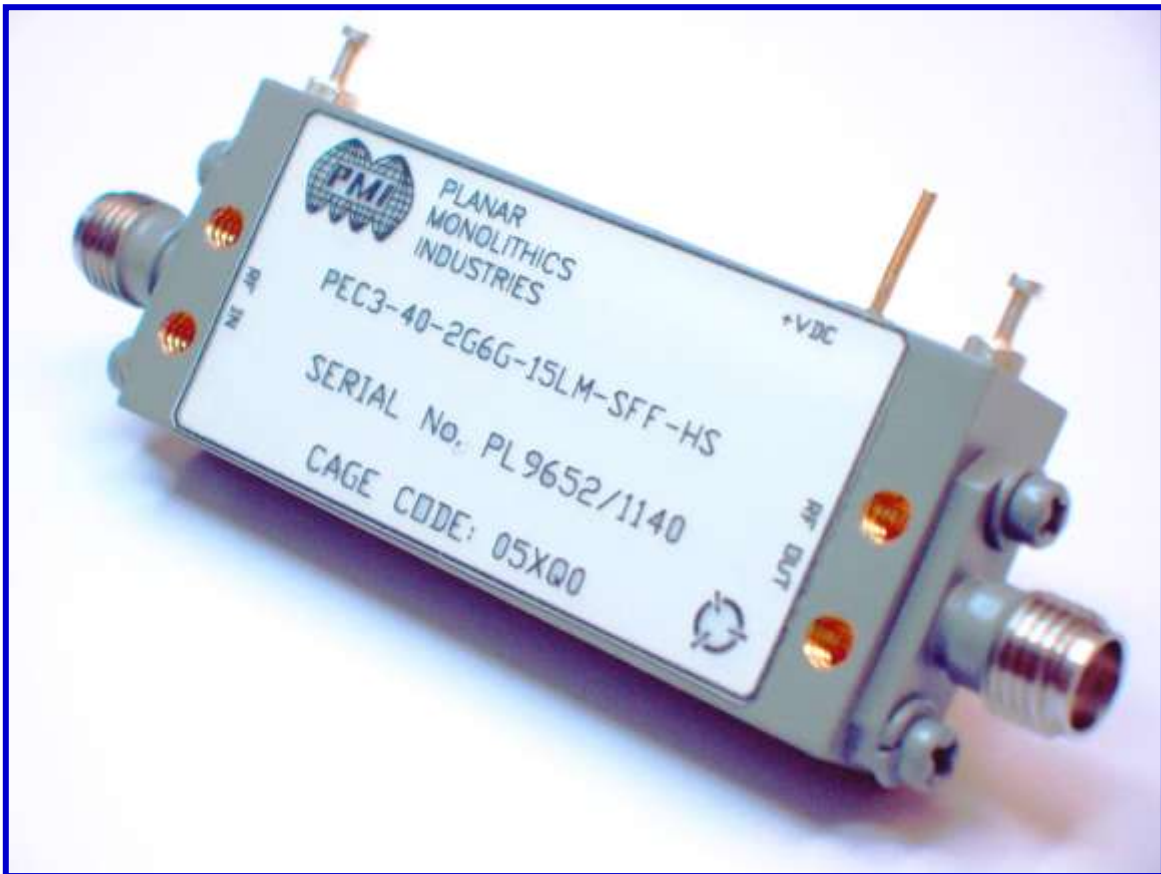




SUMMARY TEST DATA
ON
PEC3-40-2G6G-15LM-SFF-HS

Typical Characteristics For PEC3-40-2G6G-15LM-SFF-HS



October 13, 2011

Tested By: Hugo Gonzales/Sebastian Palacio
Reported by: Hugo Gonzales/Sebastian Palacio



