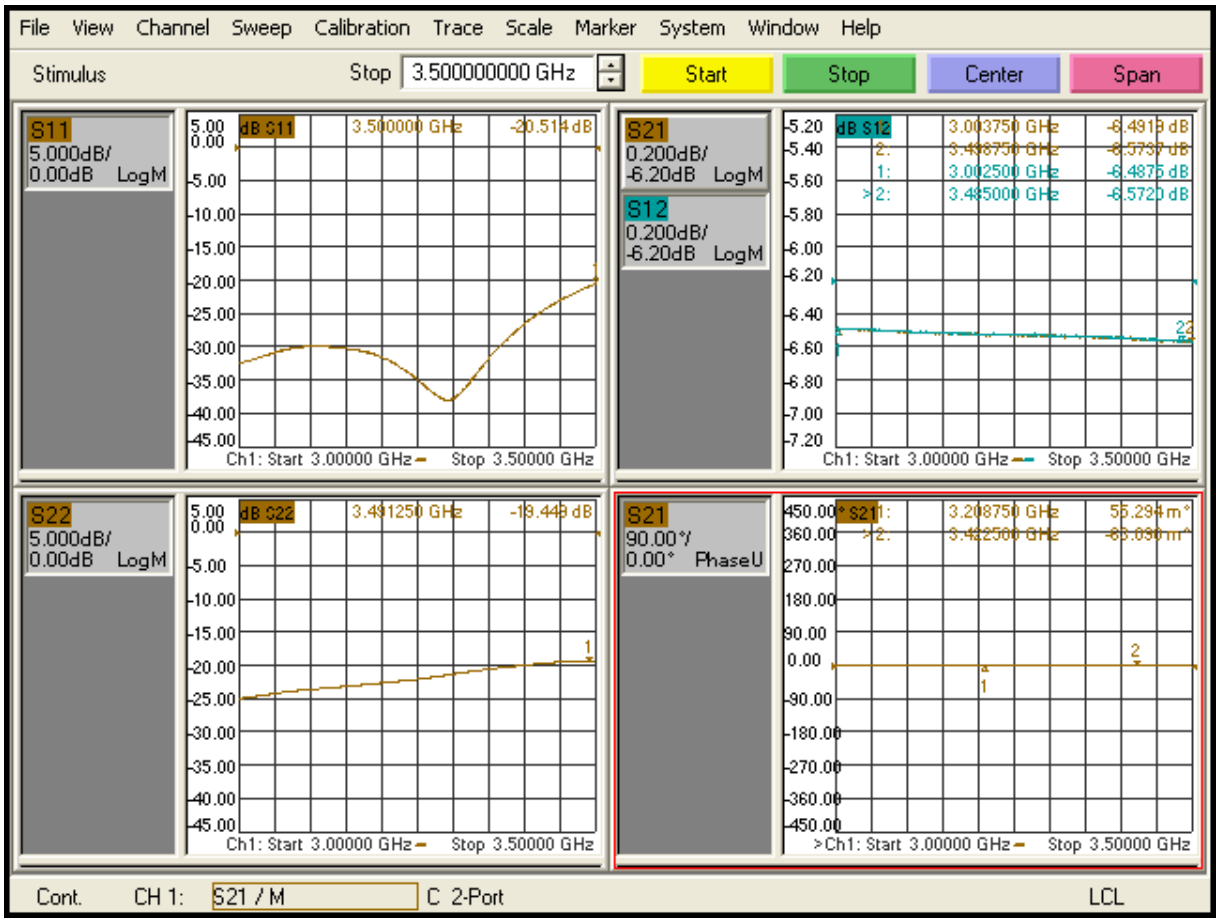
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

B to AZ∑
(Normalized Phase)



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TYPICAL CHARACTERISTICS
ON
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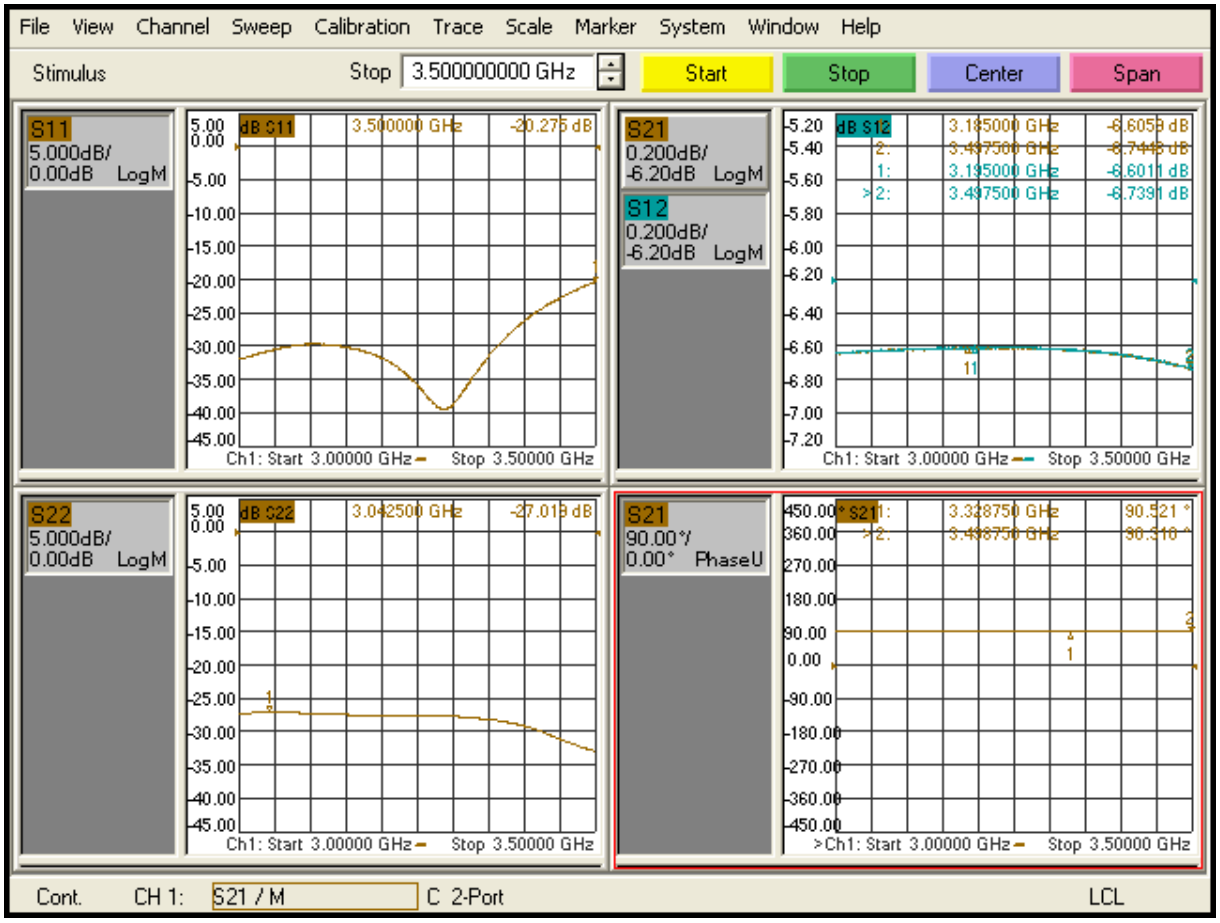
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

B to EL∆



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TYPICAL CHARACTERISTICS
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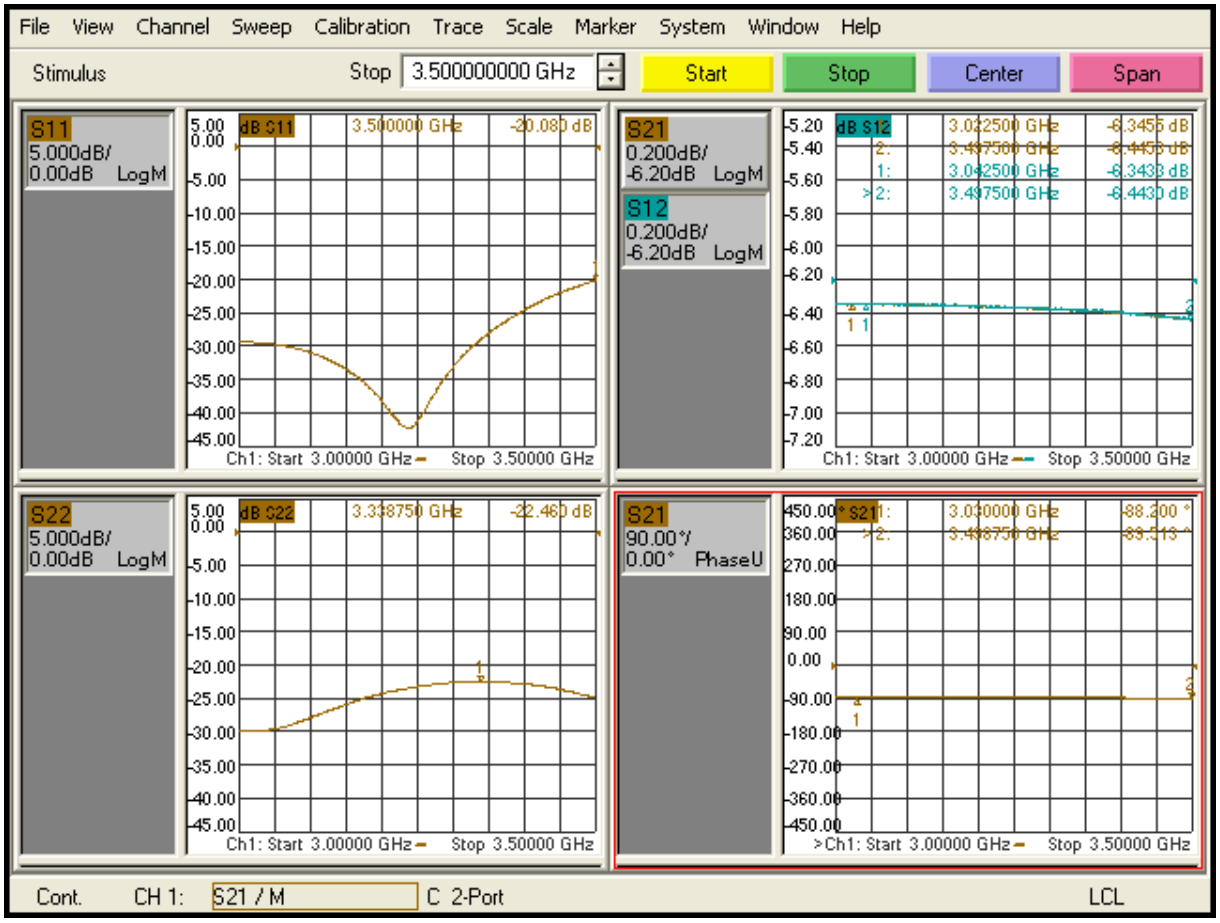
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

B to ΔQ



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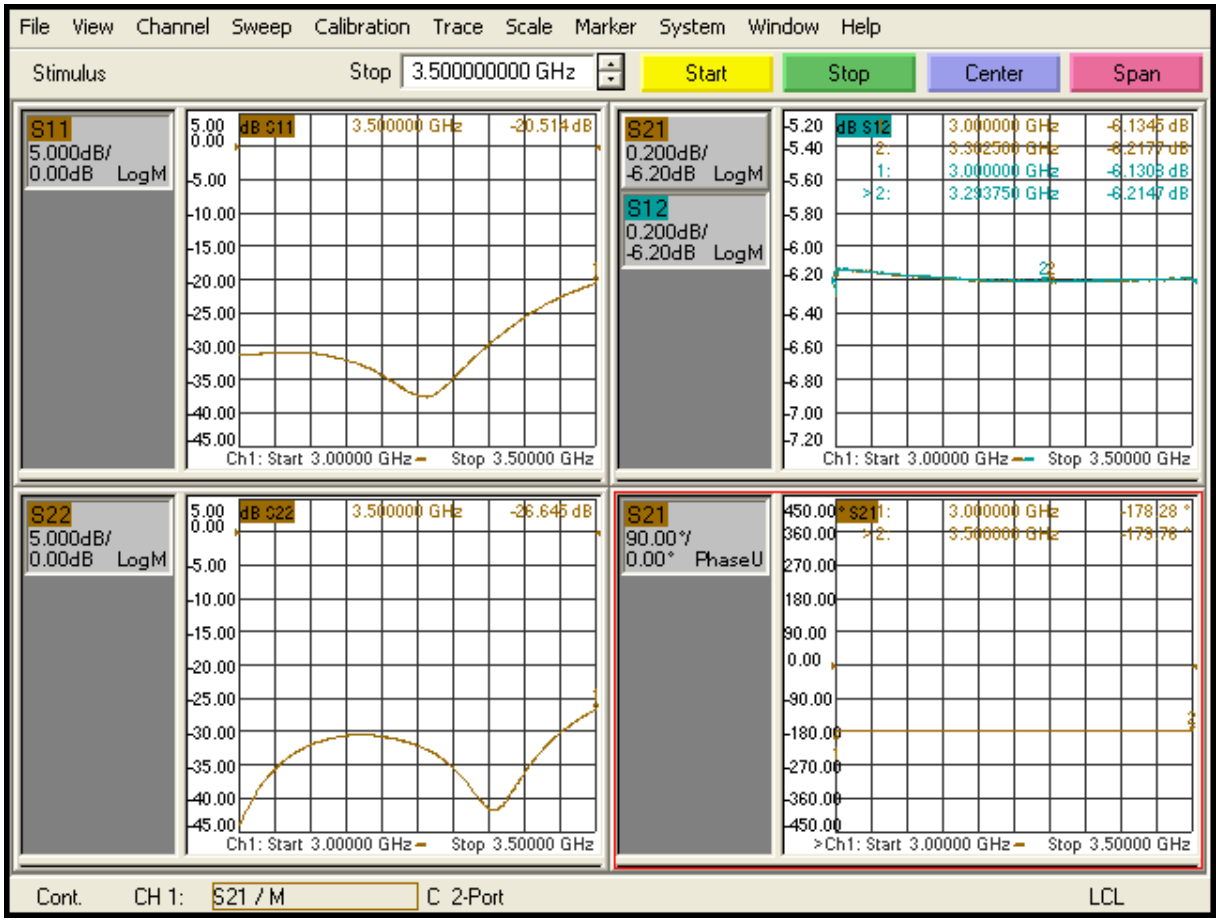
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

B to AZΔ



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TYPICAL CHARACTERISTICS
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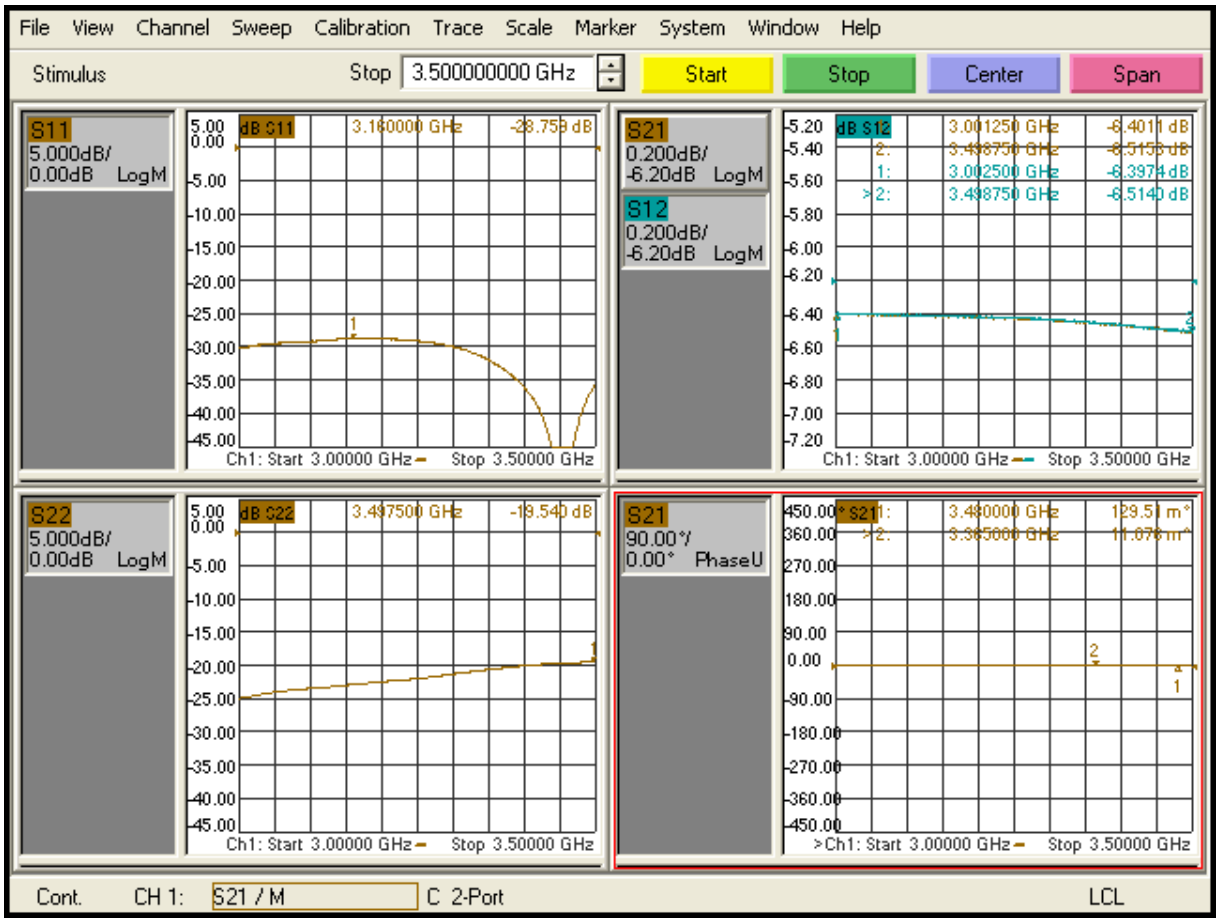
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

C to AZ∑
(Normalized Phase)



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TYPICAL CHARACTERISTICS
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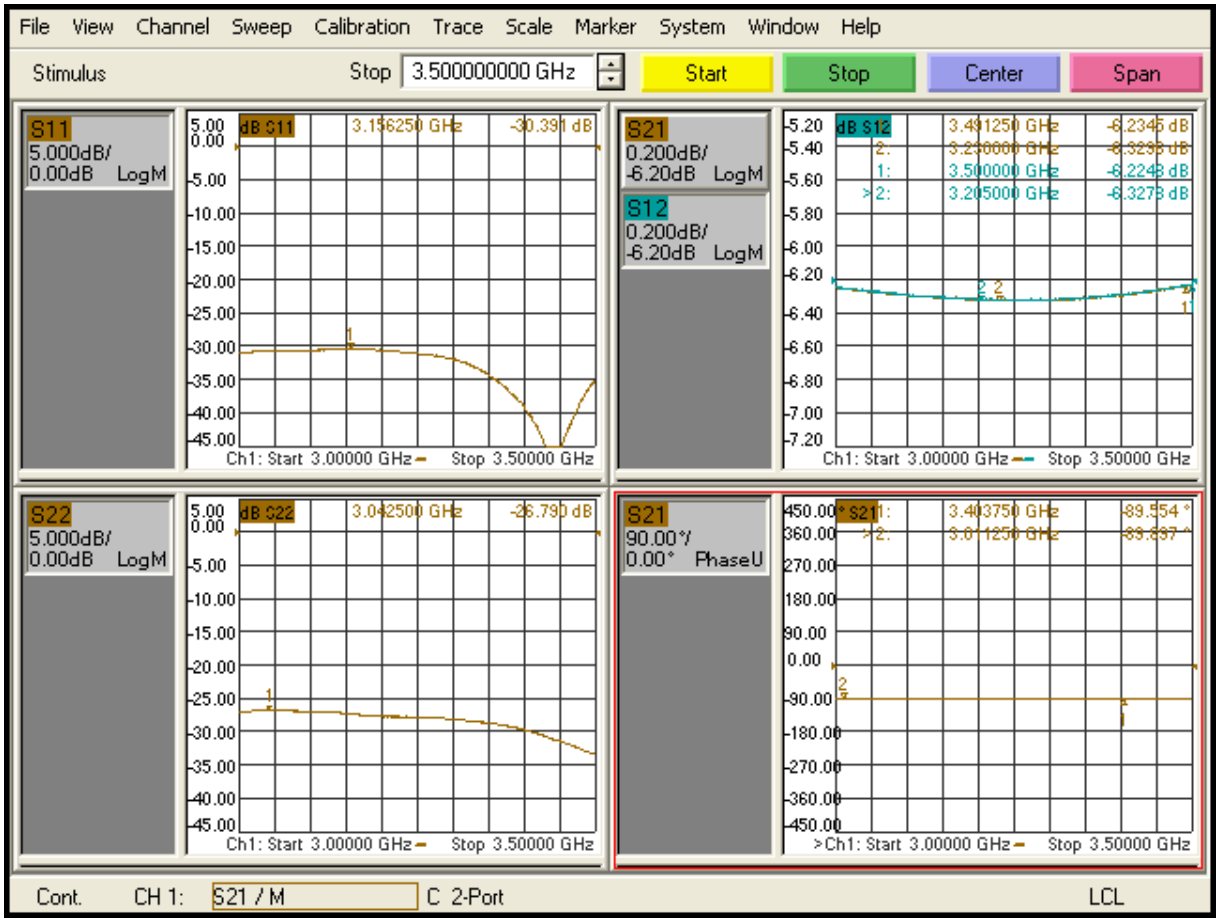
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

C to EL∆



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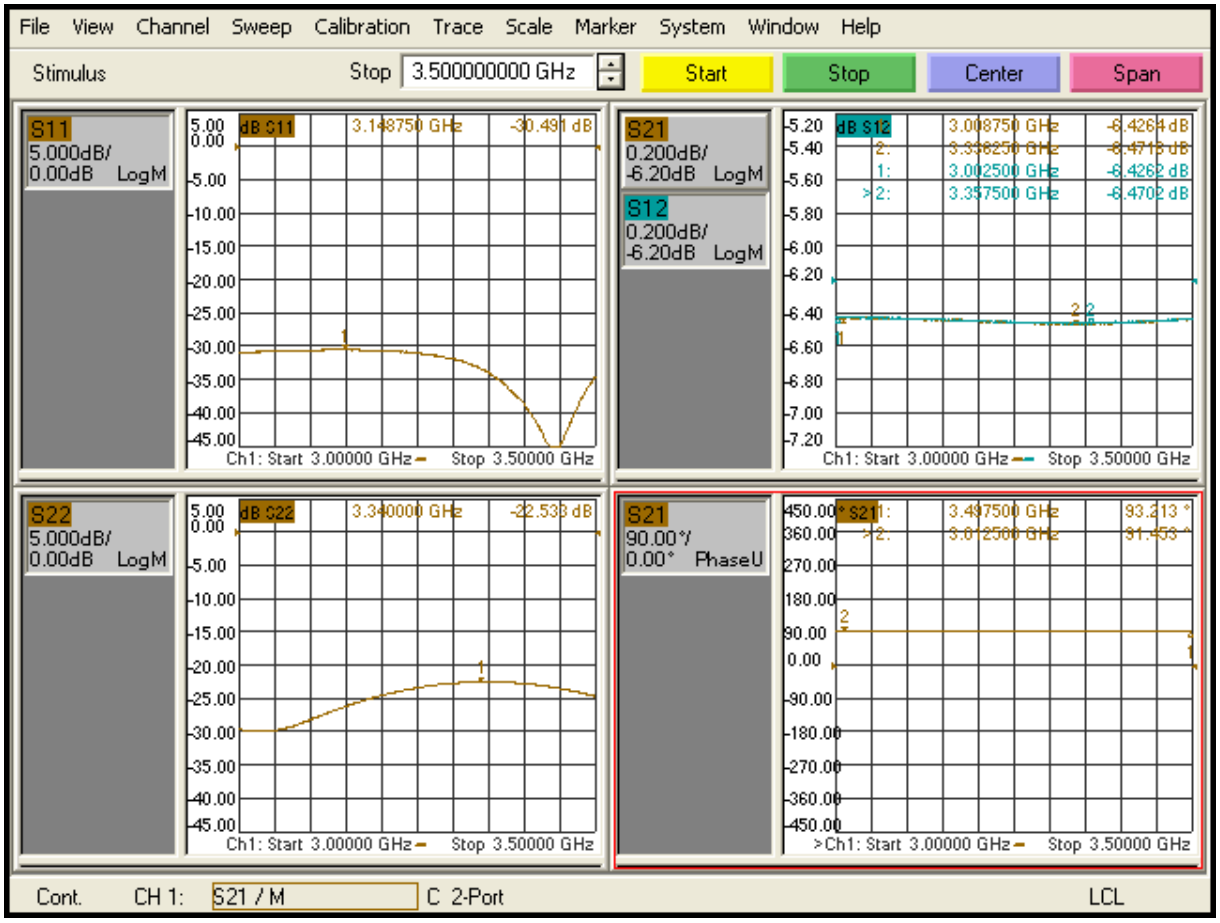
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

C to ΔQ



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TYPICAL CHARACTERISTICS
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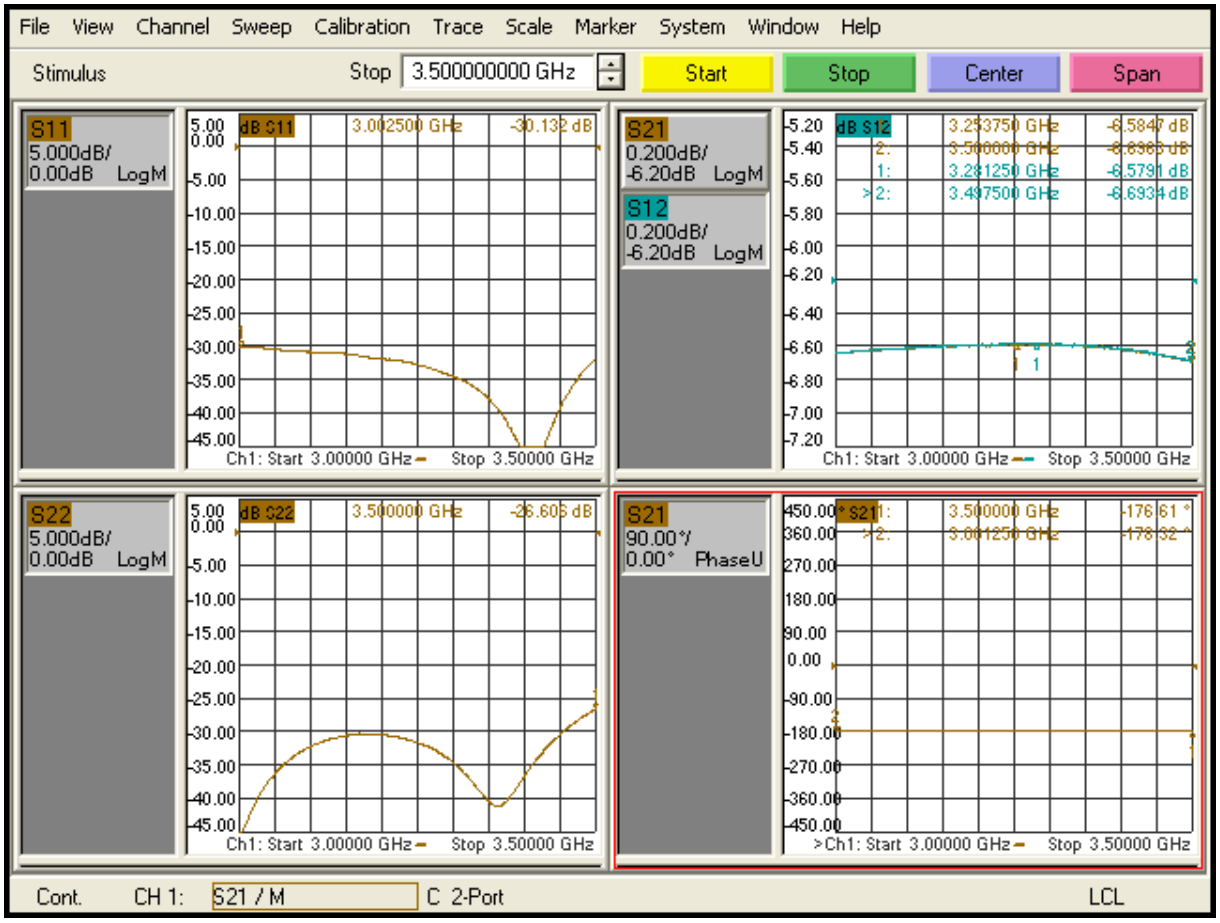
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

C to AZΔ



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TYPICAL CHARACTERISTICS
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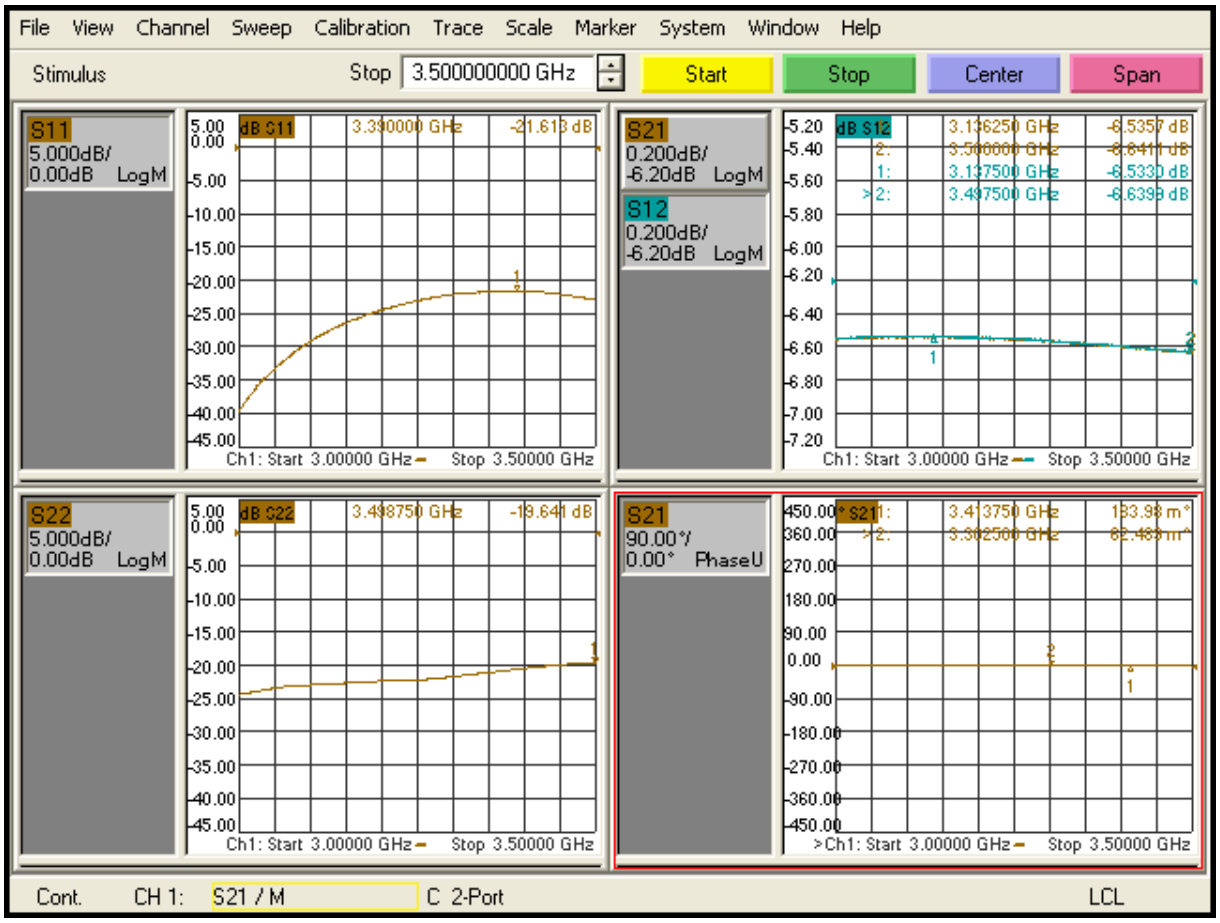
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to AZ∑
(Normalized Phase)



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TYPICAL CHARACTERISTICS
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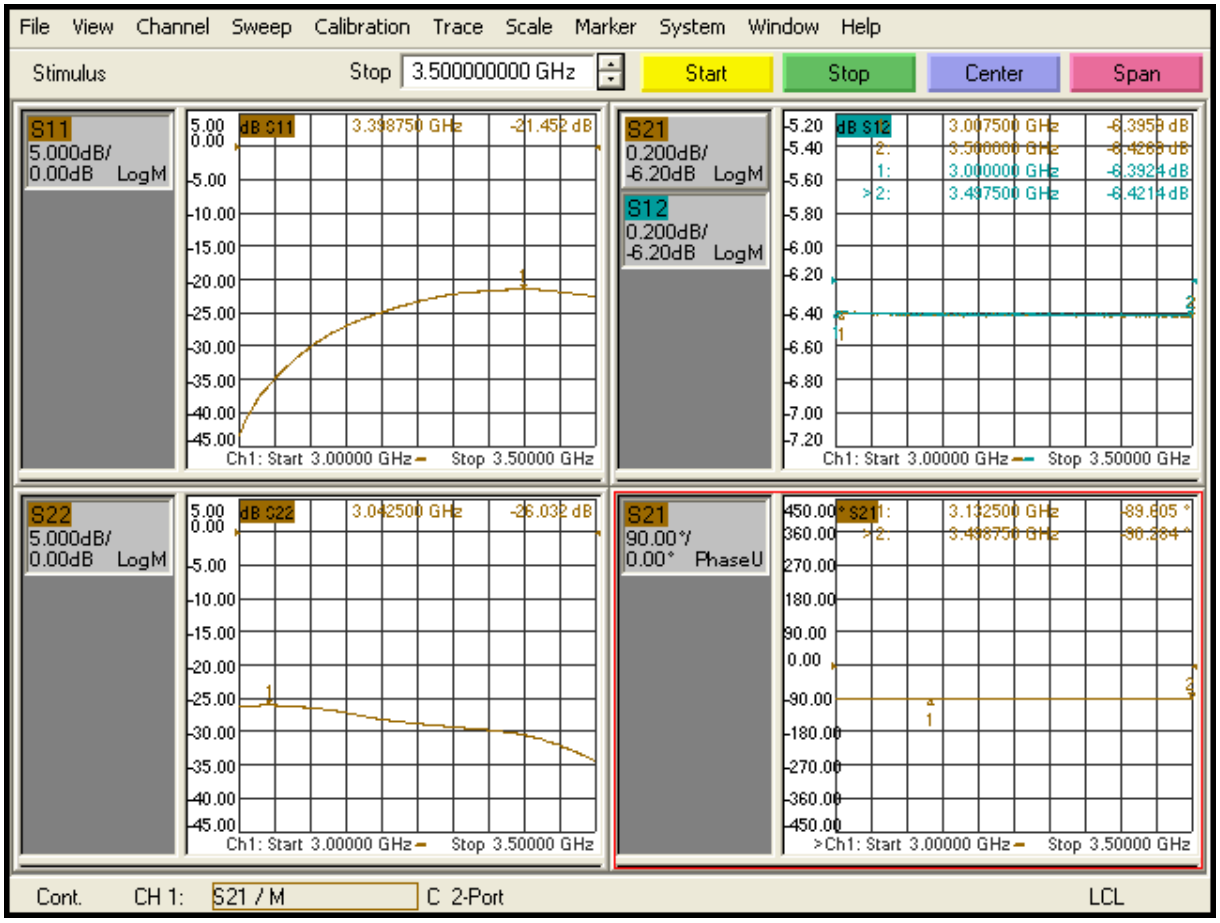
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to EL∆



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TYPICAL CHARACTERISTICS
ON
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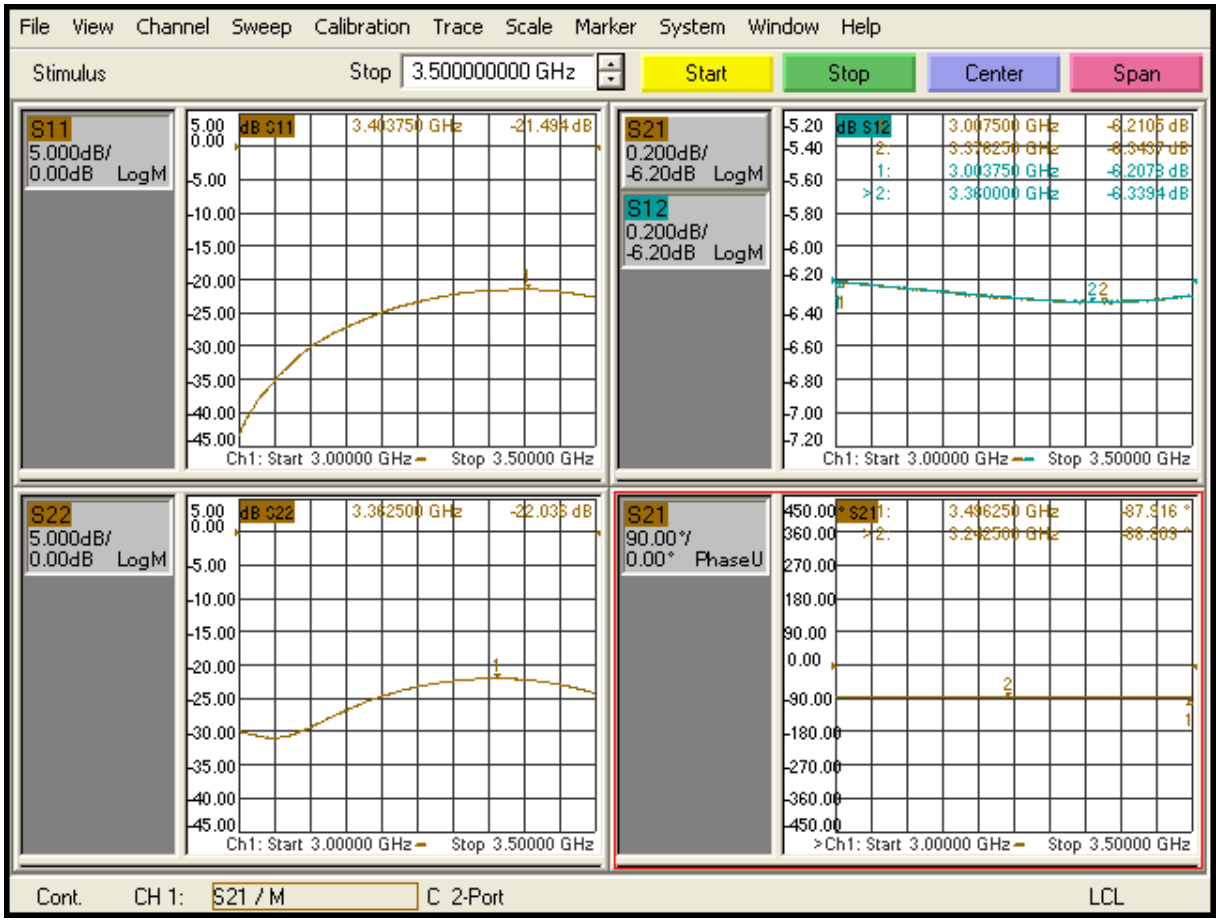
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to ΔQ



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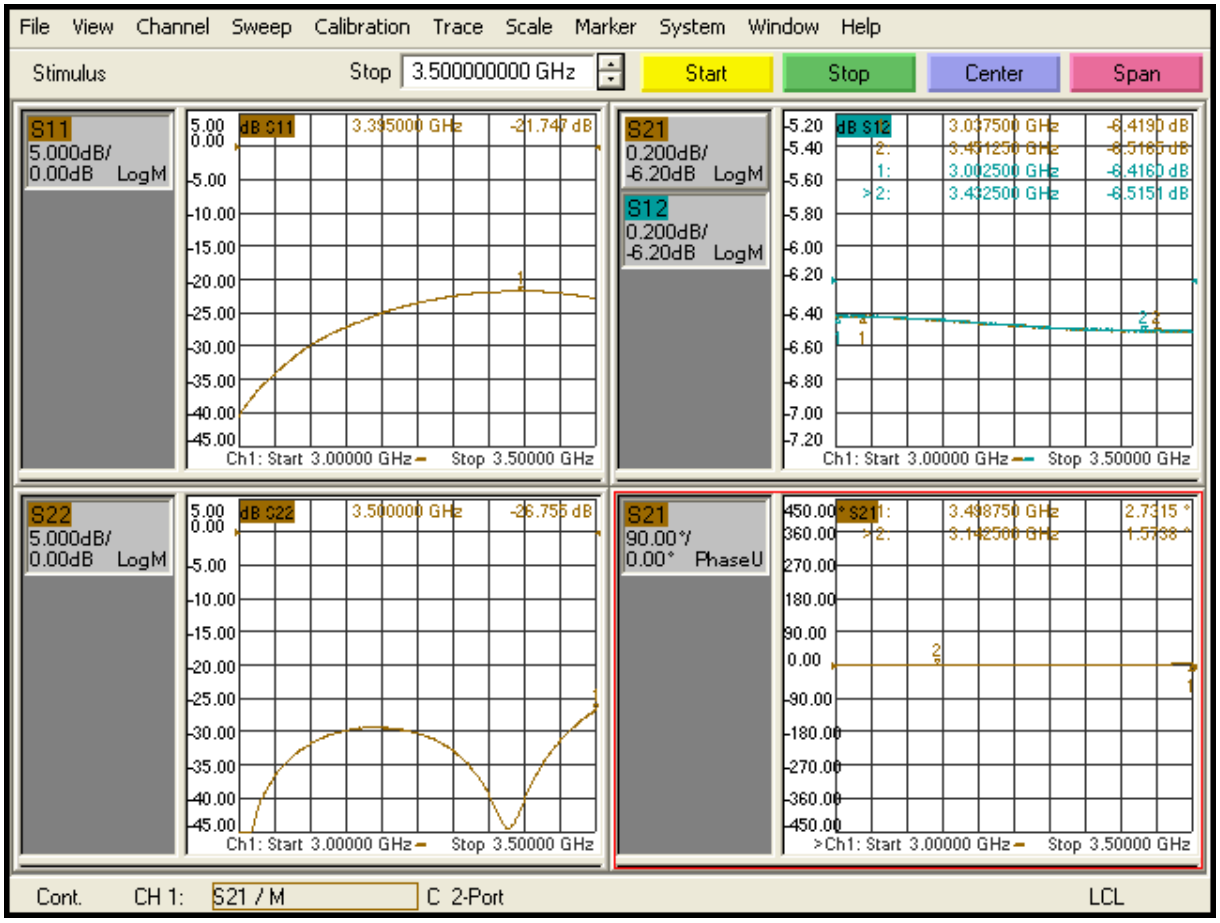
Return Loss (S11& S22)

D to AZΔ



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TYPICAL CHARACTERISTICS ON PMC-3G3D5G-6D8-SFF

Phase Data Relative to ELΔ

S-Parameters Plots - Page 23 to 50

	A	B	C	D	ELΔ	AZΣ	ΔQ	AZΔ
A		Isolation	Isolation	Isolation	0˚	-90˚ / +270˚	+180˚	+90˚
B			Isolation	Isolation	0˚	-90˚ / +270˚	0˚	-90˚ / +270˚
C	Isolation	Isolation		Isolation	0˚	+90˚	0˚	+90˚
D	Isolation	Isolation	Isolation		0˚	+90˚	+180˚	-90˚ / +270˚
ELΔ	0˚	0˚	0˚	0˚		Isolation	Isolation	Isolation
AZΣ	-90˚ / +270˚	-90˚ / +270˚	+90˚	+90˚	Isolation		Isolation	Isolation
ΔQ	+180˚	0˚	0˚	+180˚	Isolation	Isolation		Isolation
AZΔ	+90˚	-90˚ / +270˚	+90˚	-90˚ / +270˚	Isolation	Isolation	Isolation	

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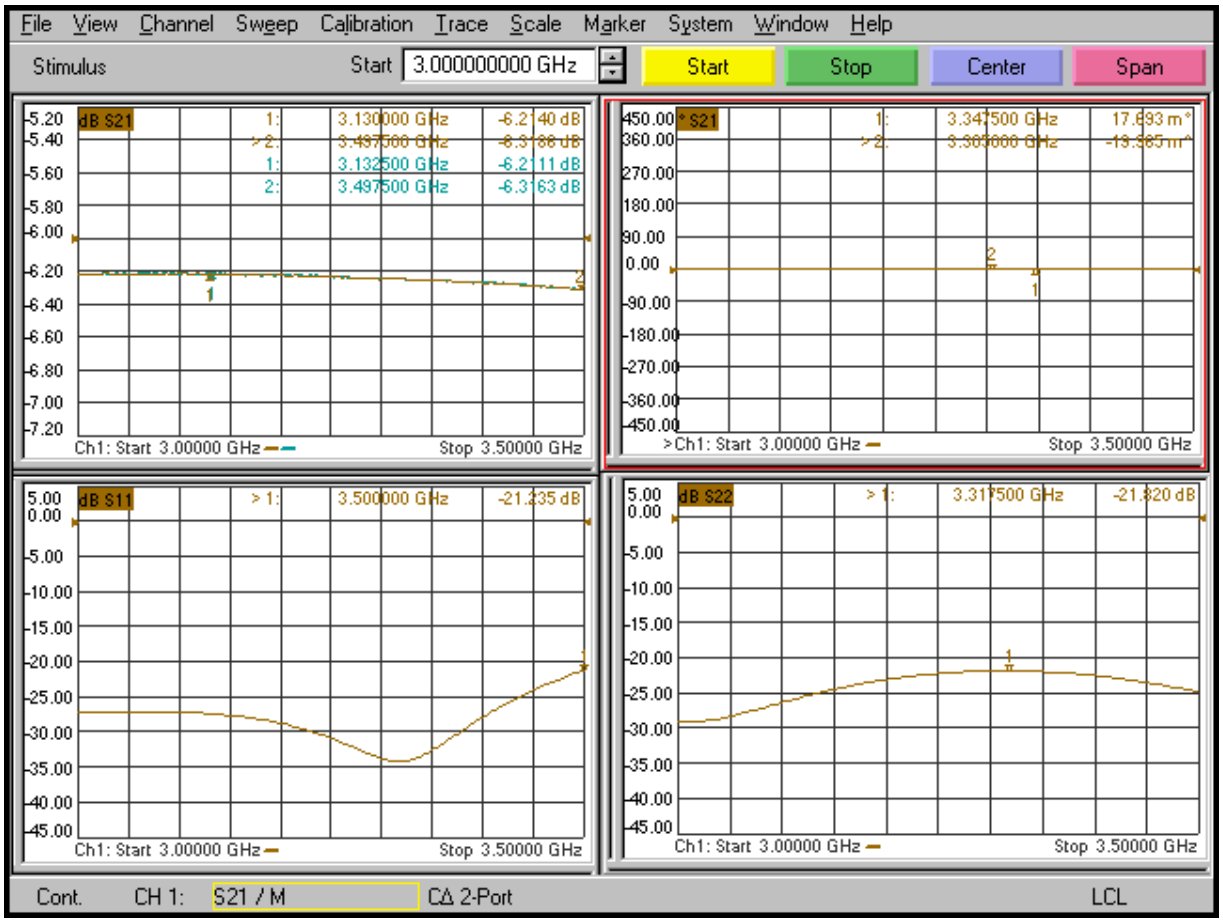
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to EL∆
(Normalized Phase)