**SUMMARY TEST DATA
ON
PEC3-40-2G6G-15LM-SFF-HS**

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE		PASS FAIL		QA QC
1	Frequency Range:	1.85 GHz – 6.25 GHz		1.85 GHz – 6.25 GHz Pass/See Plots		
2	Noise Figure:	5.5dB Max @ +25°C 6.0dB Max @ +85°C		Pass @ +25°C Pass @ +85°C (See Plots)		
3	Gain:	35dB Min		Pass/See Plots		
4	Gain Variation over Temperature:	±4.0dB Max (-55°C to +85°C)		Pass/See Plots		
5	Gain Flatness: (At any Temp.)	±2.5dB Max	Full Range	Pass/See Plots	Full Range	
		±2.0dB Max	(Over any 500MHz)	Pass/See Plots	(Over any 500MHz)	
6	VSWR: (Input/Output)	2.0:1 Max		Pass/See Plot		
7	Saturated Power Output:	+15dBm Min		Pass/See Plots		
8	Input Power Range:	-15 to +17 dBm		Pass		
9	Saturated Power Flatness:	±1.5dB Max	(At Any Operating Temperature)	Pass/See Plots	(At Any Operating Temperature)	
		±0.5dB Max	(Over any 500MHz)	Pass/See Plots	(Over any 500MHz)	
10	Saturated Power Variation over Temp.	±1.25dB Max (At any single Frequency)		Pass See Plots		
11	Harmonic Content:	-15dBc Min.		>15dBc		
12	Reverse Isolation:	50dB Min.		Pass (See Plot)		
13	Pulse Response: (Overshoot)	0.2dB Max		See Plots		



**SUMMARY TEST DATA
ON
PEC3-40-2G6G-15LM-SFF-HS**

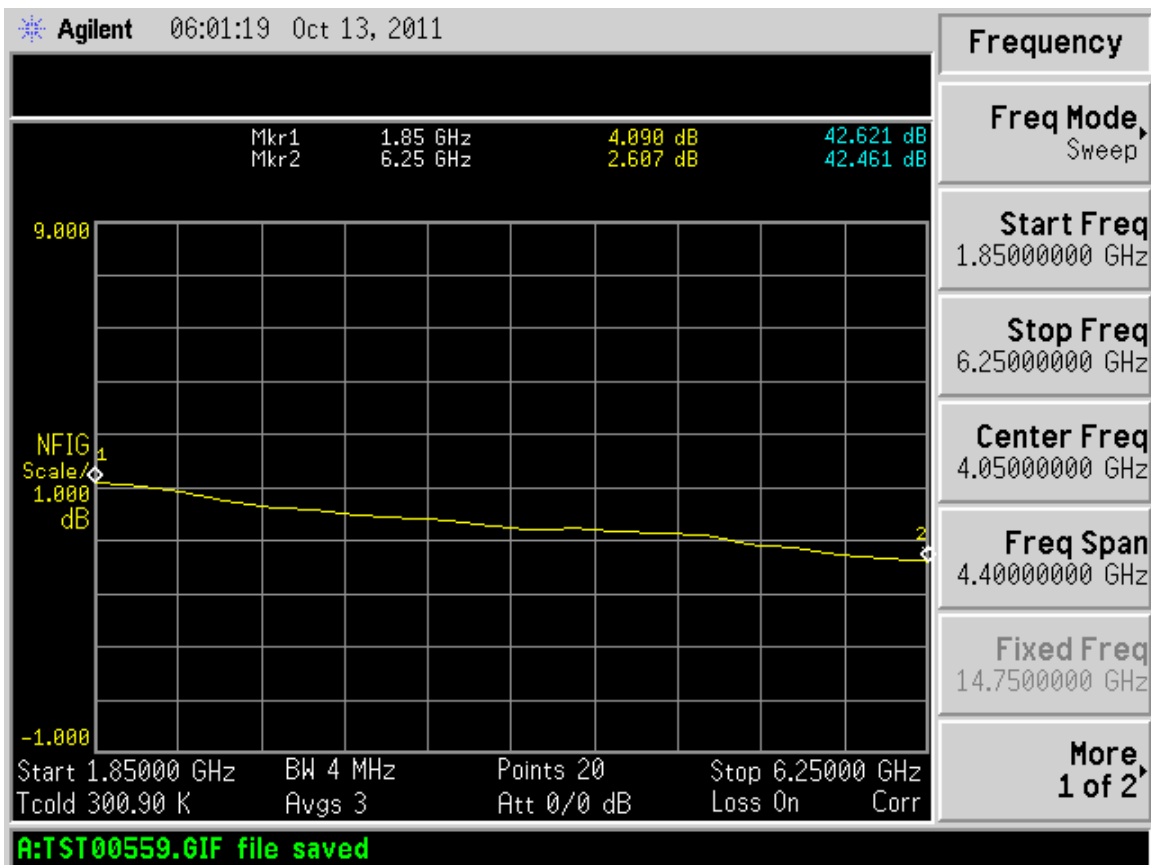
14	Pulse Response: (Settling Time)	10nsec Max	See Plots	
15	Pulse Response: (Recovery Time)	50nsec Max	See Plots	
16	Maximum Input: (No Damage)	+20dBm CW Max. +30dBm, .005 Duty Cycle, 1 μ sec	Pass	
17	DC Supply:	350mA Max. @ +10.8VDC to +13.2VDC	210 mA @ +10.8VDC to +13.2VDC	