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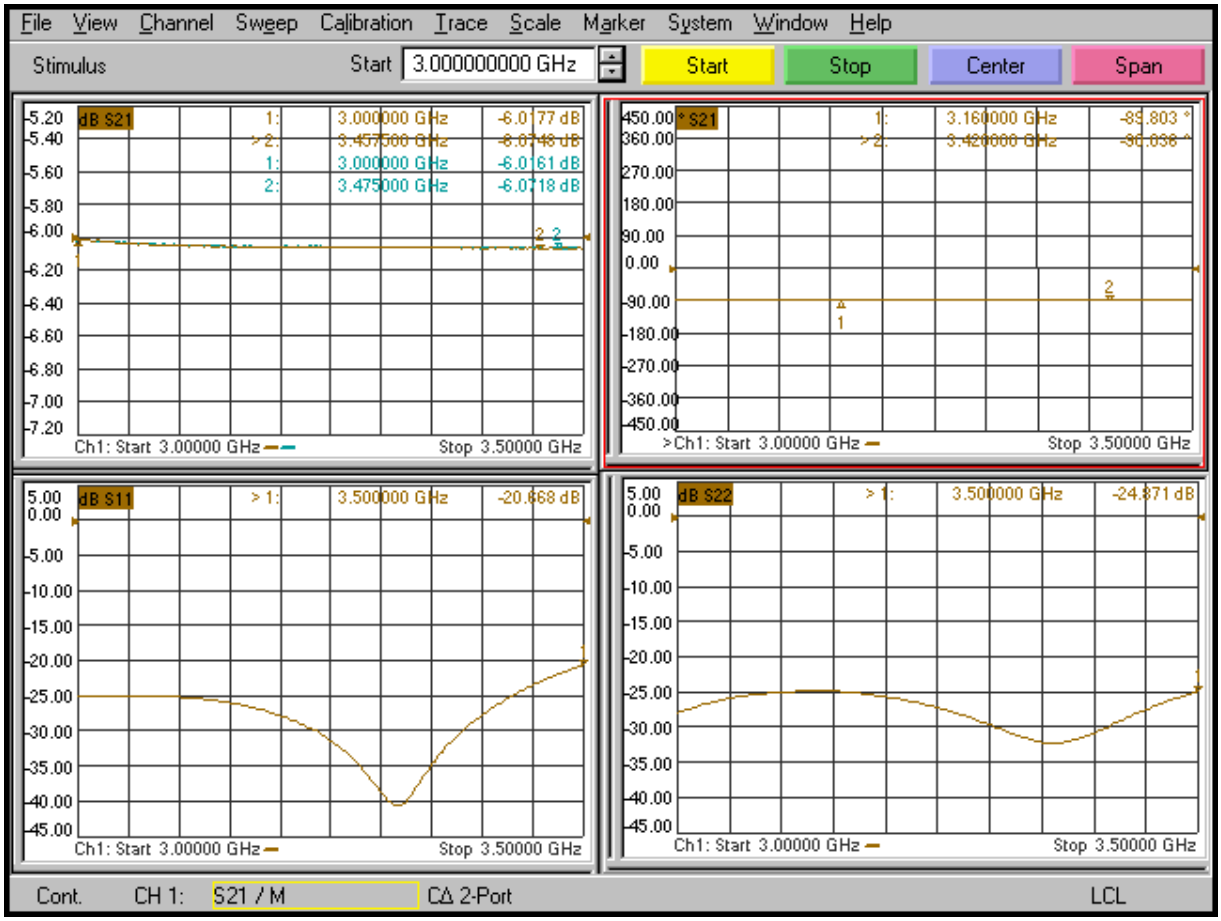
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to AZ∑



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TYPICAL CHARACTERISTICS
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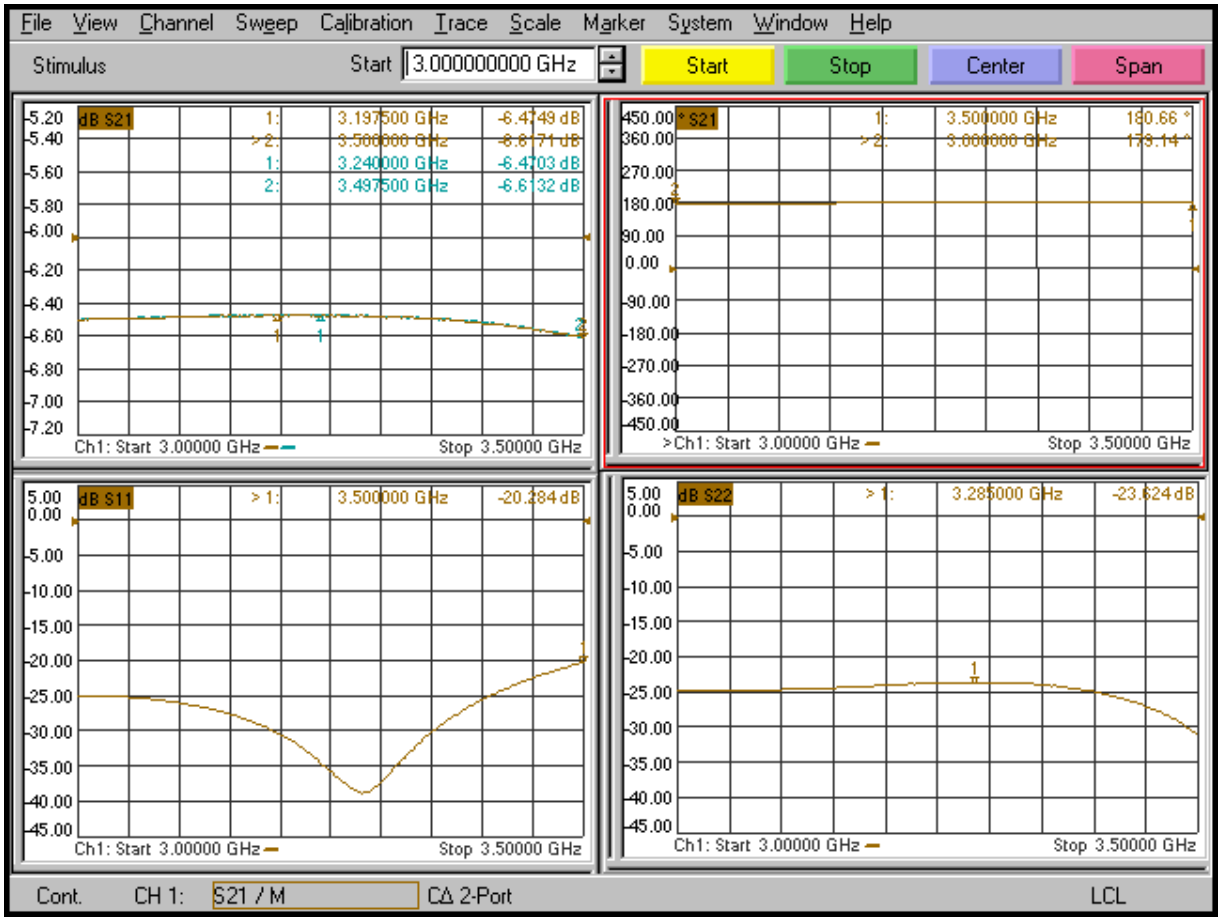
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to ΔQ



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TYPICAL CHARACTERISTICS
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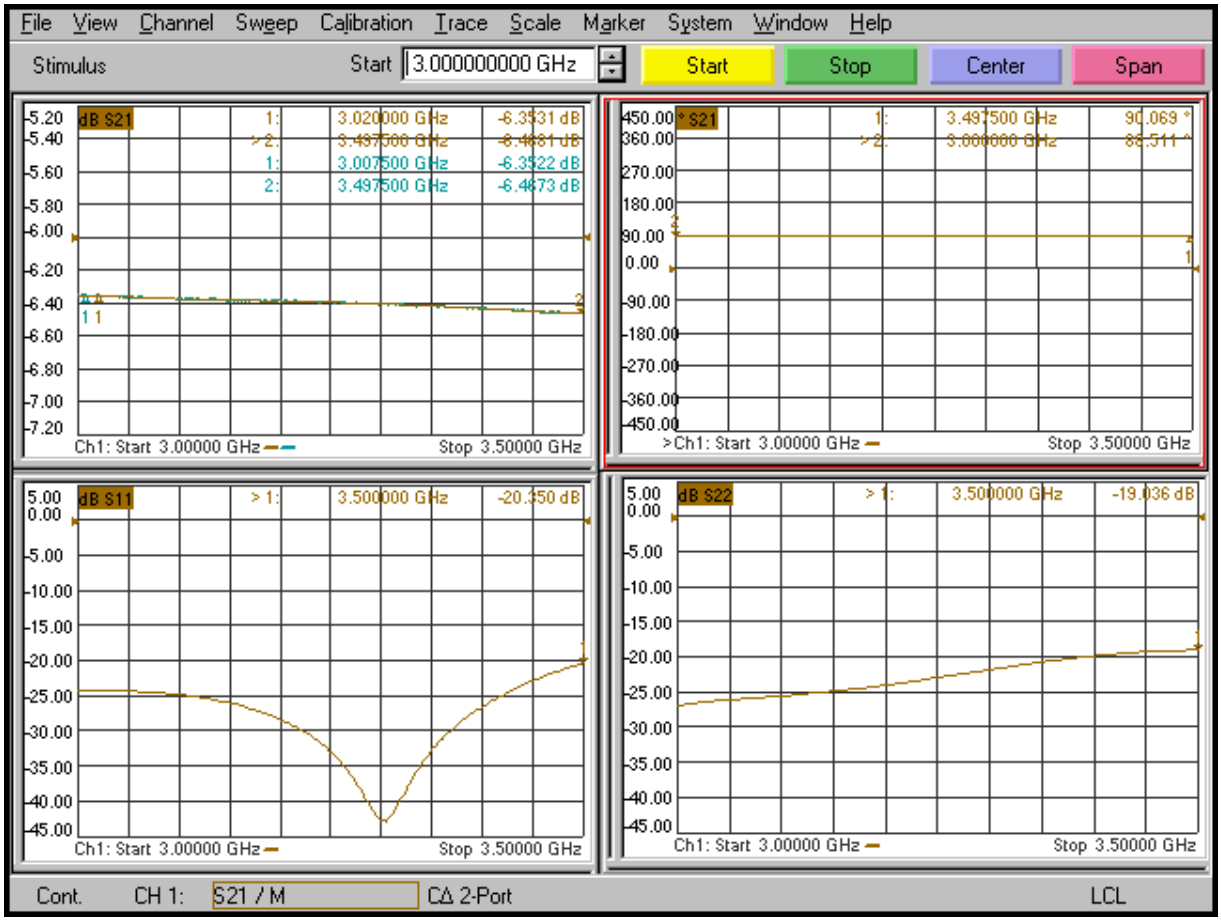
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to AZΔ



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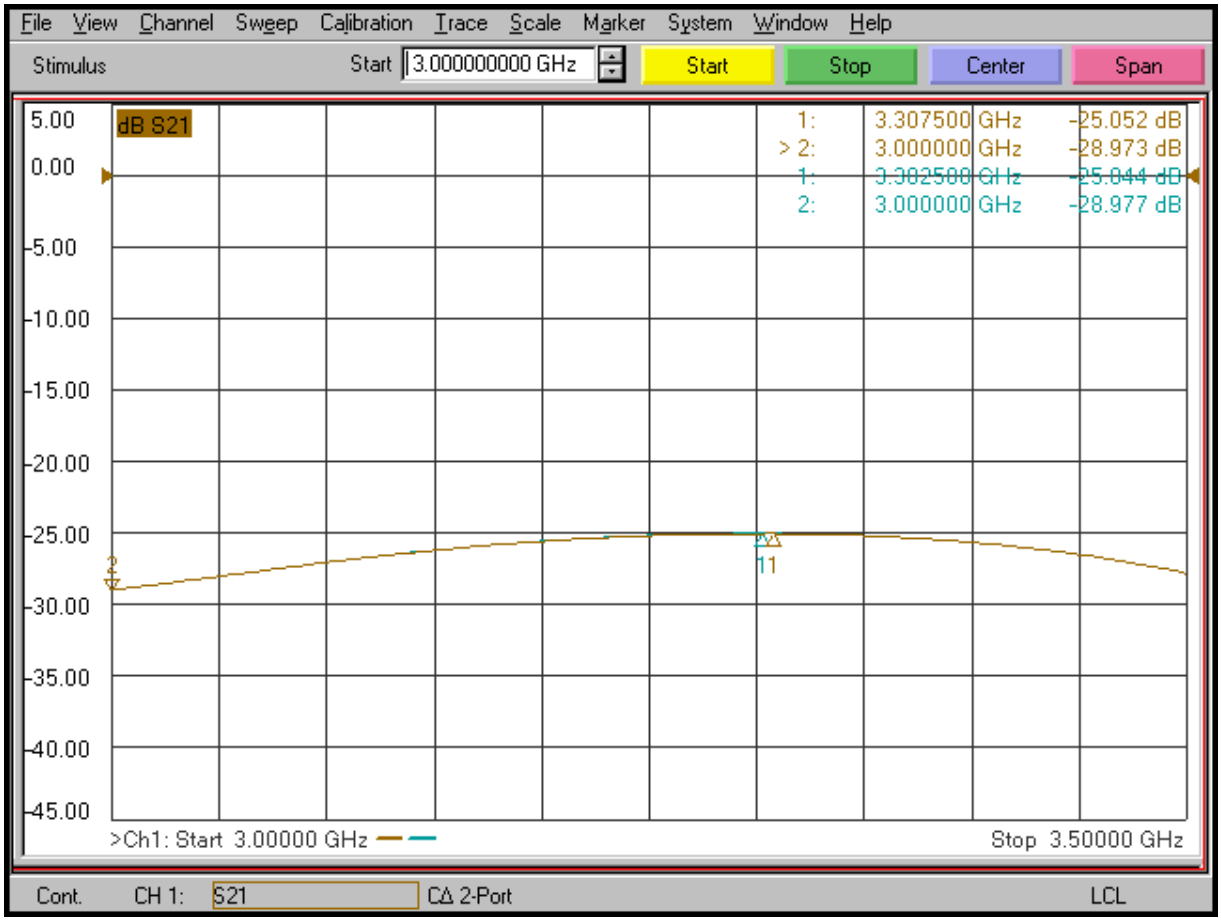
Email: sales@pmi-rf.com

TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

A to B Isolation



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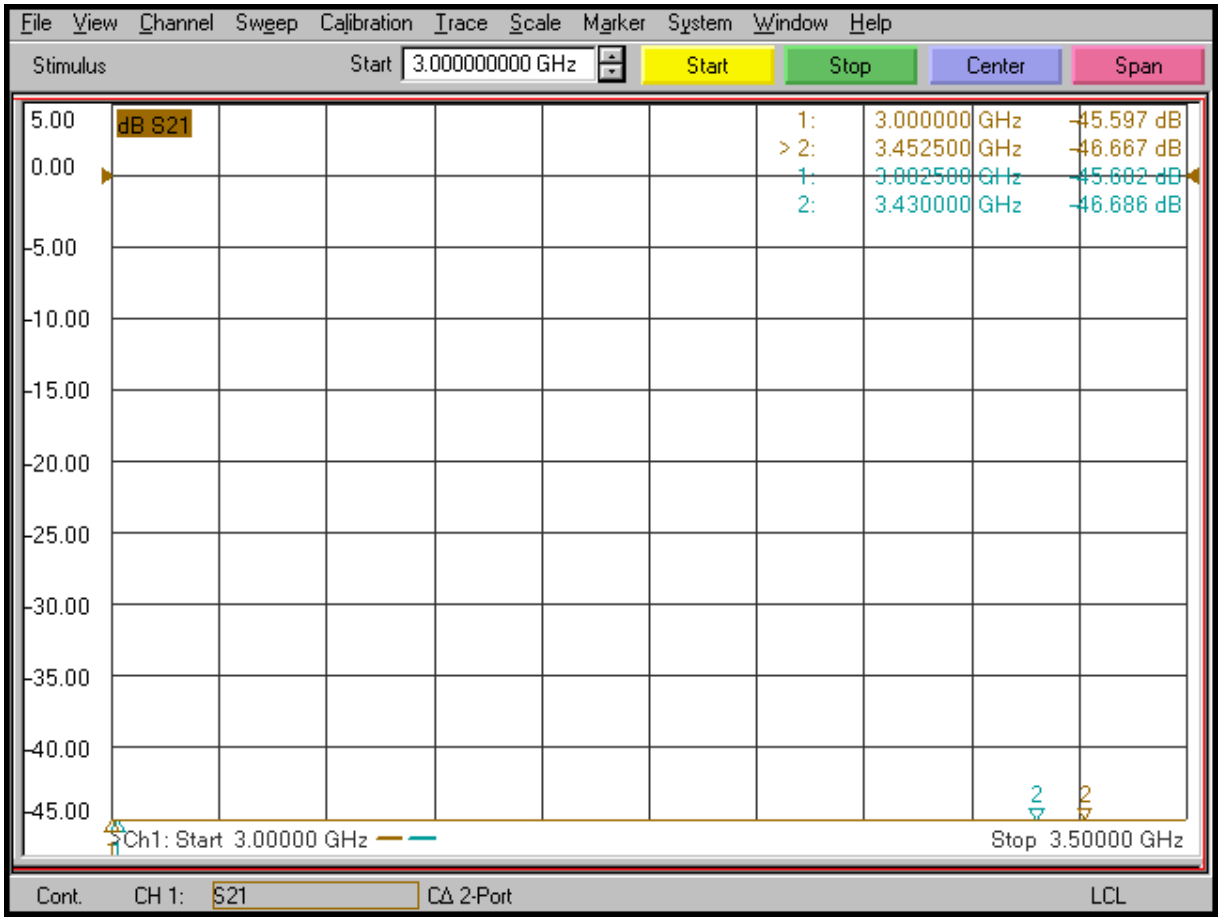
Email: sales@pmi-rf.com

TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

A to C Isolation



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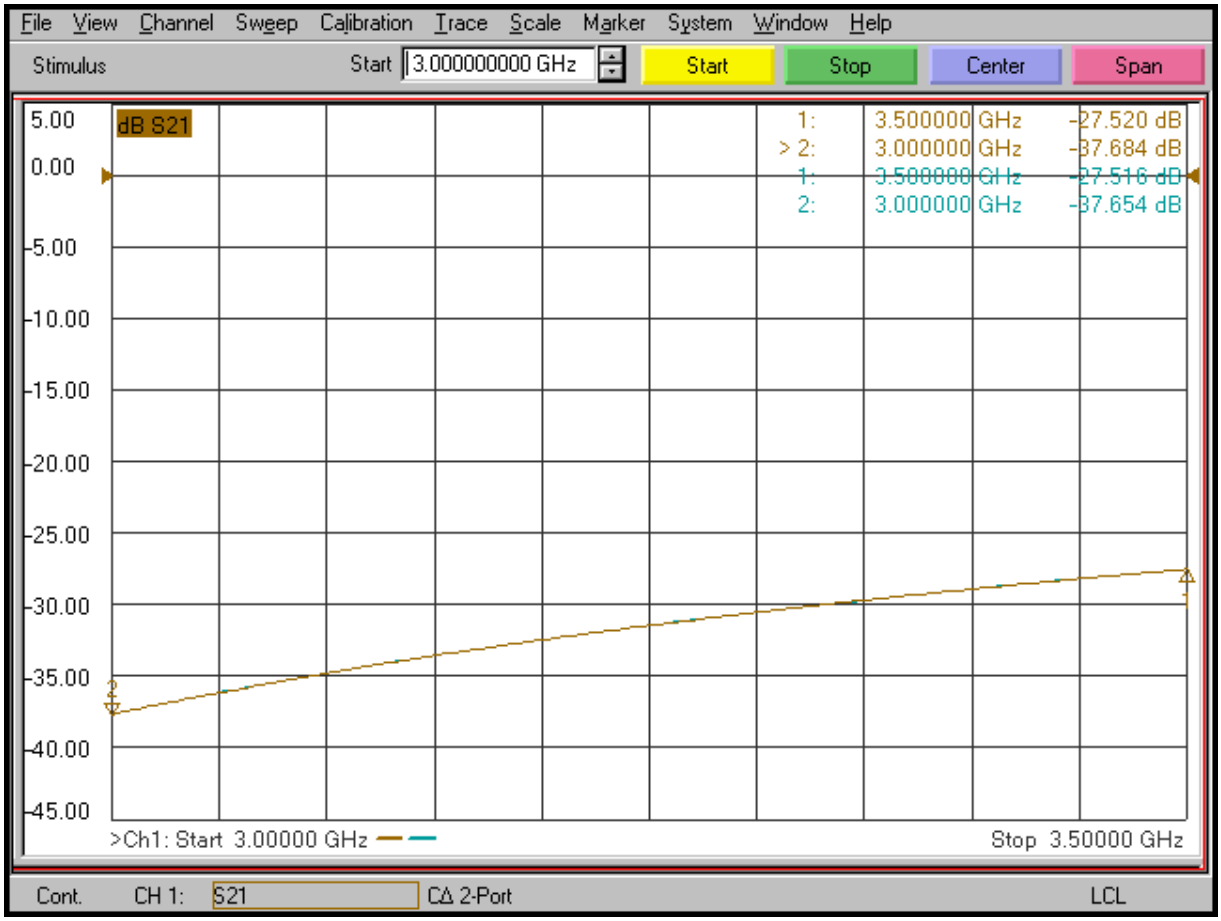
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

A to D Isolation



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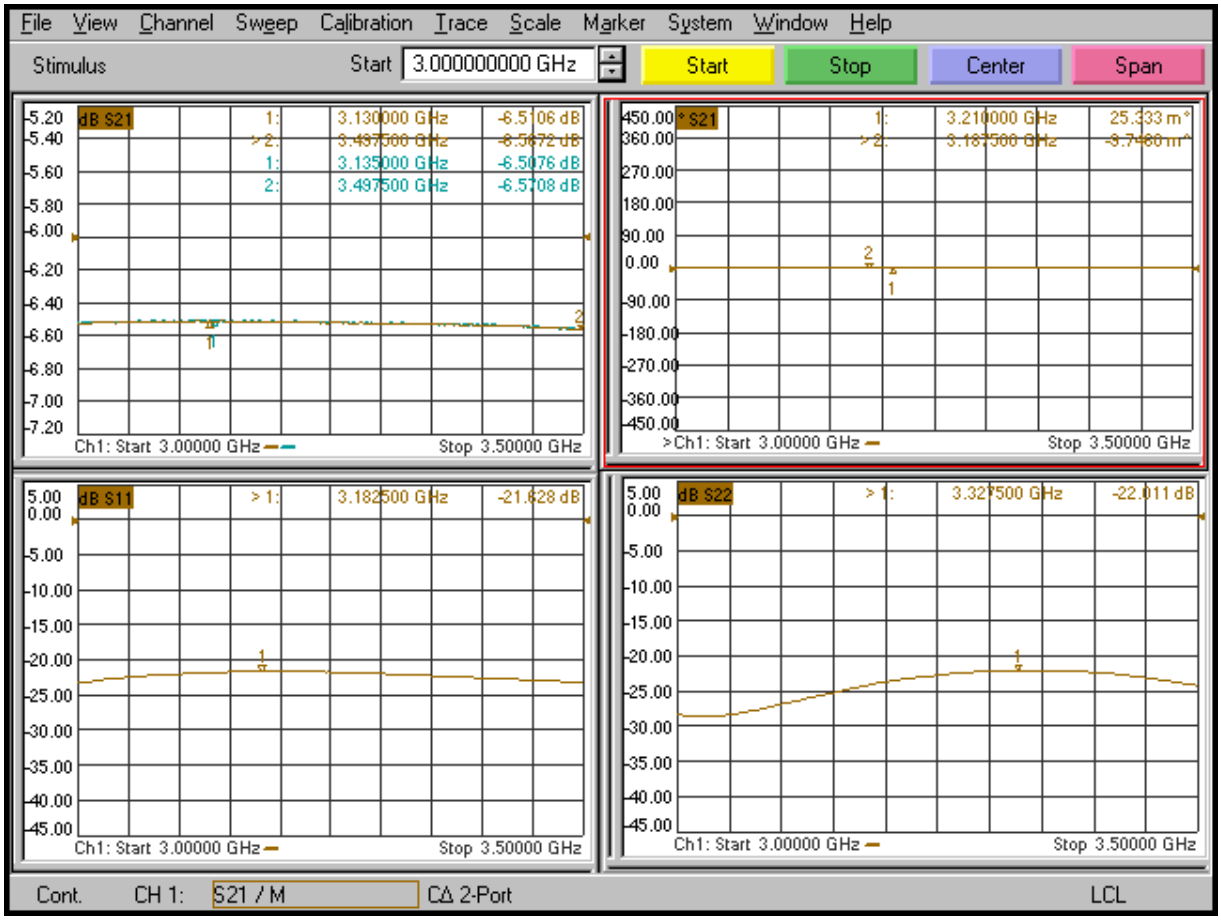
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

B to ELΔ
(Normalized Phase)



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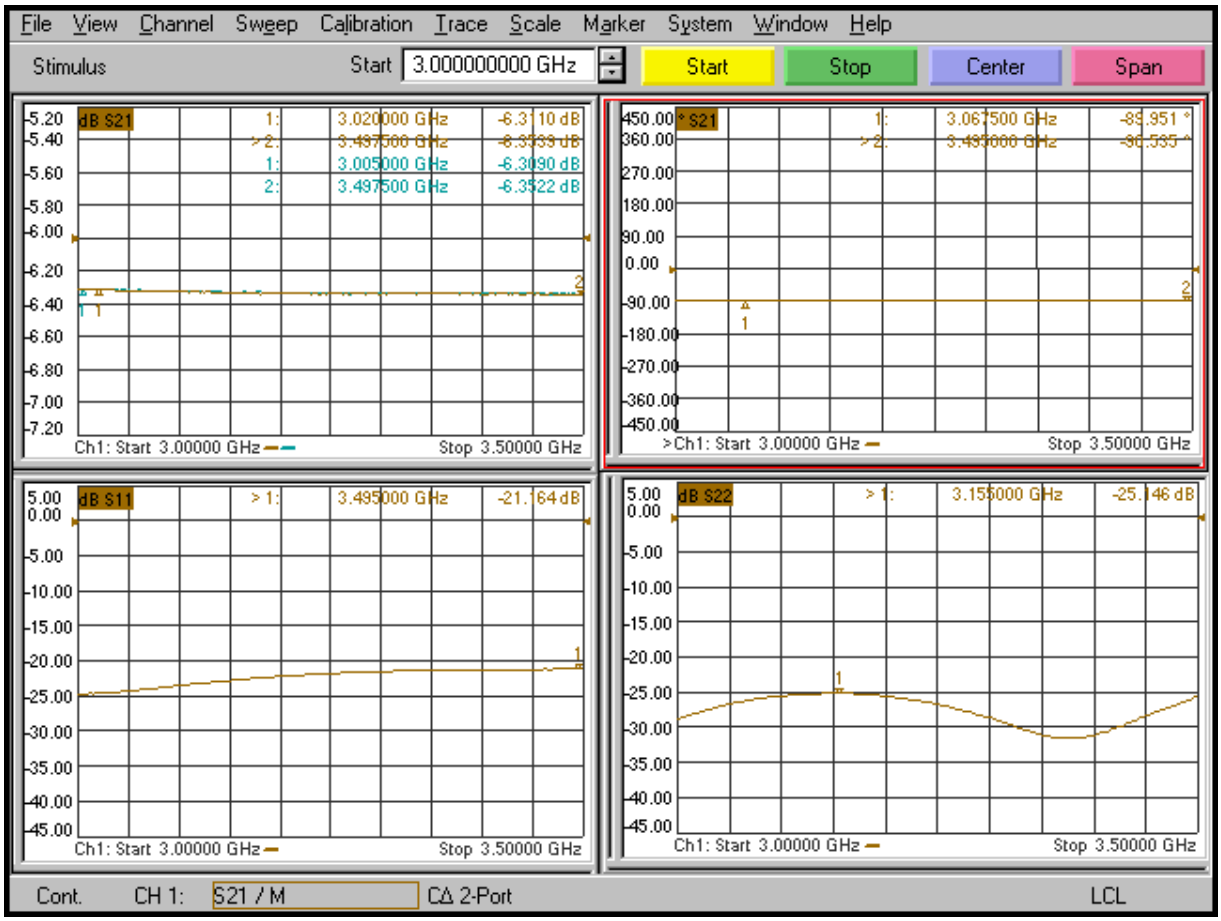
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

B to AZ∑



7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

B to ΔQ

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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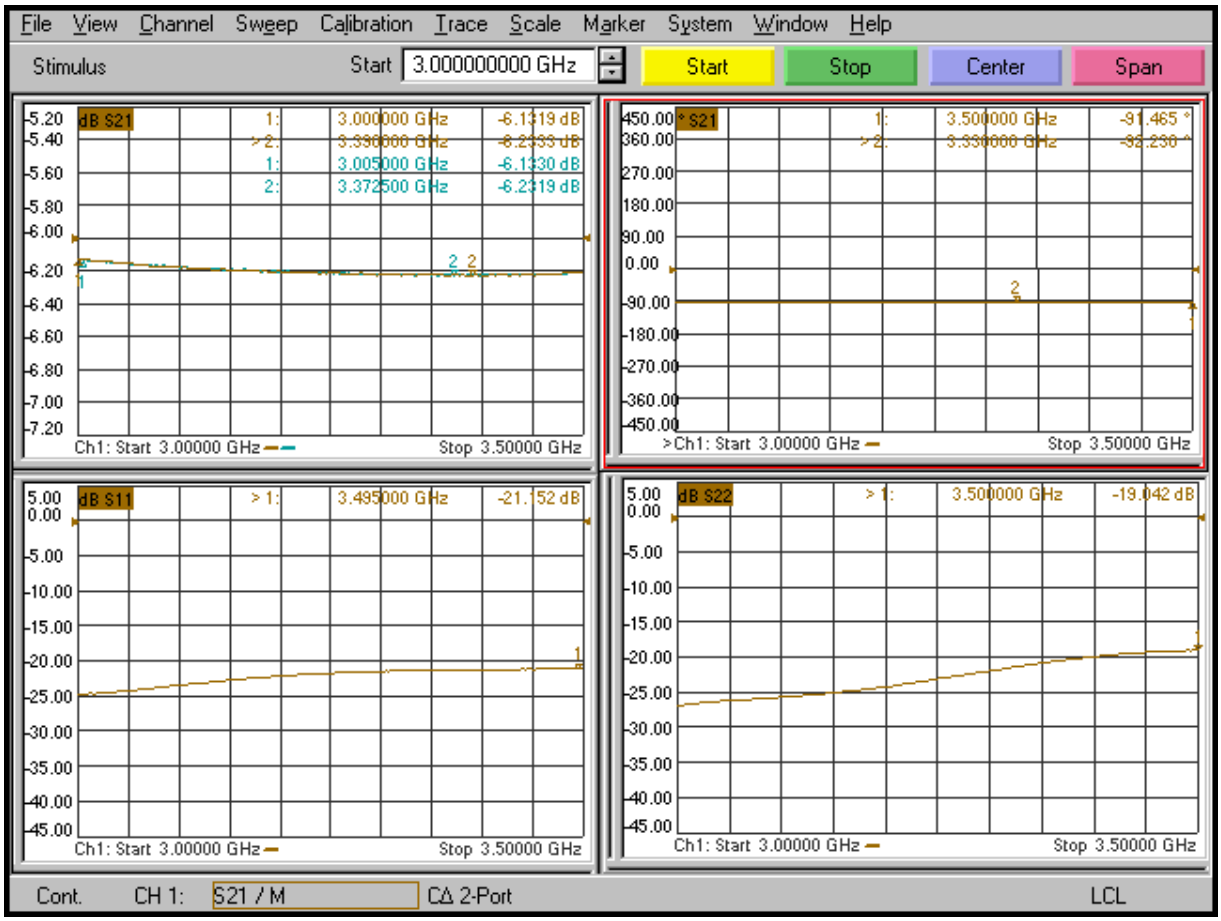
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

B to AZΔ



7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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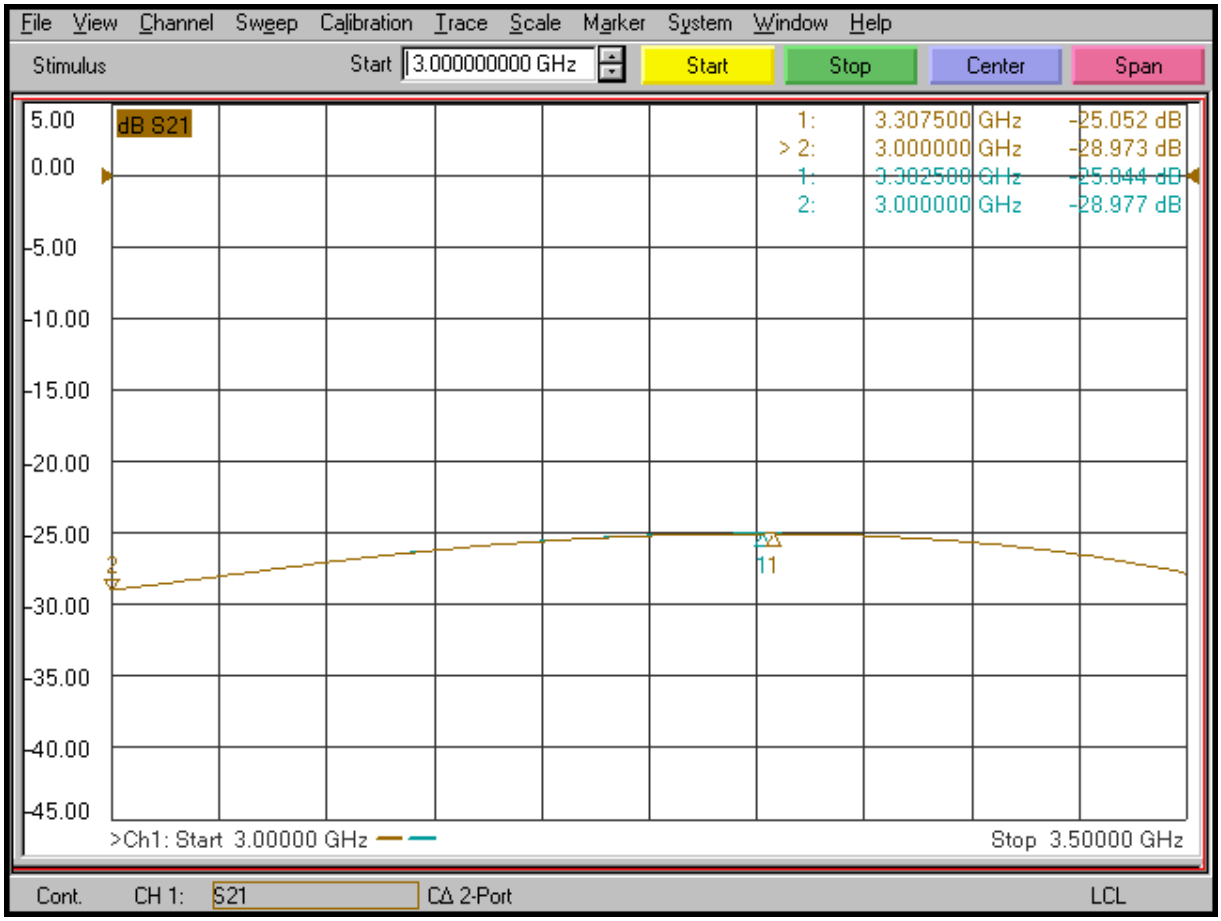
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

B to A Isolation



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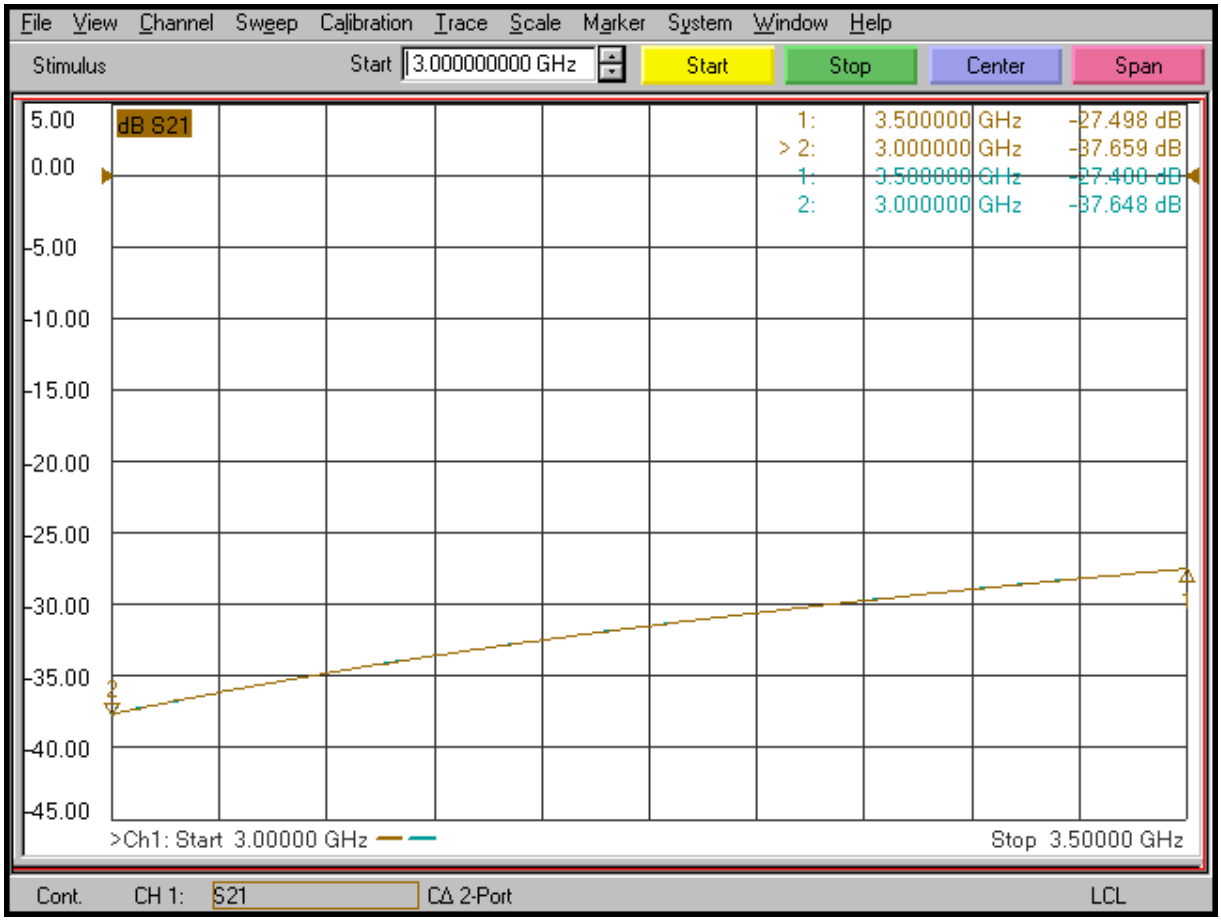
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

B to C Isolation



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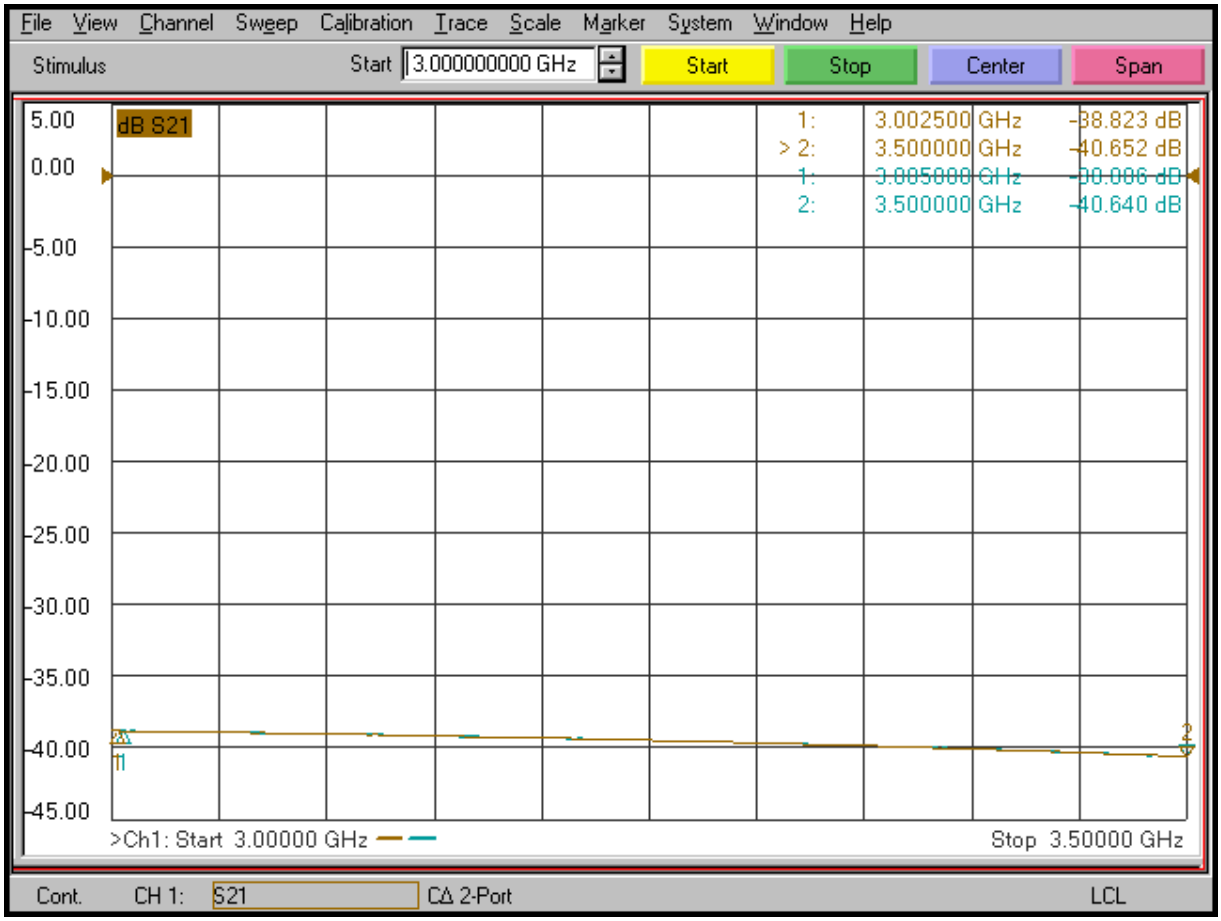
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

B to D Isolation



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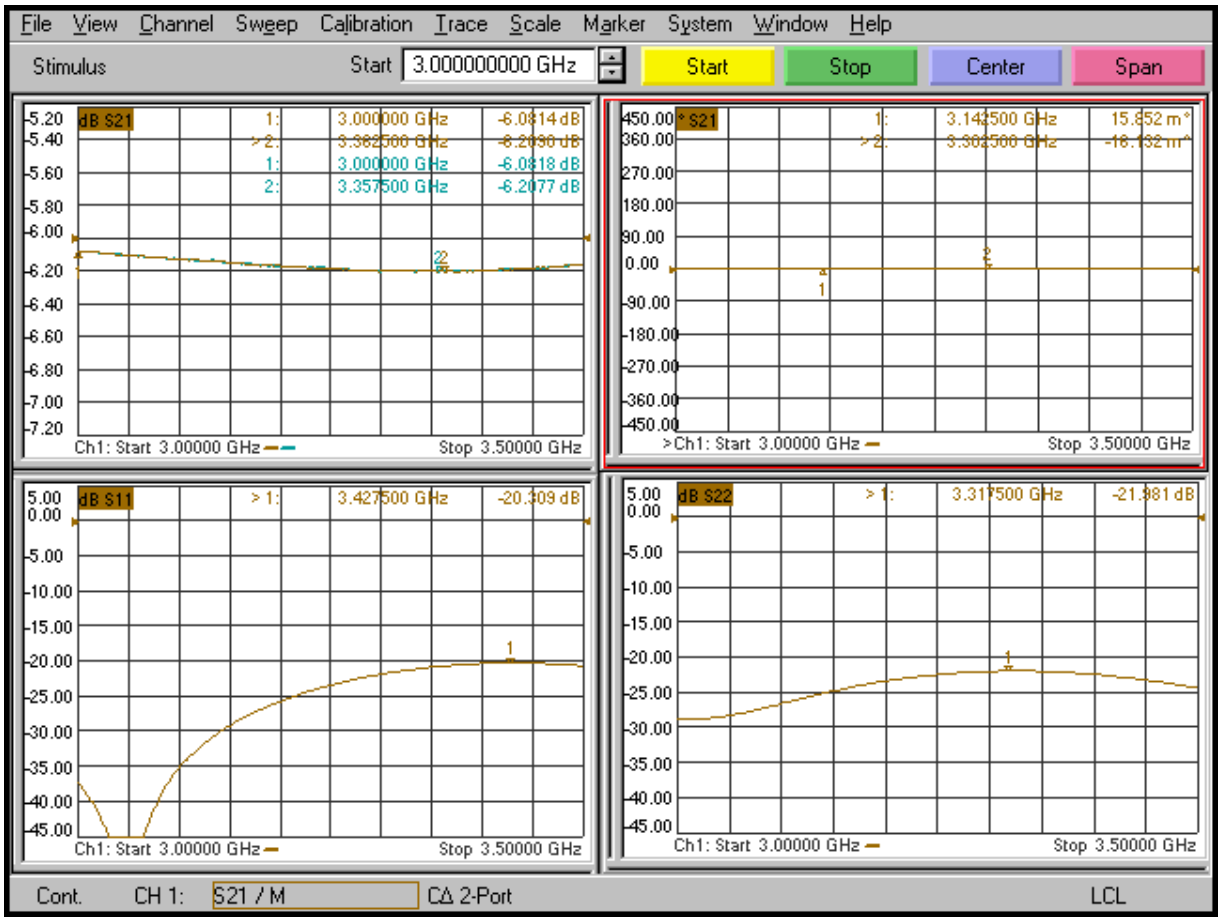
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

C to ELΔ
(Normalized Phase)



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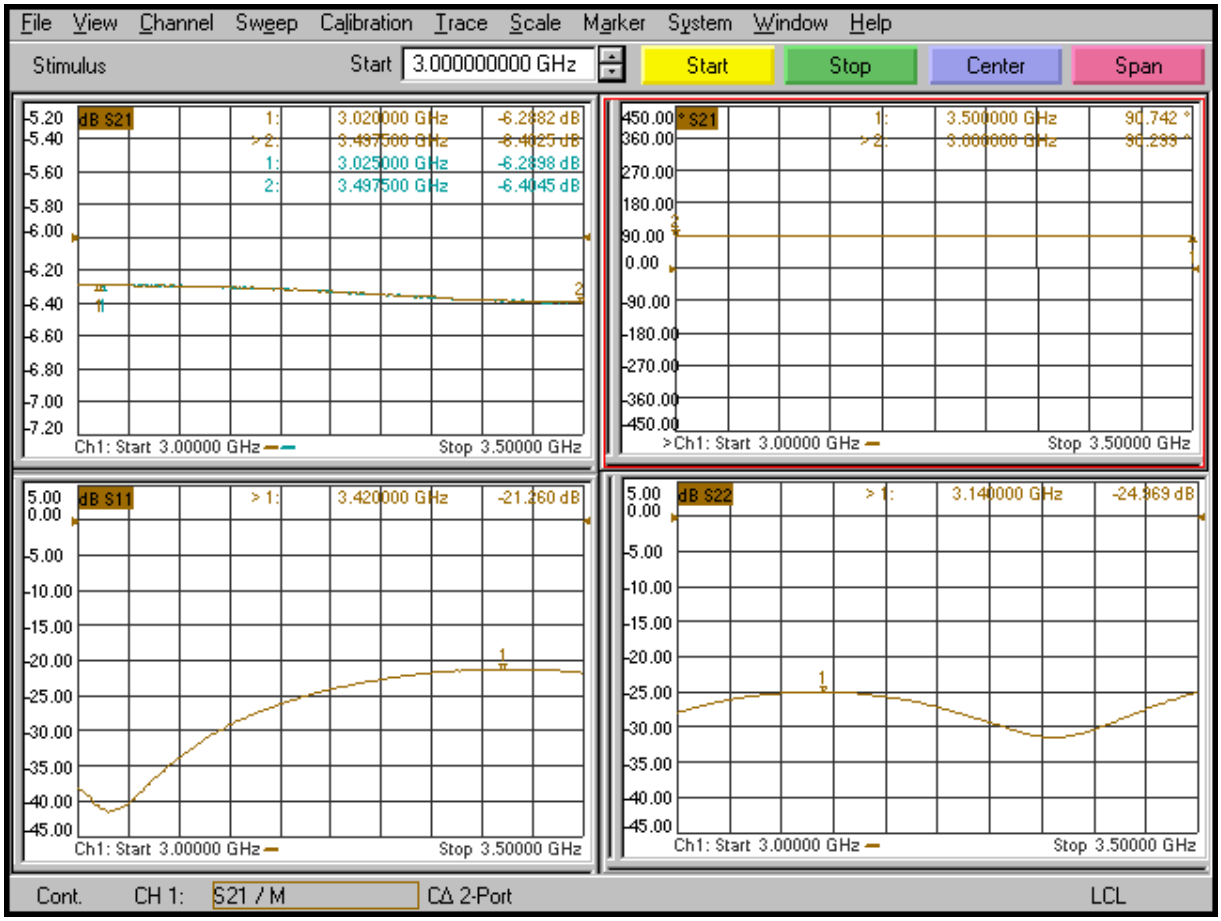
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

C to AZ∑



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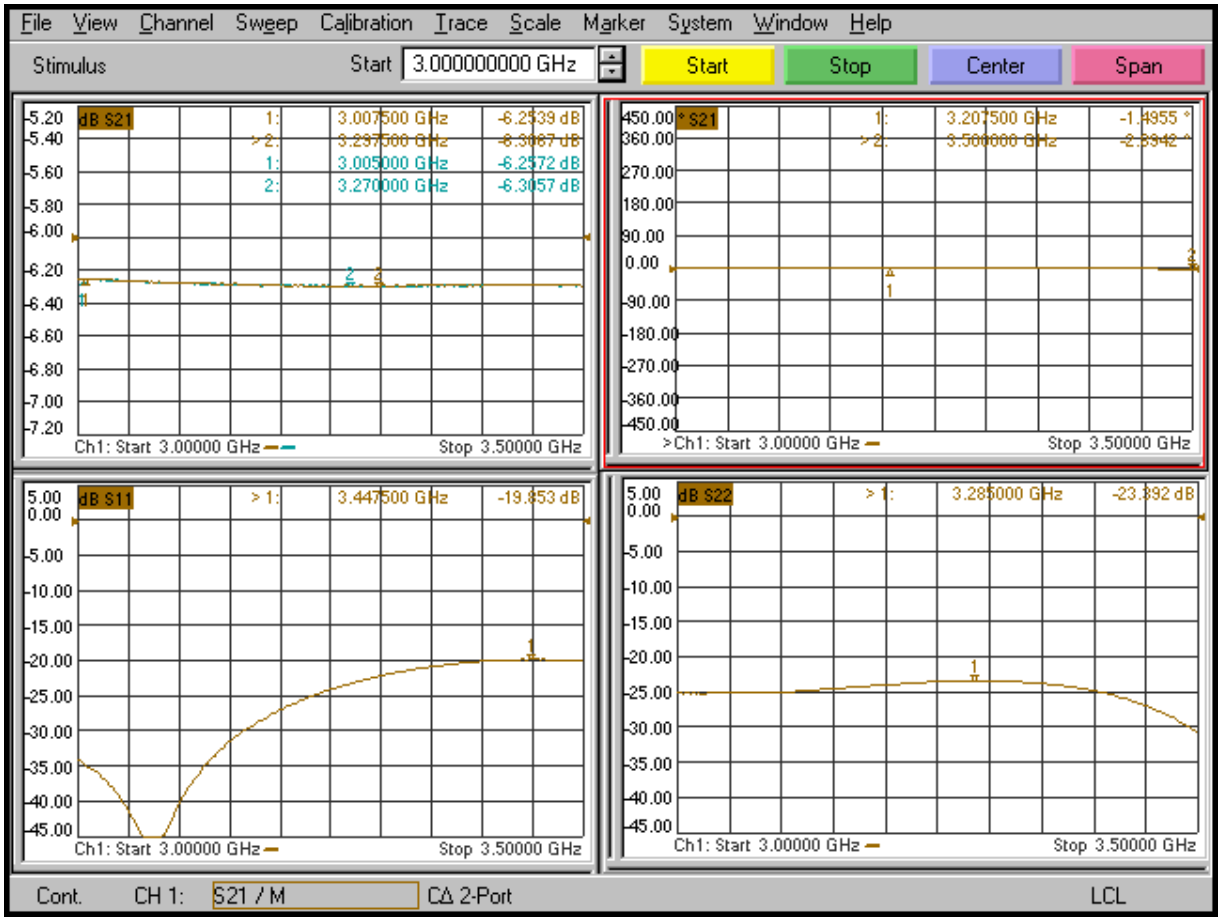
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

C to ΔQ



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ON
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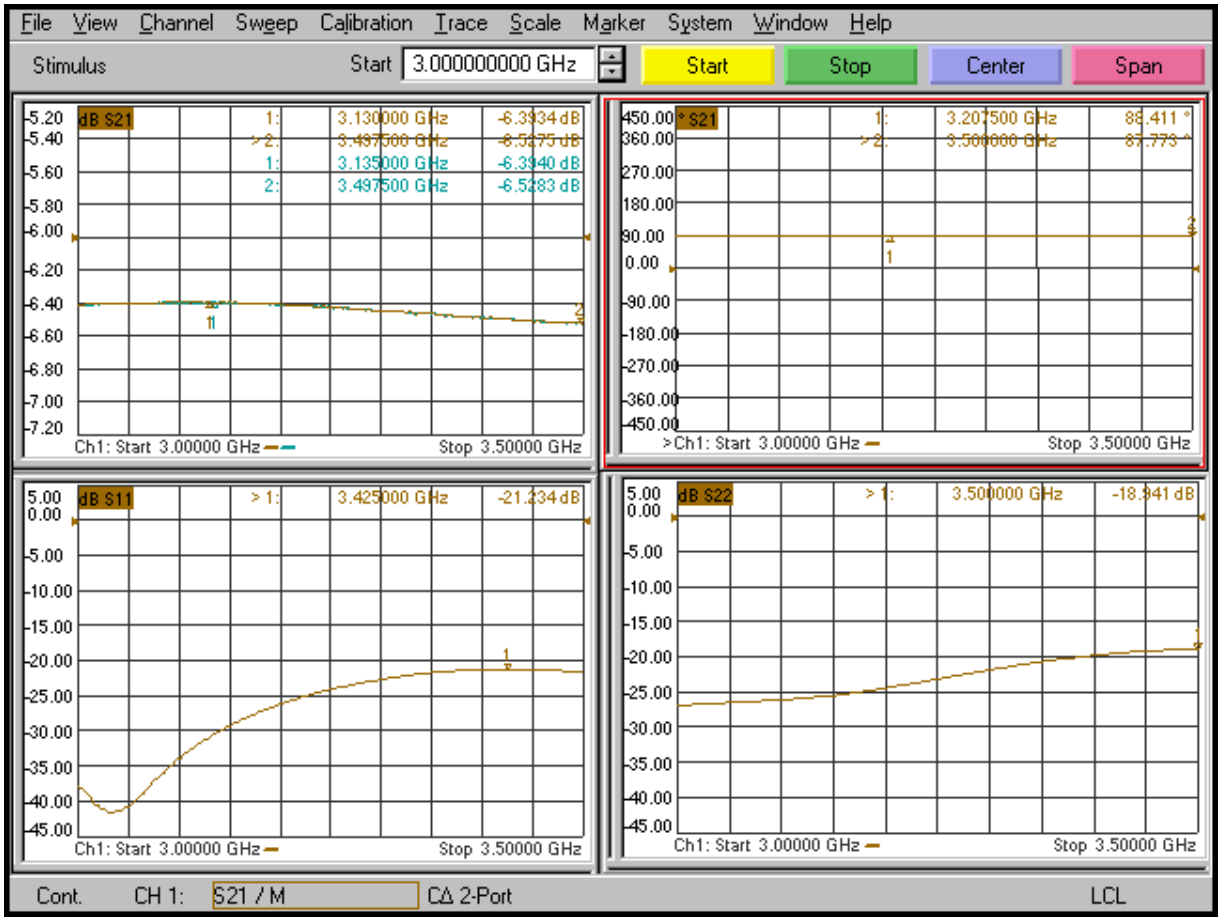
Return Loss (S11& S22)

C to AZΔ



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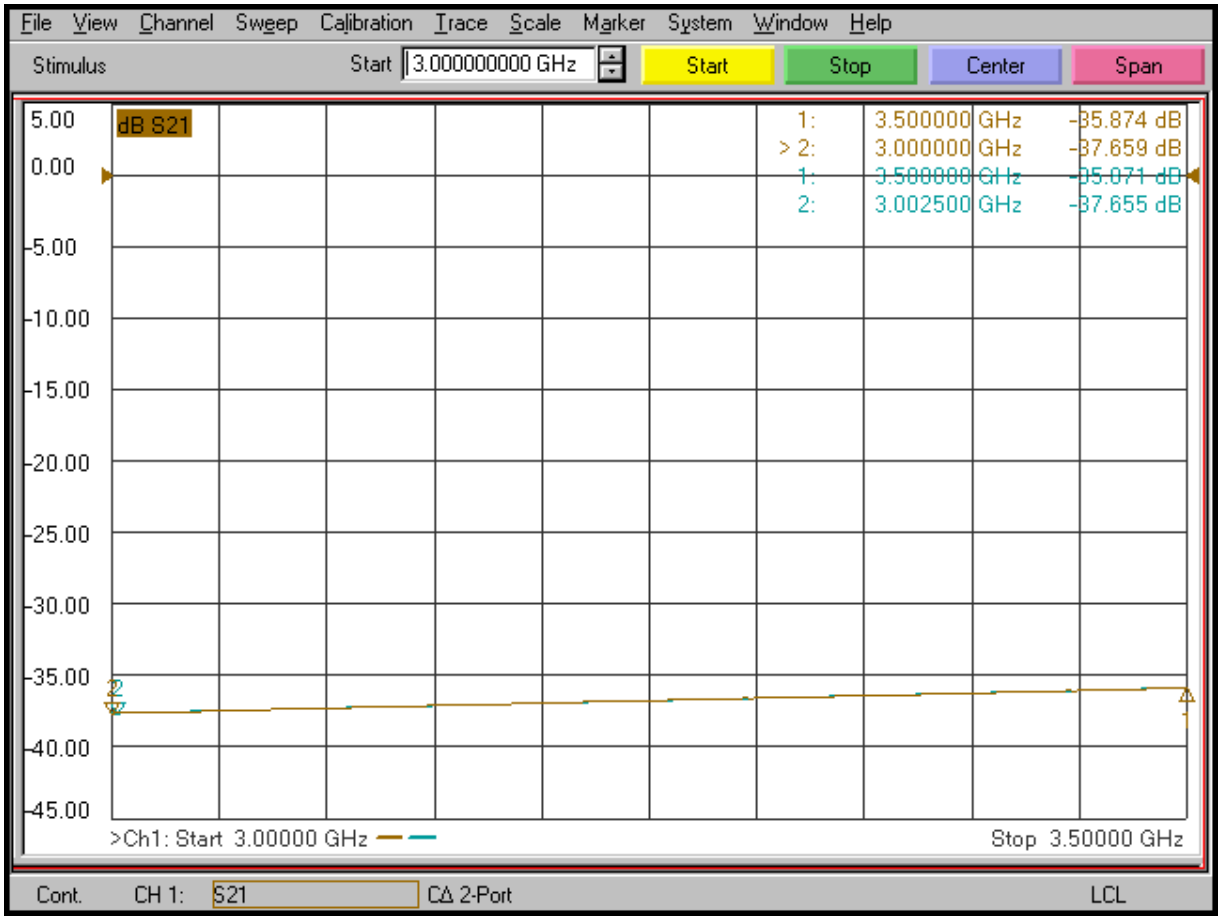
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

C to A Isolation



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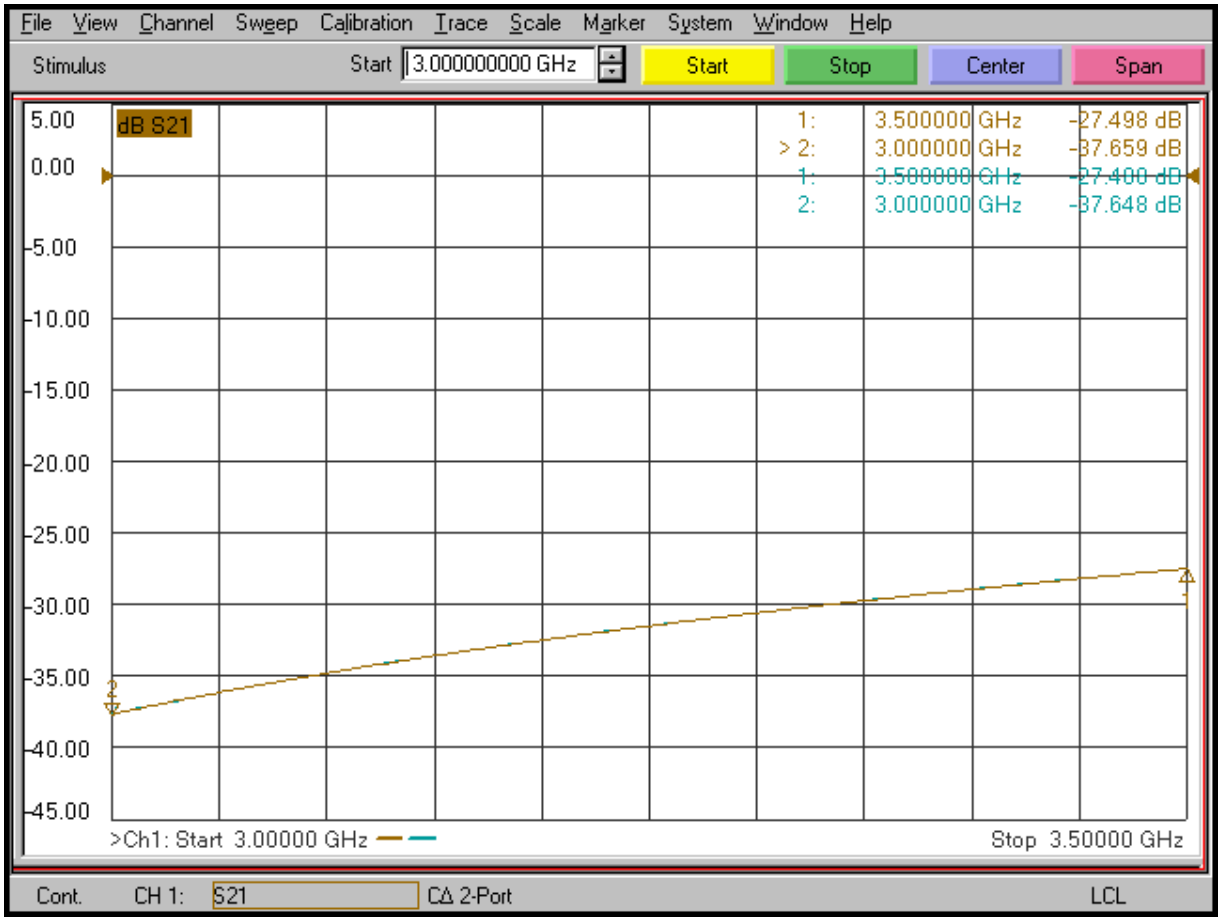
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

C to B Isolation



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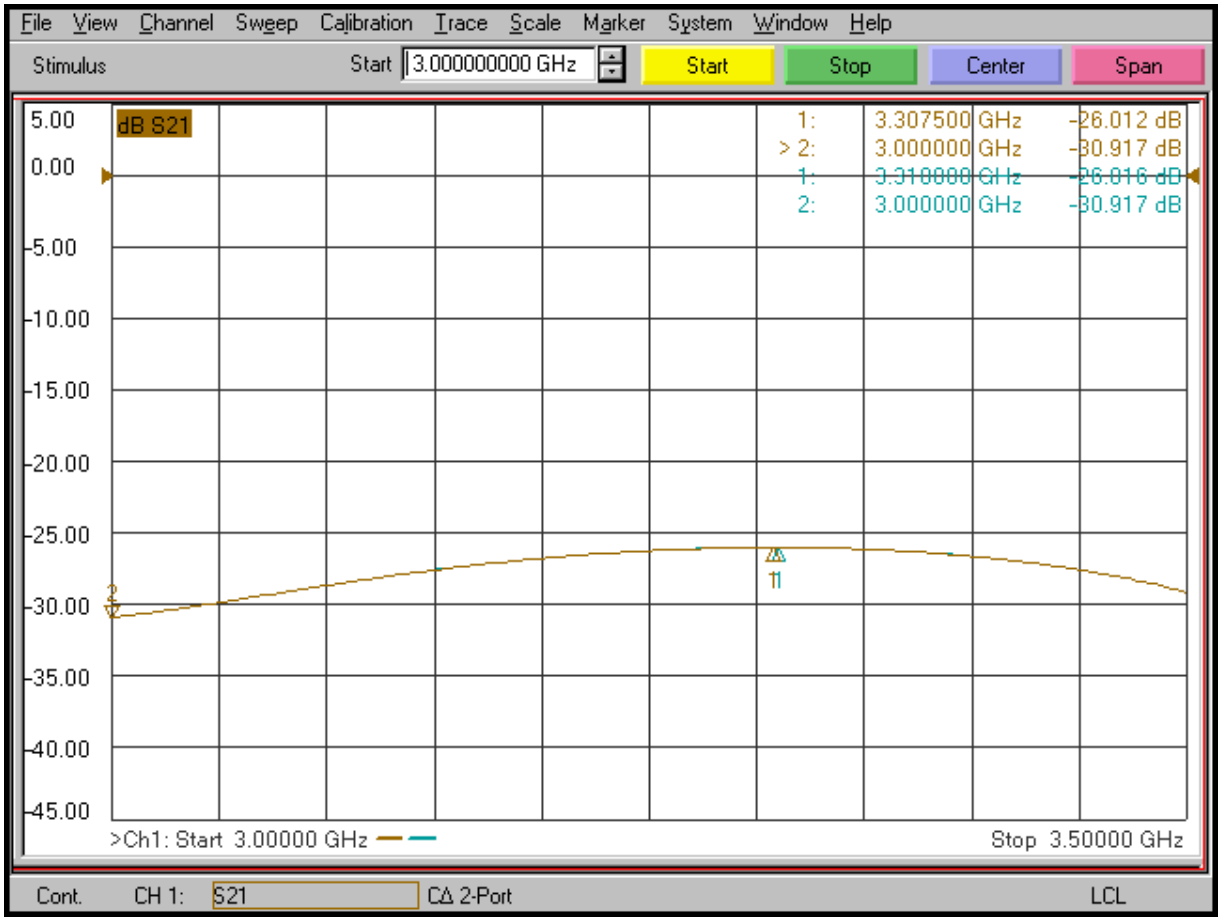
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

C to D Isolation



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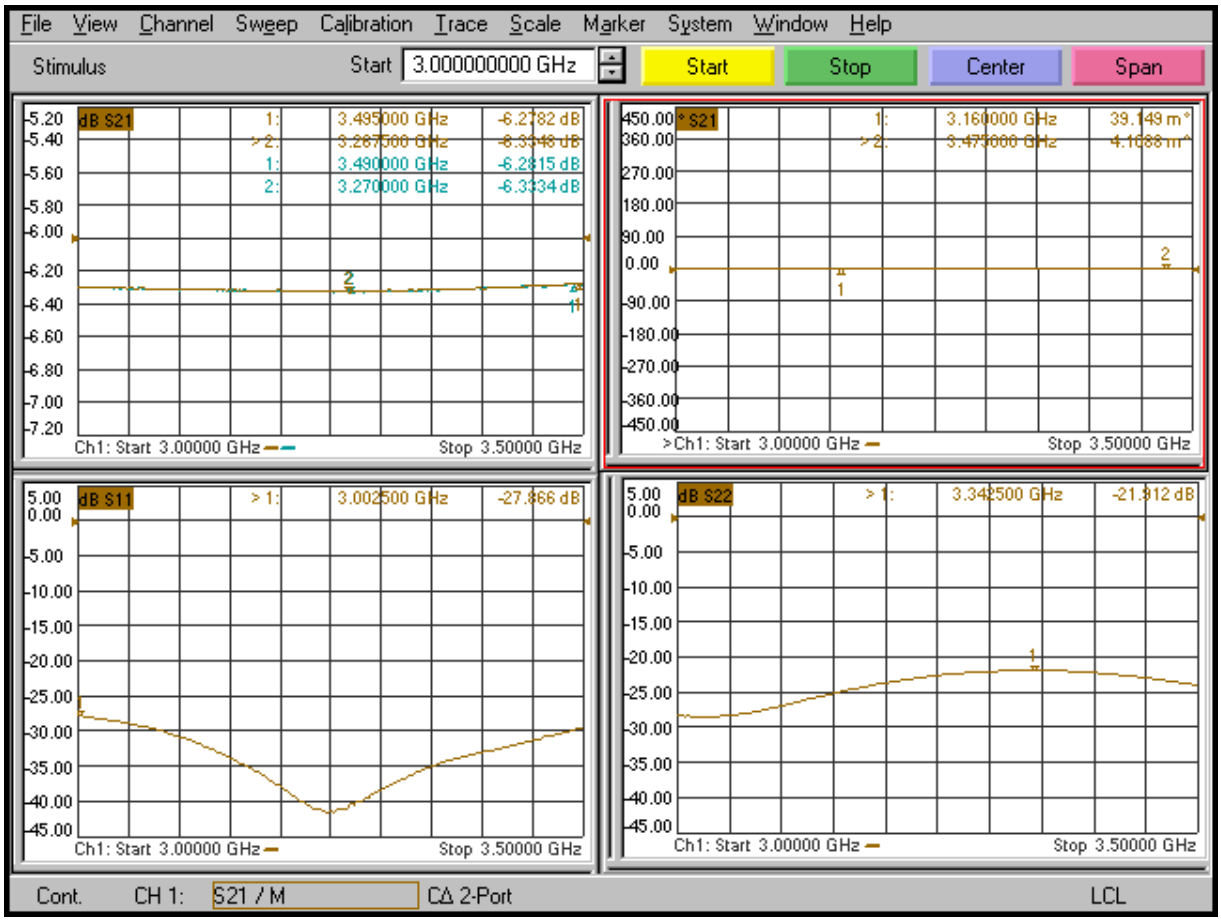
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to ELΔ
(Normalized Phase)



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TYPICAL CHARACTERISTICS
ON
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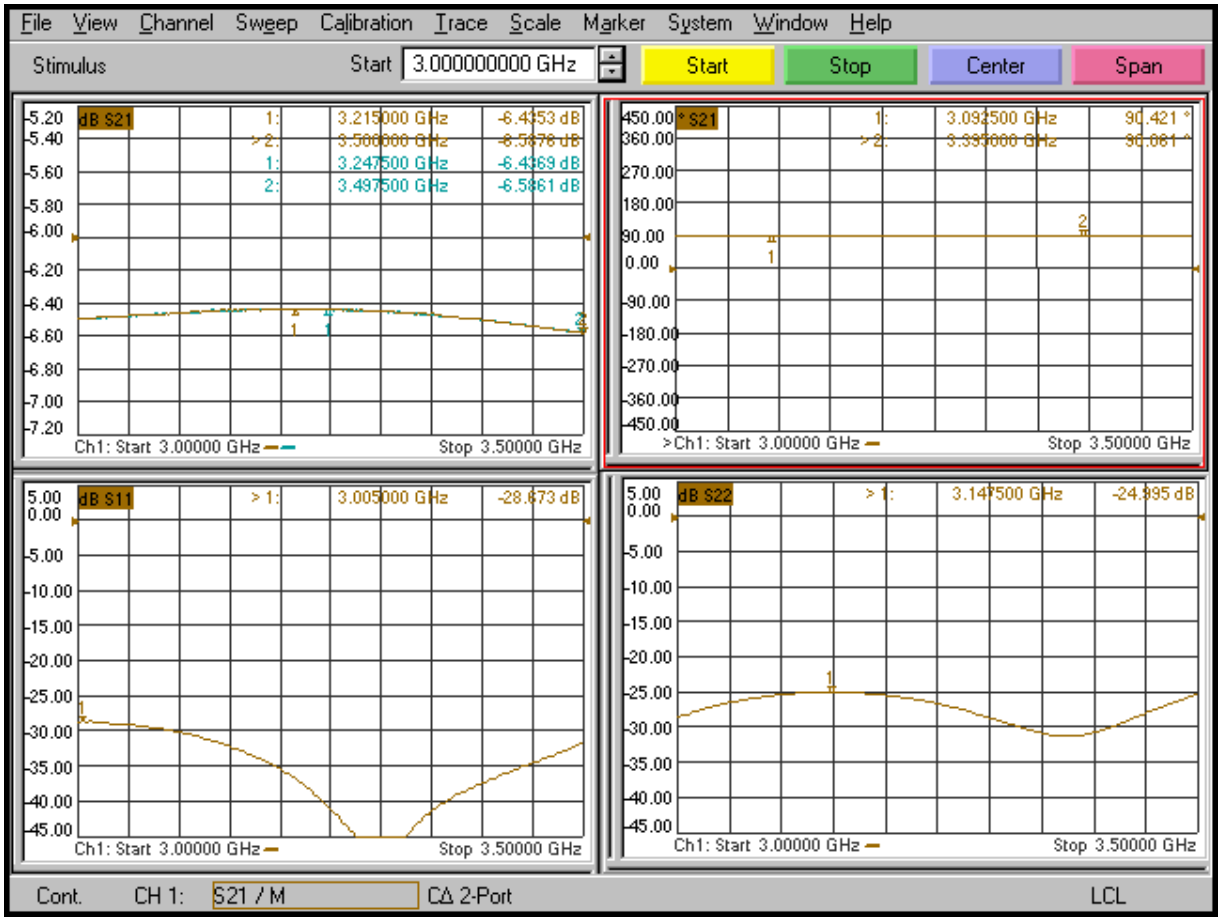
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to AZ∑



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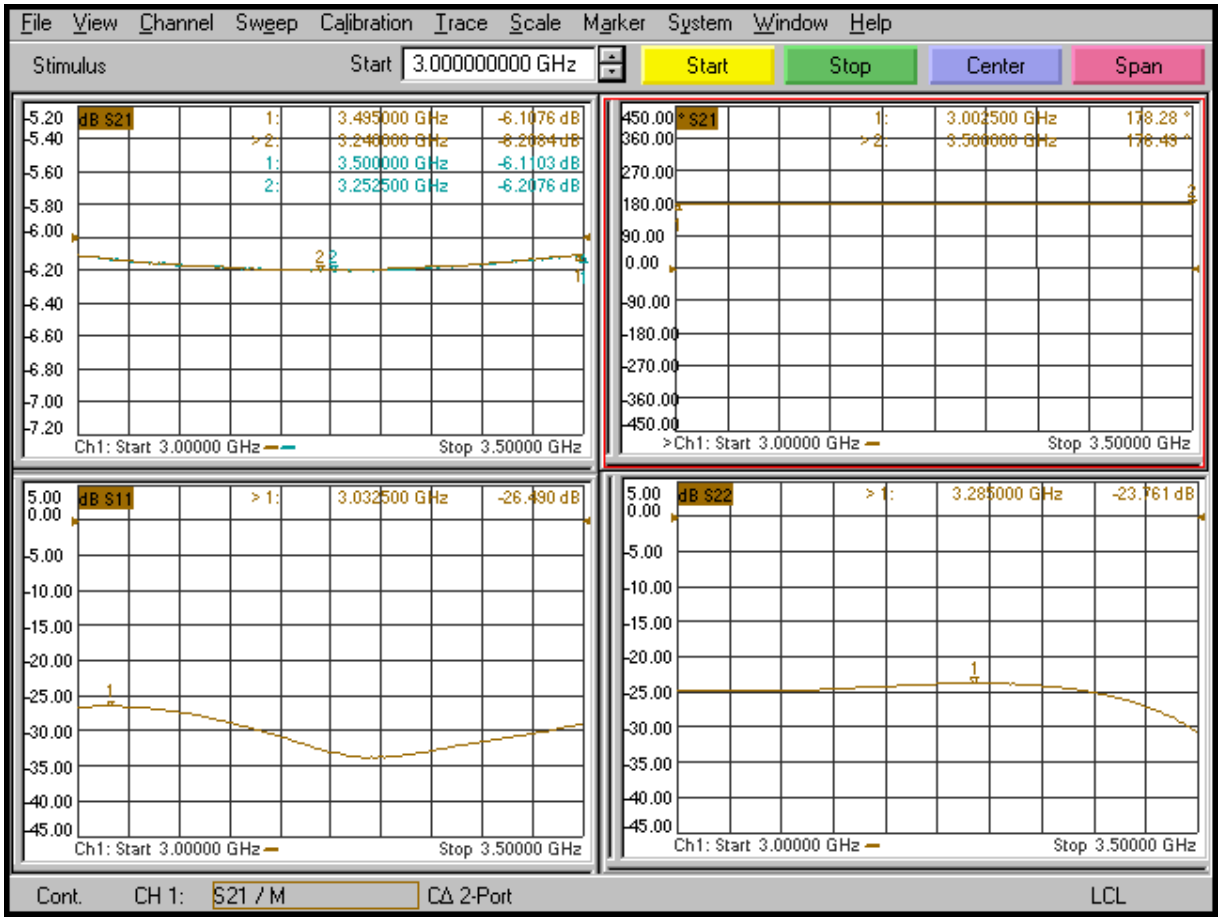
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to ΔQ



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TYPICAL CHARACTERISTICS
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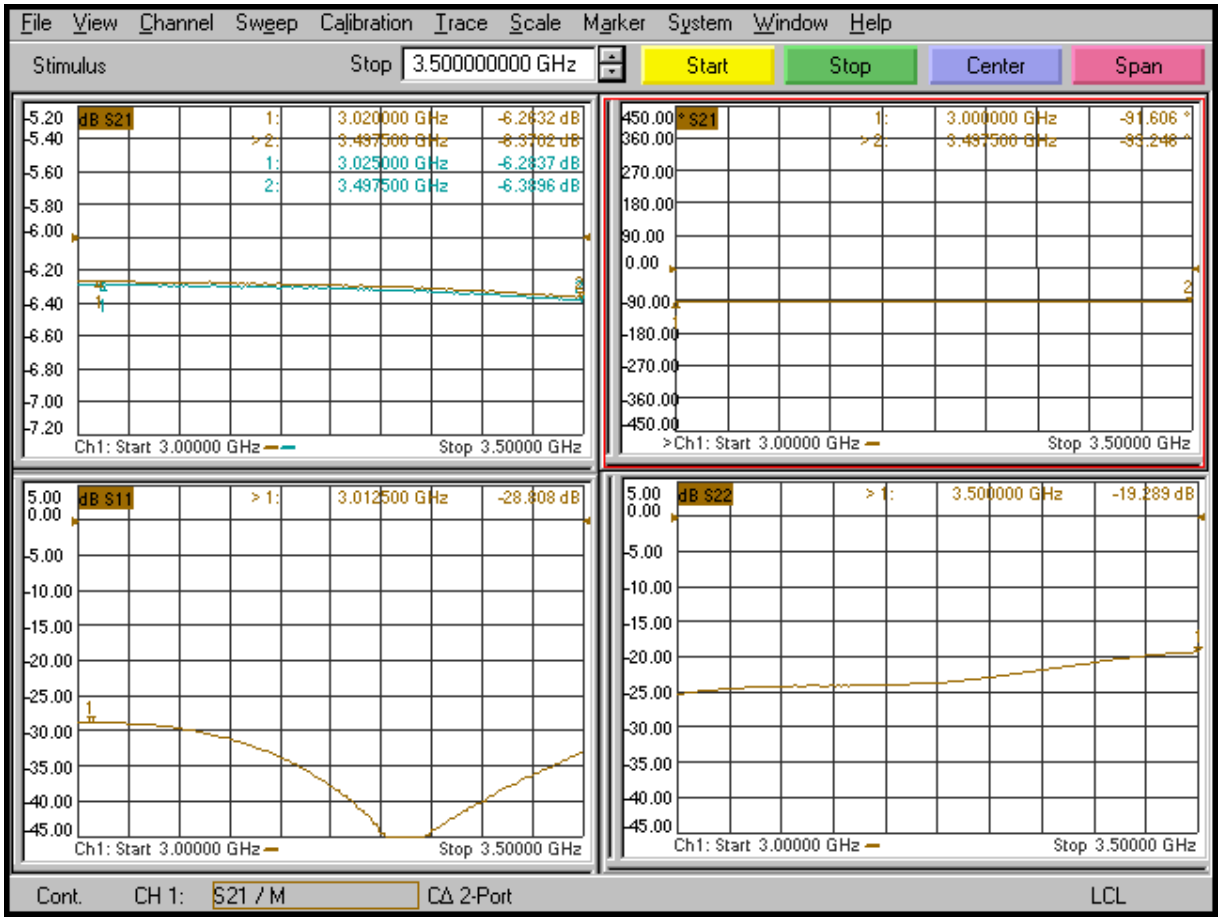
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to AZΔ



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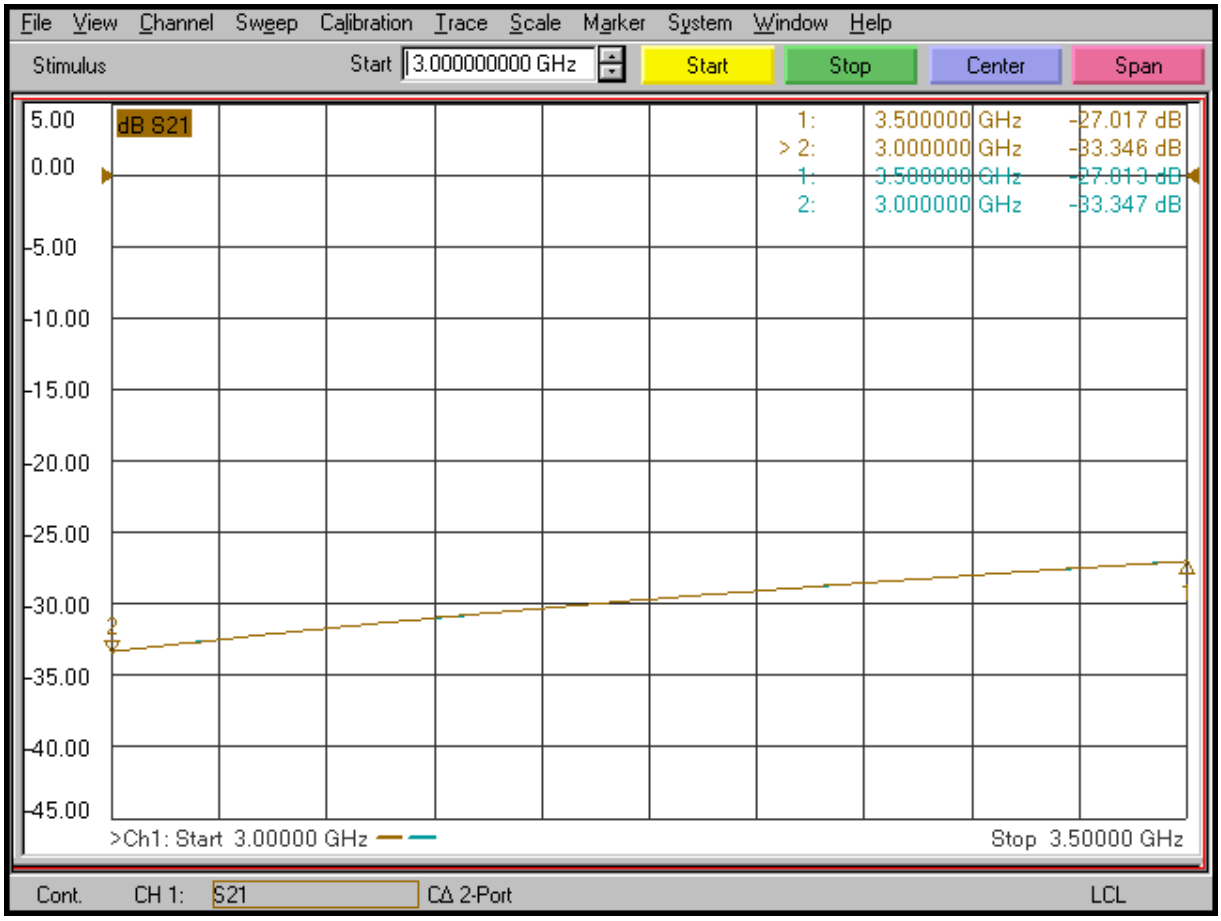
Email: sales@pmi-rf.com

TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

D to A Isolation



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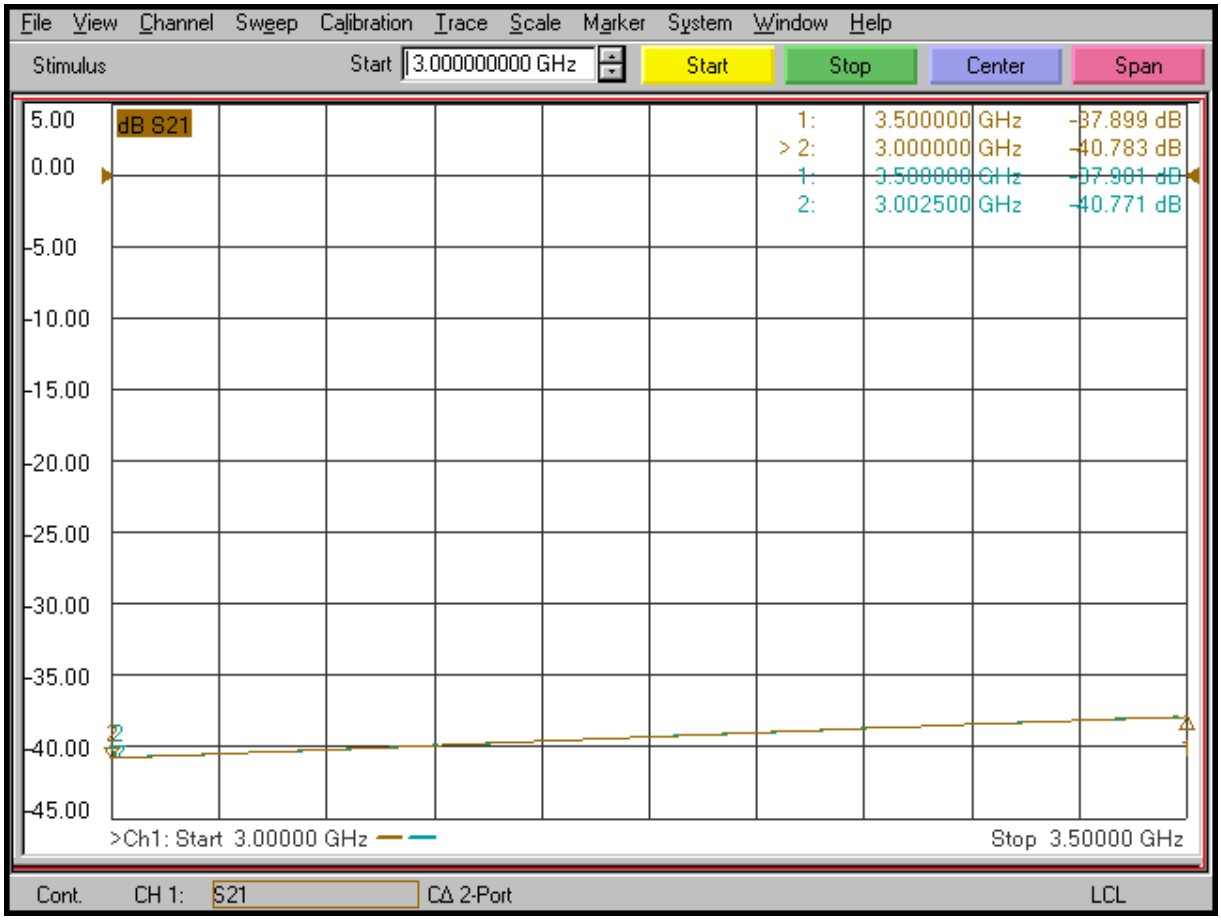
Email: sales@pmi-rf.com

TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

D to B Isolation



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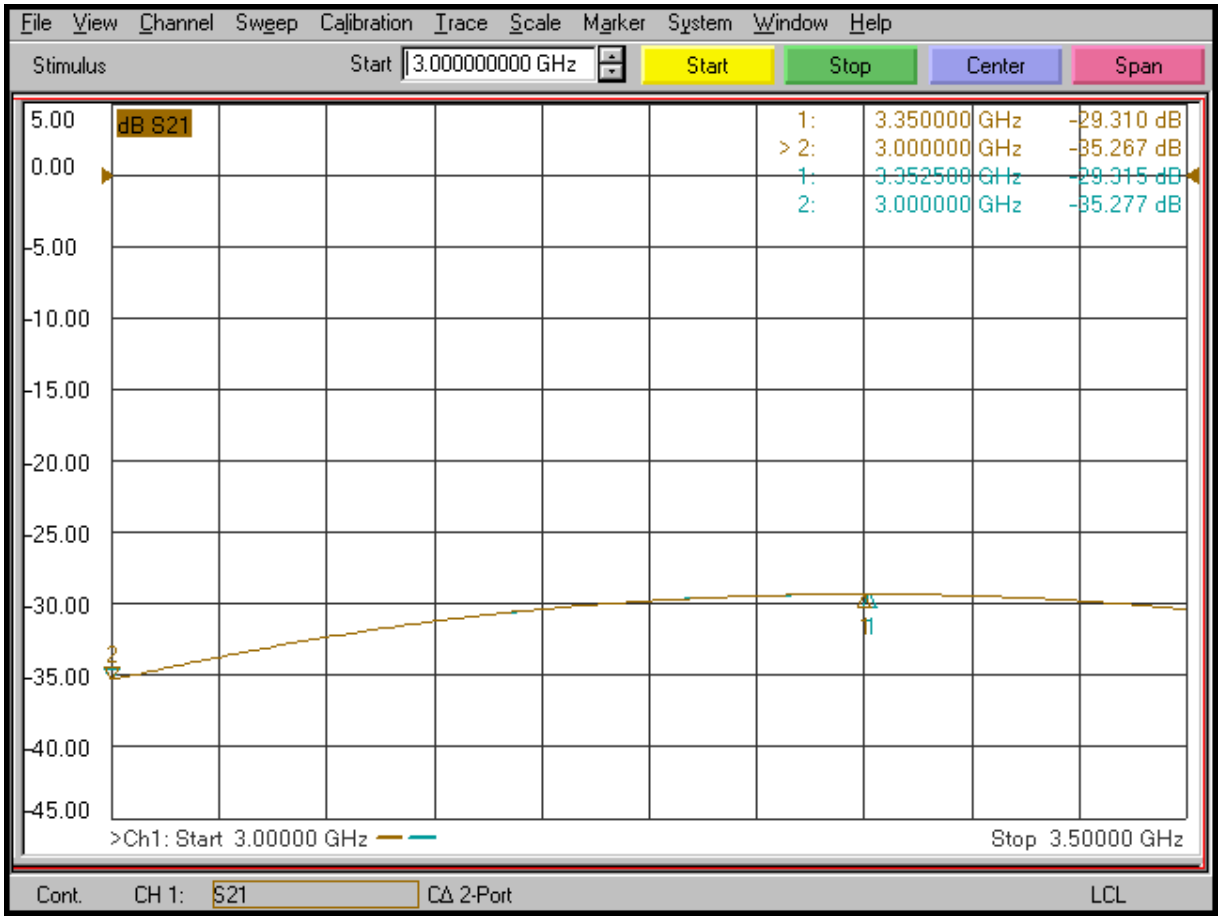
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

D to C Isolation



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EXTENDED DATA

3.0 TO 3.7 GHz

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Email: sales@pmi-rf.com

TYPICAL CHARACTERISTICS ON PMC-3G3D5G-6D8-SFF

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	3.0 GHz To 3.7 GHz	**3.0 GHz to 3.7 GHz See Plots**	
2	Insertion Loss:	0.8 dB Typ. (If input signals at ports A, B, C and D are equal Amplitude or Power & Inphase with an output at Port AZΣ)	**0.4dB Max See Page 4**	
3	Insertion Loss:	6.8 dB MAXIMUM (If input signals at port A, B, C or D and all other ports are terminated to 50 Ohms with an output at ports ELΔ, AZΣ, AQ or AZΔ)	**6.31 dB Min 6.53 dB Max See Plots**	
4	Amplitude Balance:	+/-0.5 dB Max	**+/-0.11 dB See Plots**	
5	Phase Balance:	+/-7 Degrees	**+2.5 / -3.33 Degrees See Plots**	
6	Isolation:	24 dB Min	**26 dB See Plots**	
7	VSWR / Return Loss:	1.3:1 Max	**1.18:1 See Plots**	
8	Power Handling:	Average 11W Max (Ports A, B, C & D) Peak 0.1kW Max	**Average 11W Max (Ports A, B, C & D) Peak 0.1kW Max See Page 4**	
9	Weight:	10 oz	**8 oz**	

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TYPICAL CHARACTERISTICS
ON
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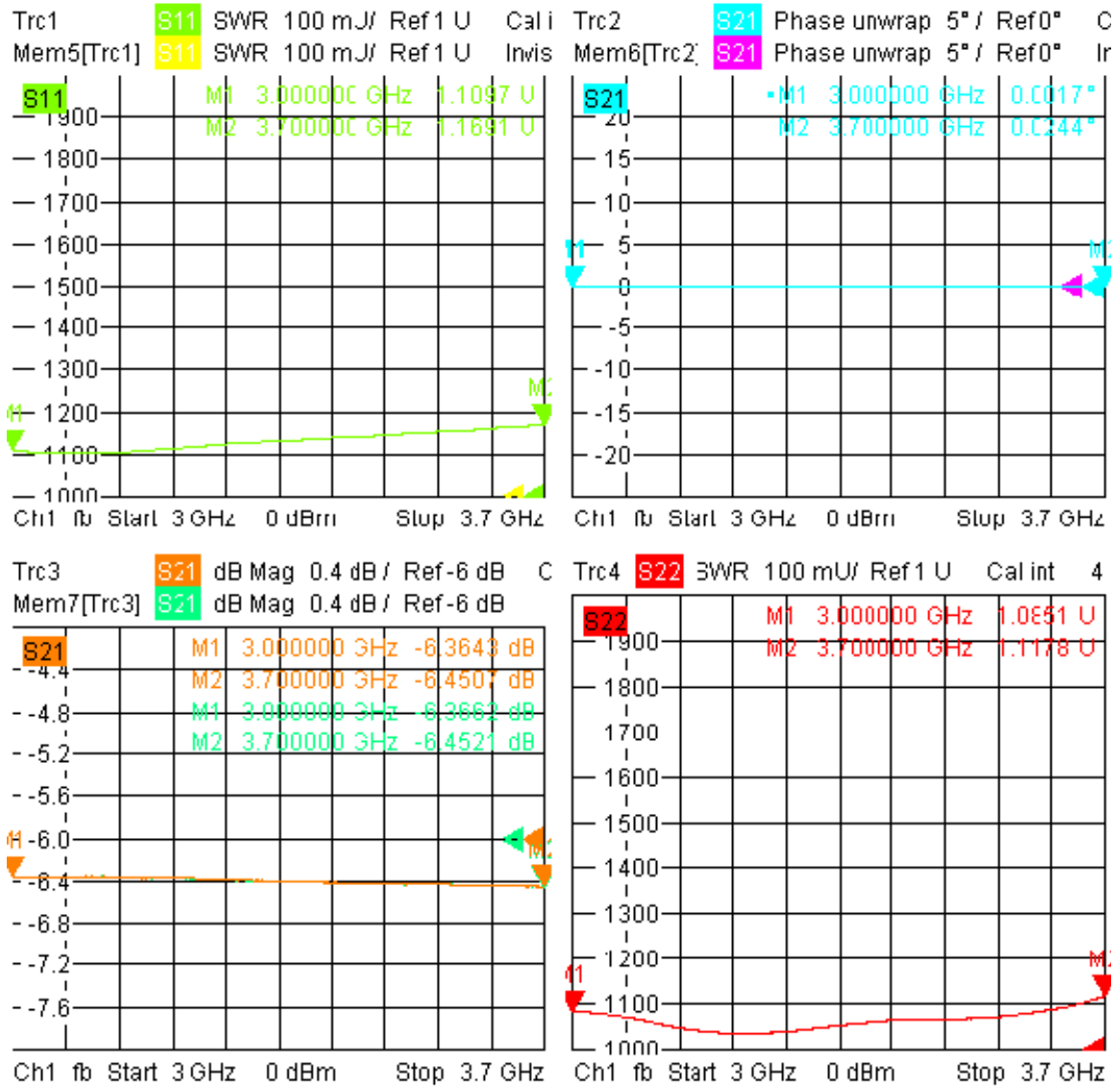
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to EL∆
(Normalized Phase)



9/21/2019, 7:37 AM

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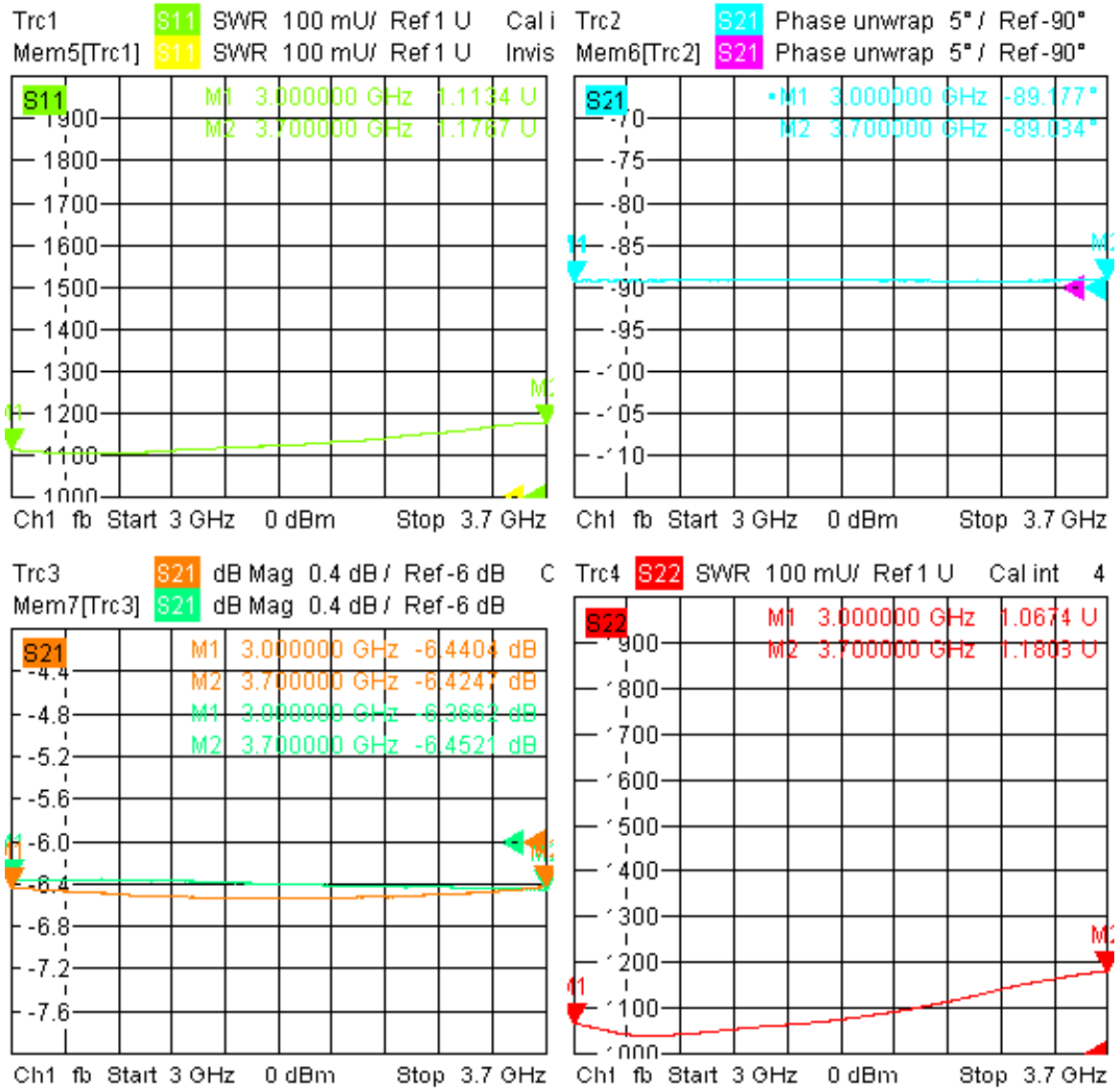
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to AZ∑



9/21/2019, 7:37 AM

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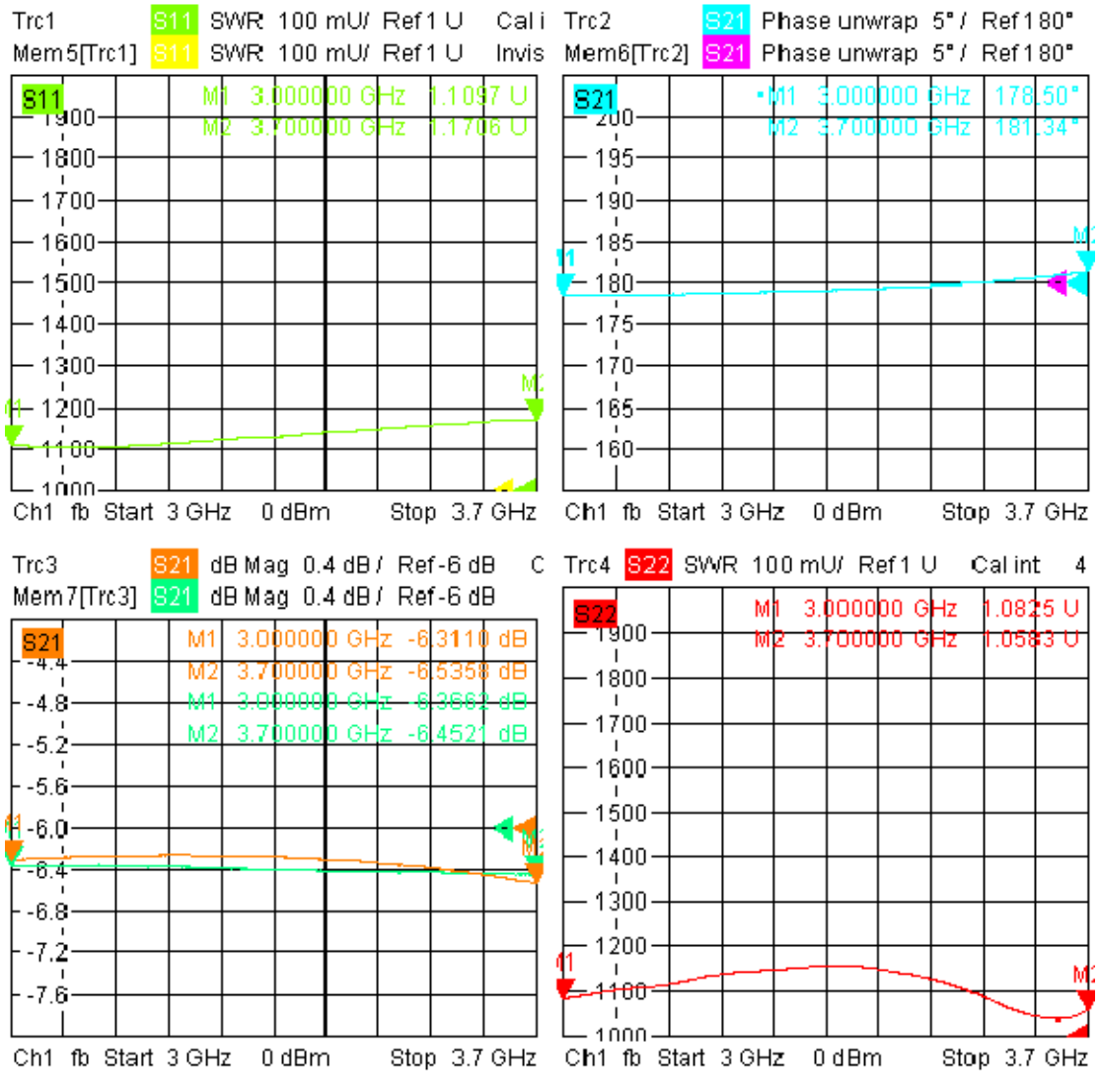
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to ΔQ



9/21/2019, 7:38 AM

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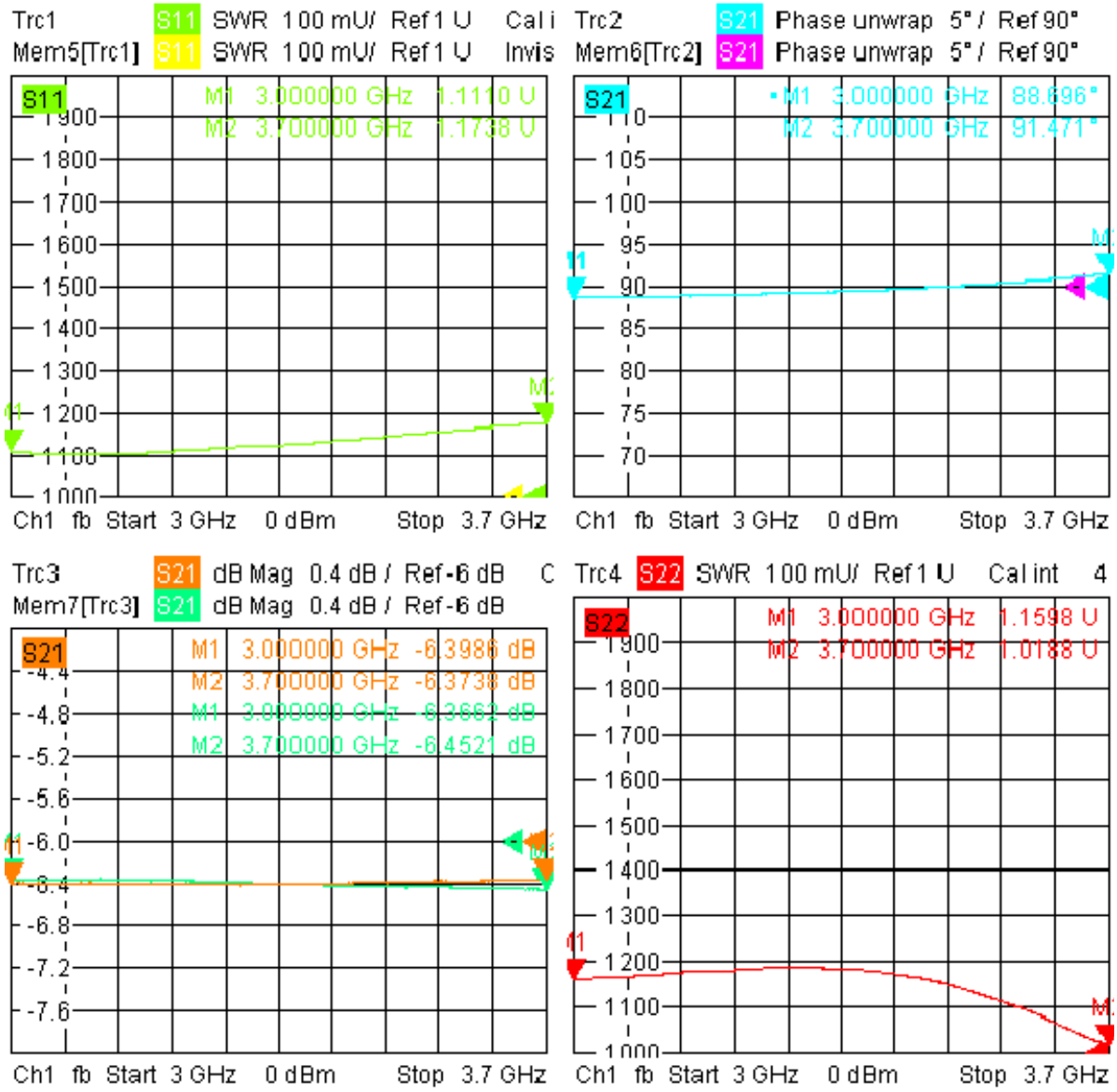
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

A to AZΔ



9/21/2019, 7:38 AM

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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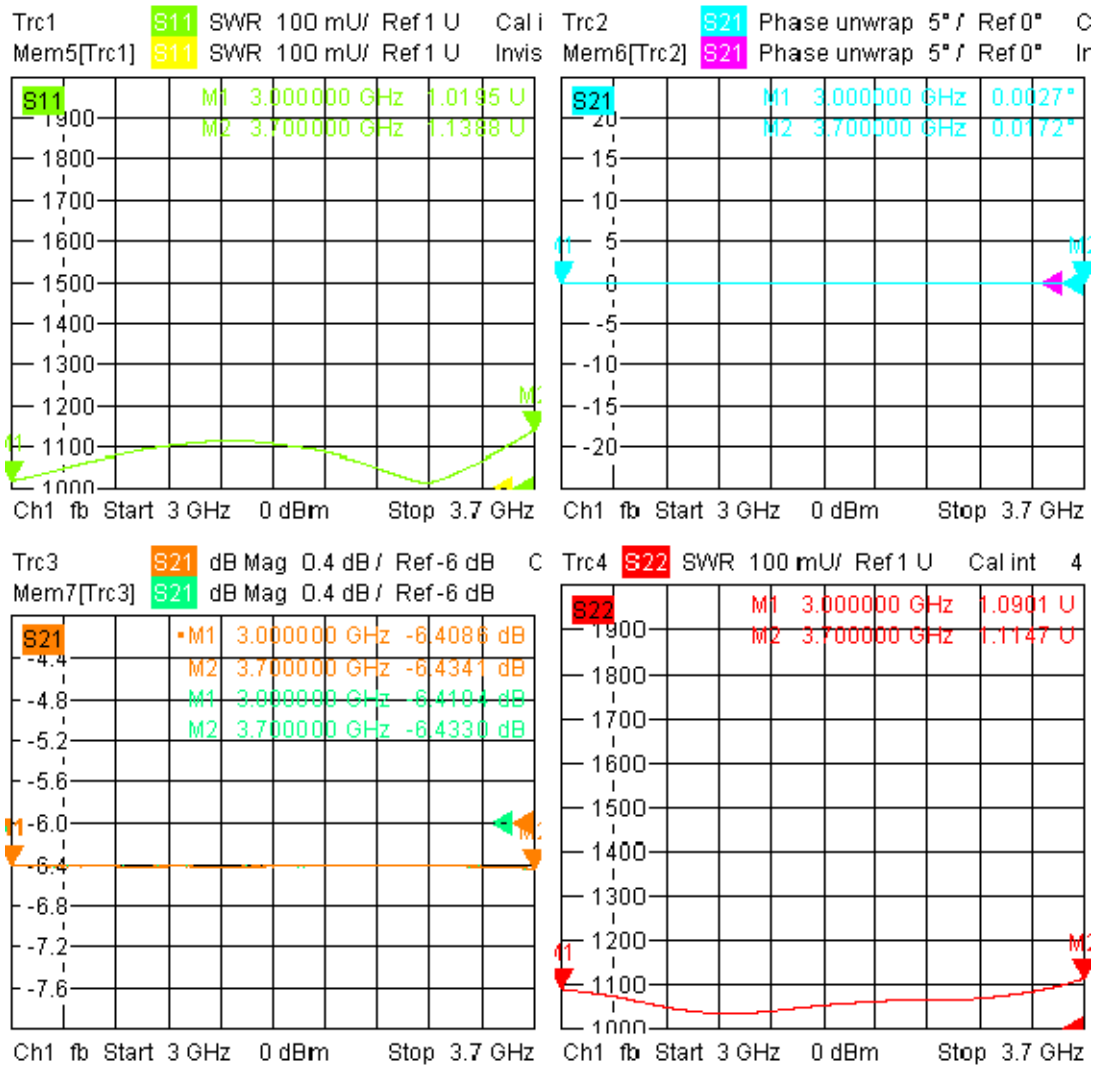
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to ELΔ
(Normalized Phase)



9/21/2019, 7:39 AM

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TYPICAL CHARACTERISTICS
ON
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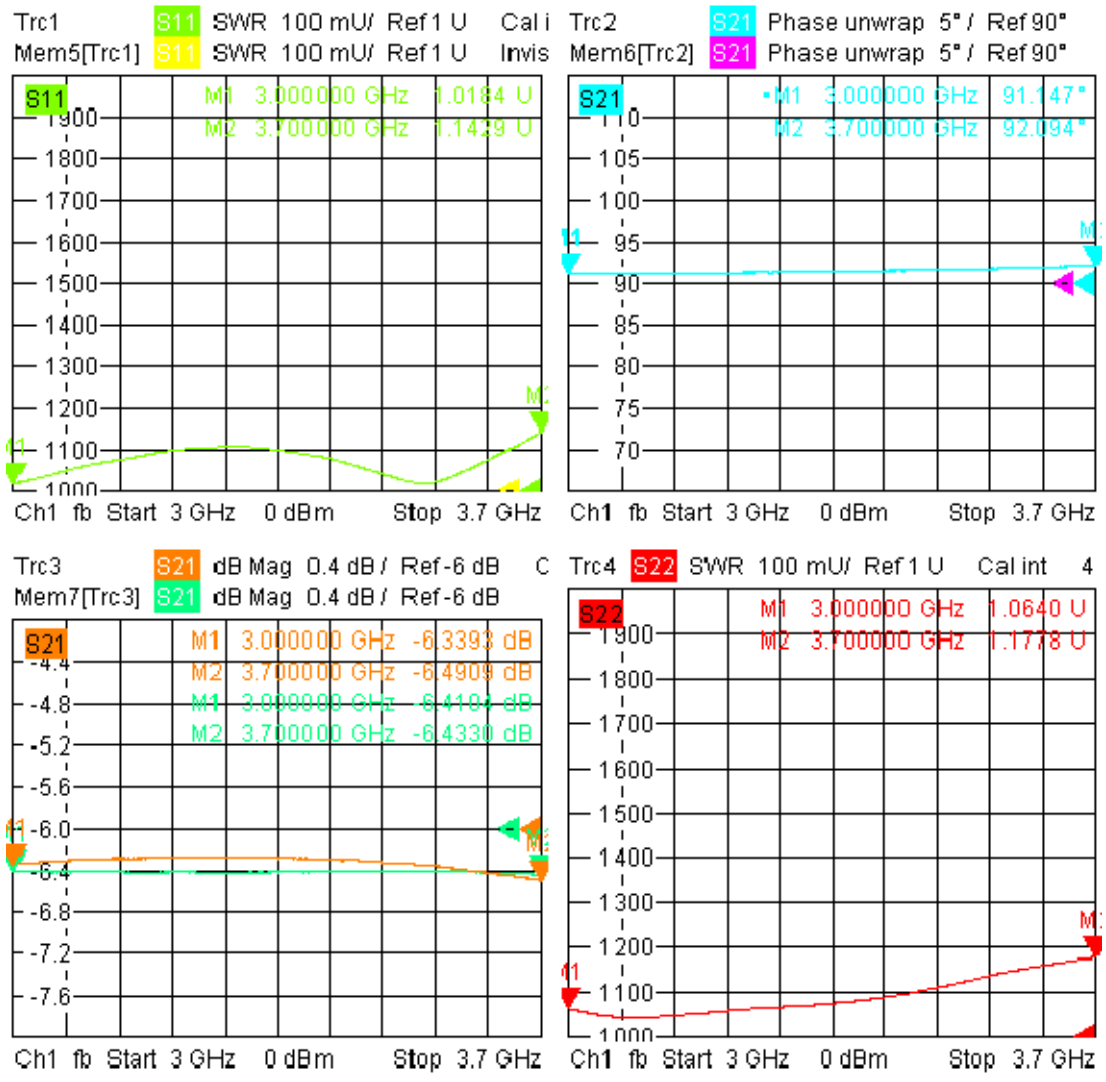
Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to AZ∑



9/21/2019, 7:39 AM

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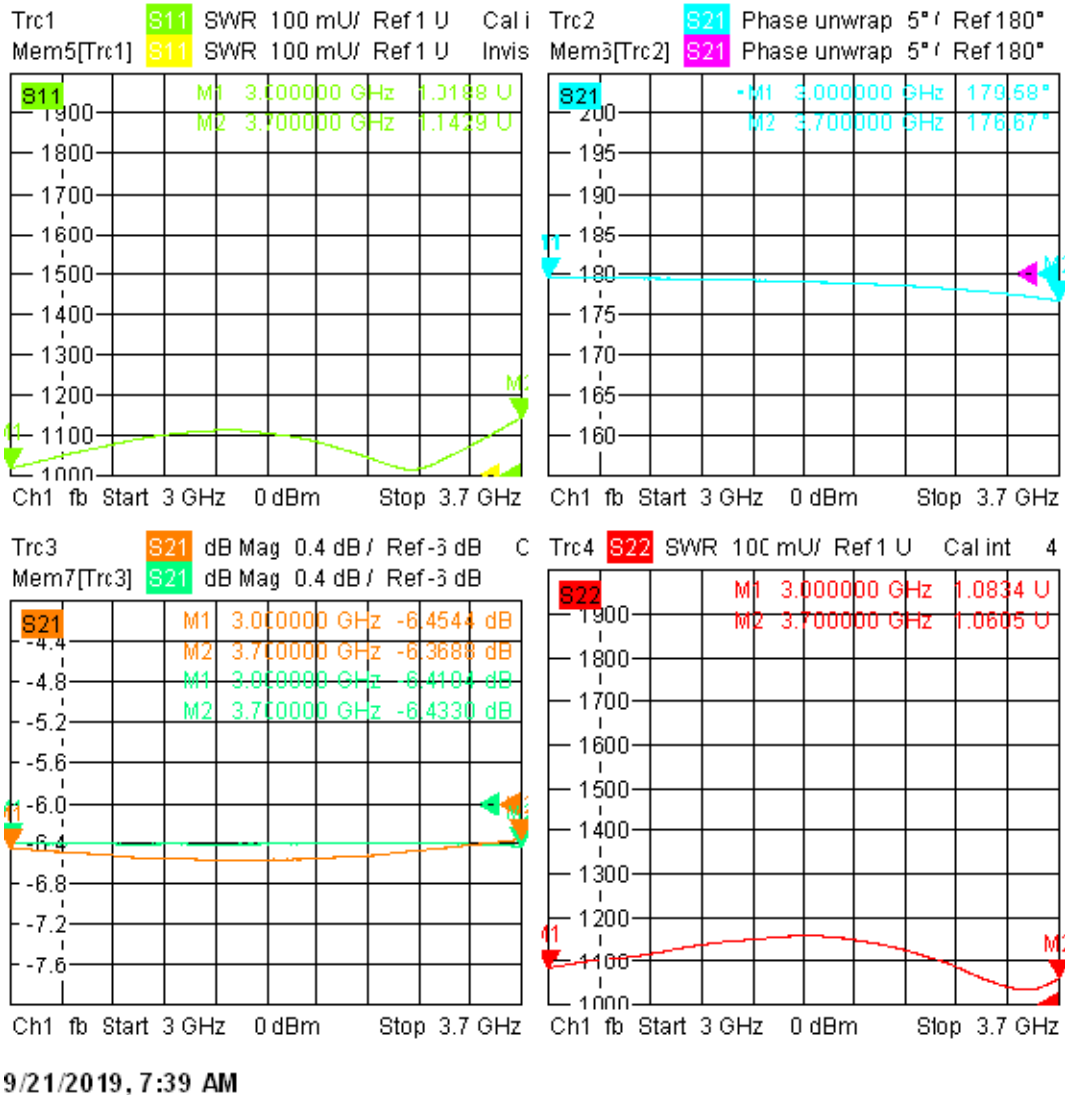
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to ΔQ



9/21/2019, 7:39 AM

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TYPICAL CHARACTERISTICS
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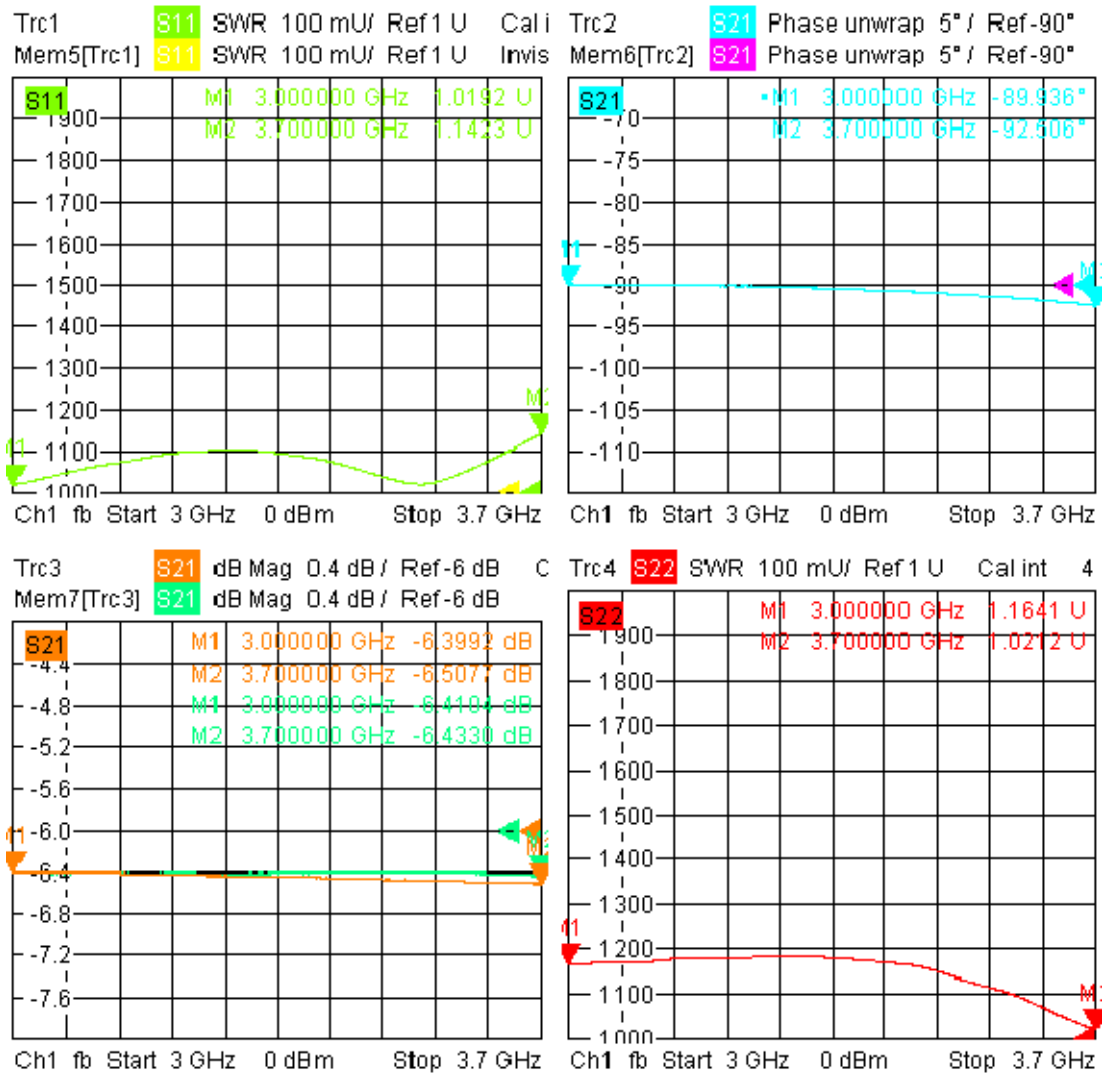
PMC-3G3D5G-6D8-SFF

Insertion Loss (S12/S21) and Phase Balance
Return Loss (S11& S22)

D to AZΔ



9/21/2019, 7:40 AM

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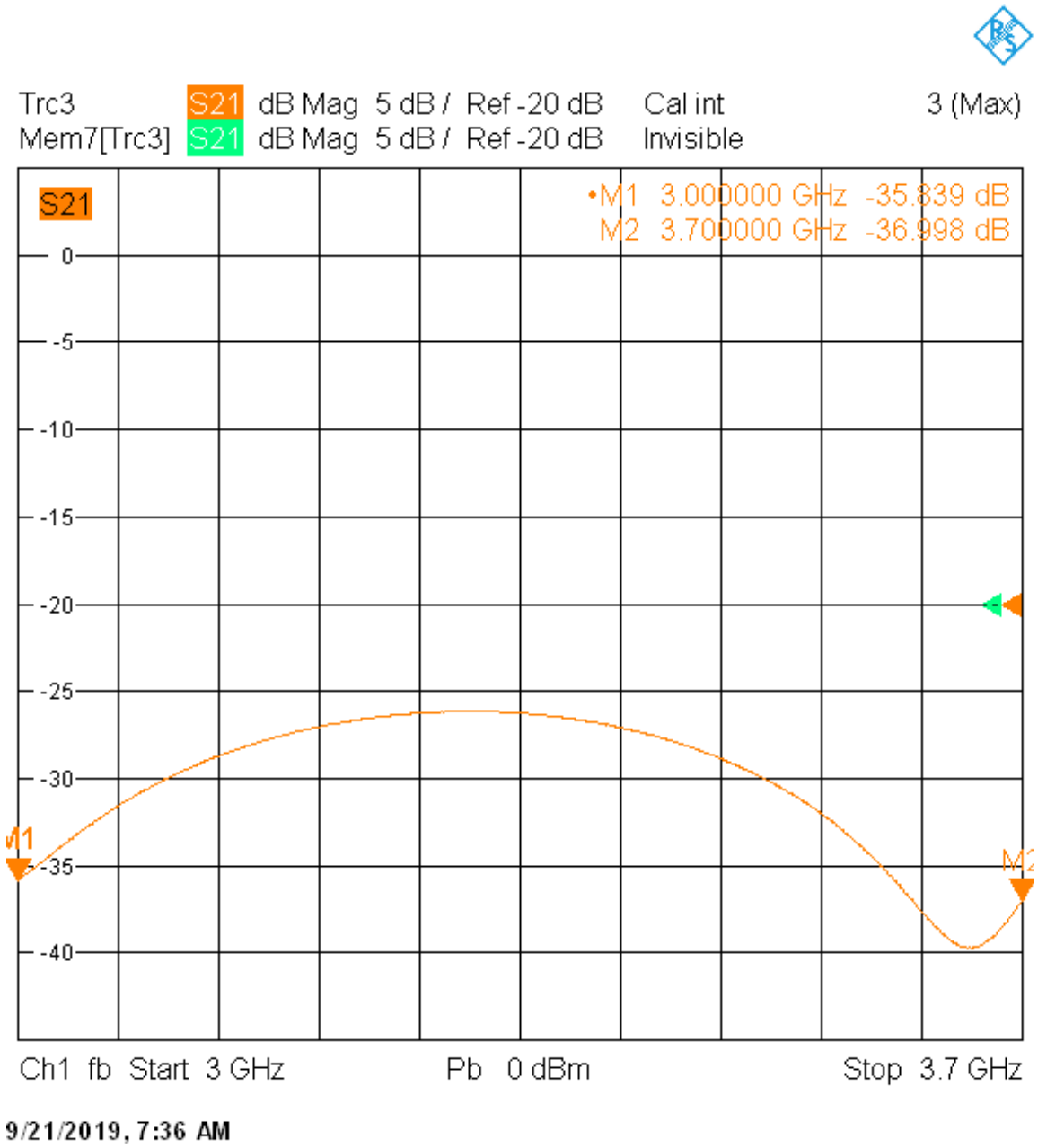
Email: sales@pmi-rf.com

TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

A to B Isolation



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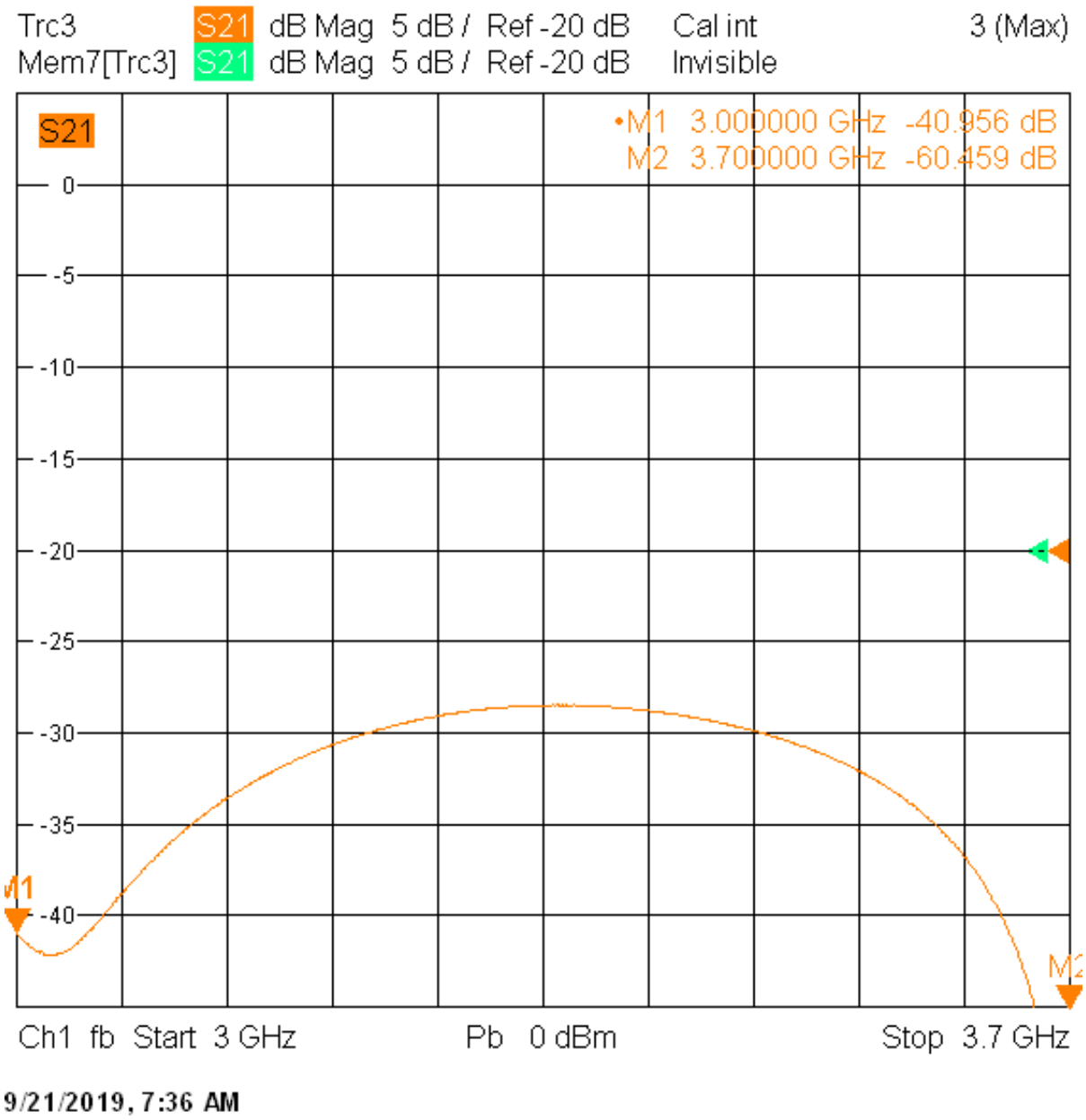
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

C to D Isolation



9/21/2019, 7:36 AM

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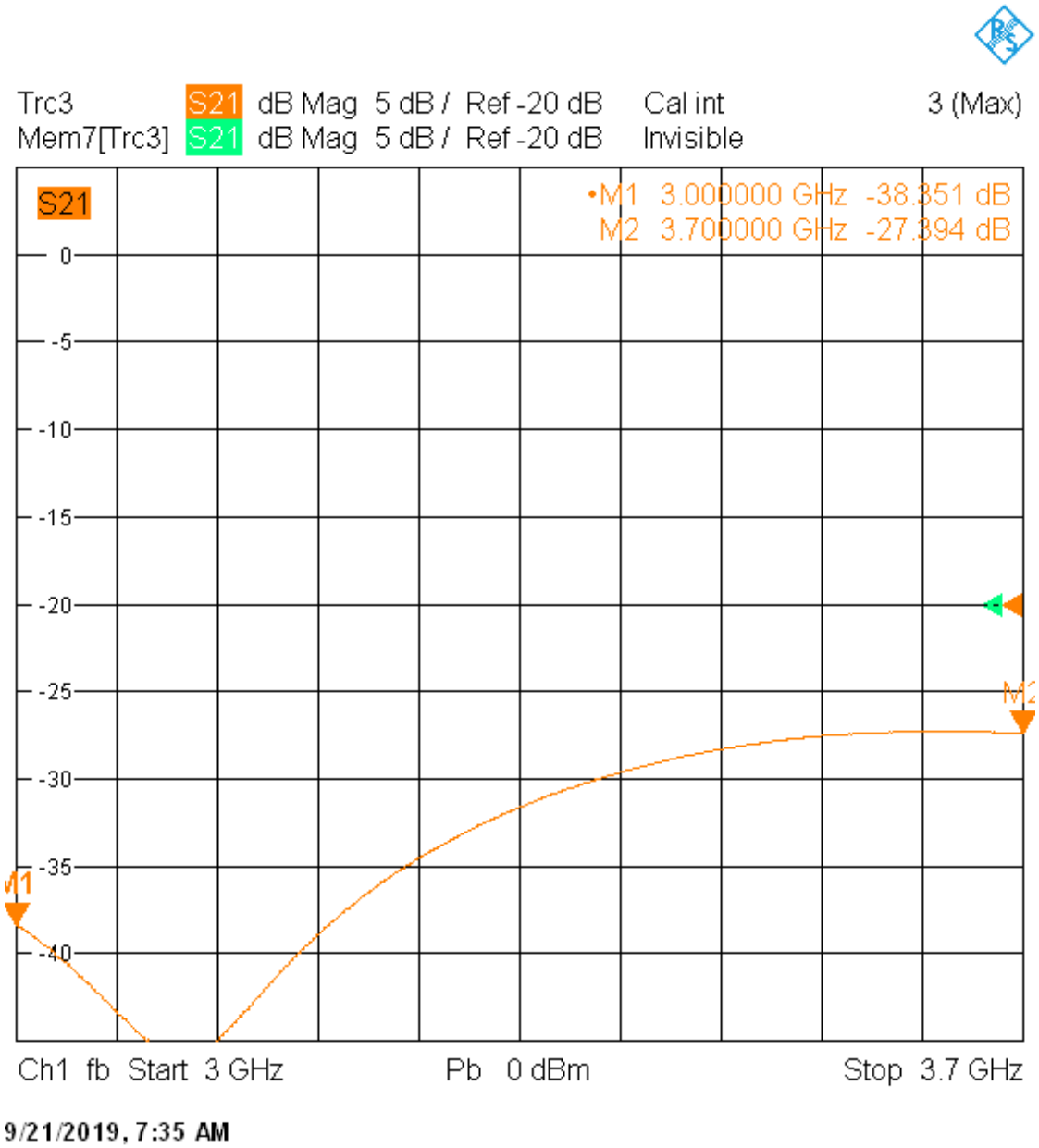
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

EL∆ to AZ∑ Isolation



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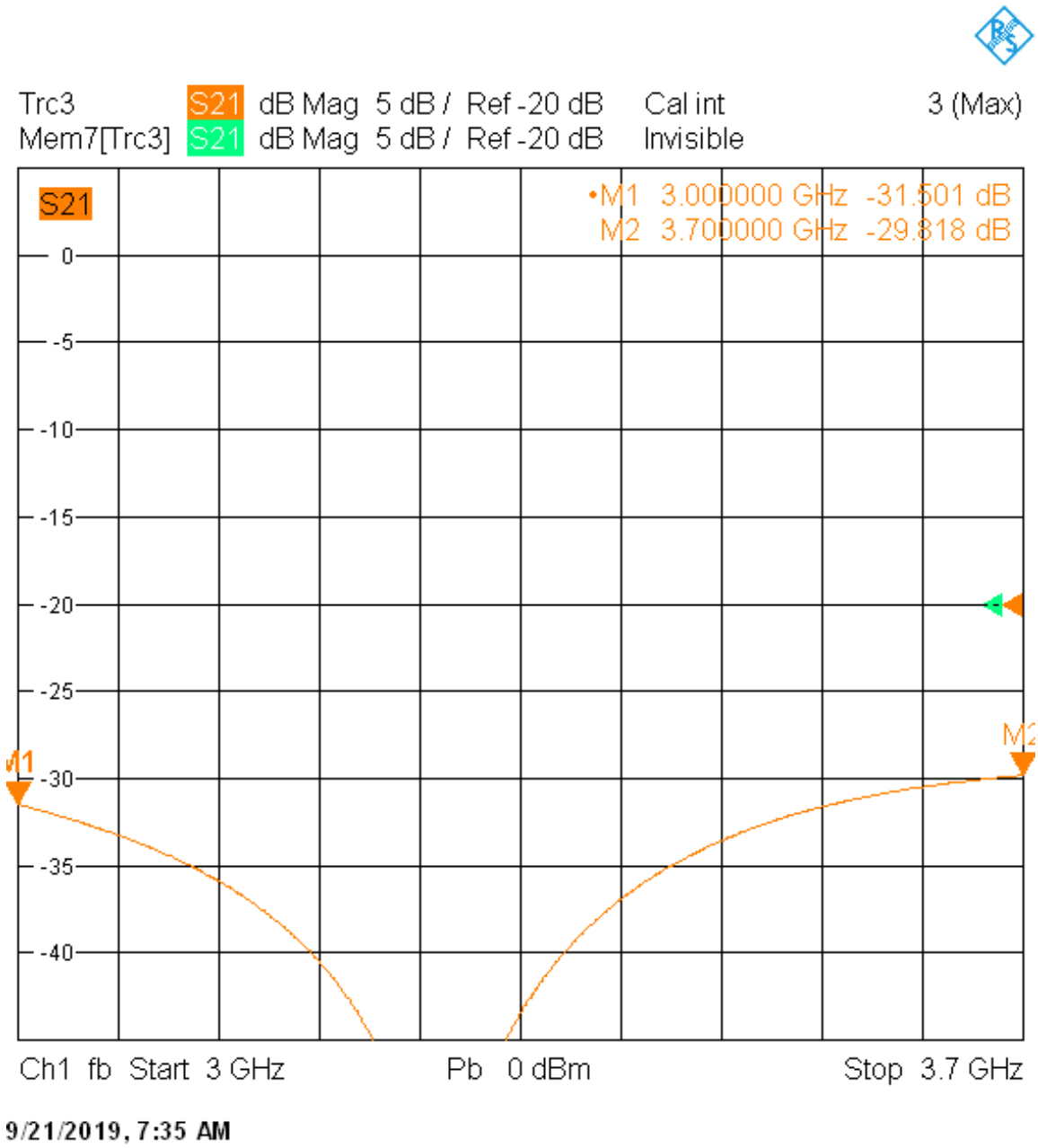
TYPICAL CHARACTERISTICS
ON
PMC-3G3D5G-6D8-SFF

ΔQ to AZΔ Isolation



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