QA/QC Approval: _____ Date: _____



**SUMMARY TEST DATA
ON
PEC3-40-2G6G-15LM-SFF-HS**

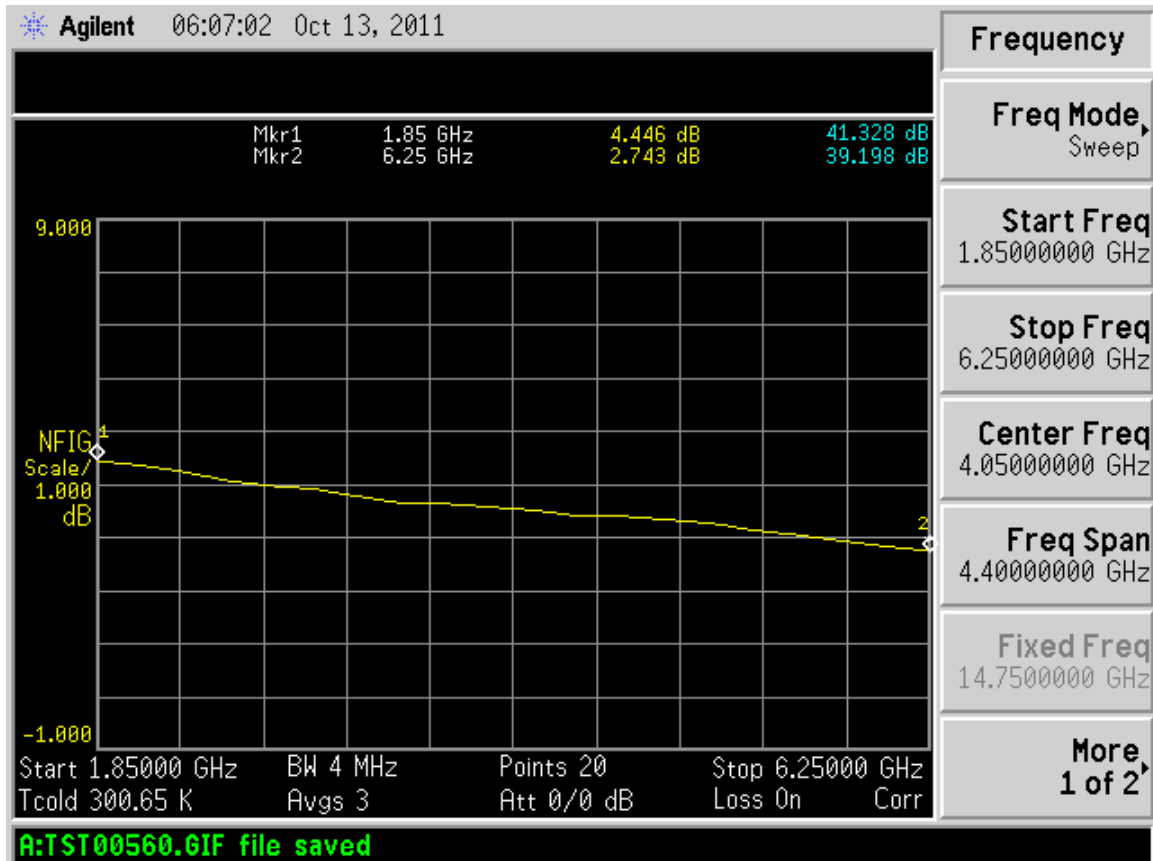
Noise Figure Plot (+25°C)





**SUMMARY TEST DATA
ON
PEC3-40-2G6G-15LM-SFF-HS**

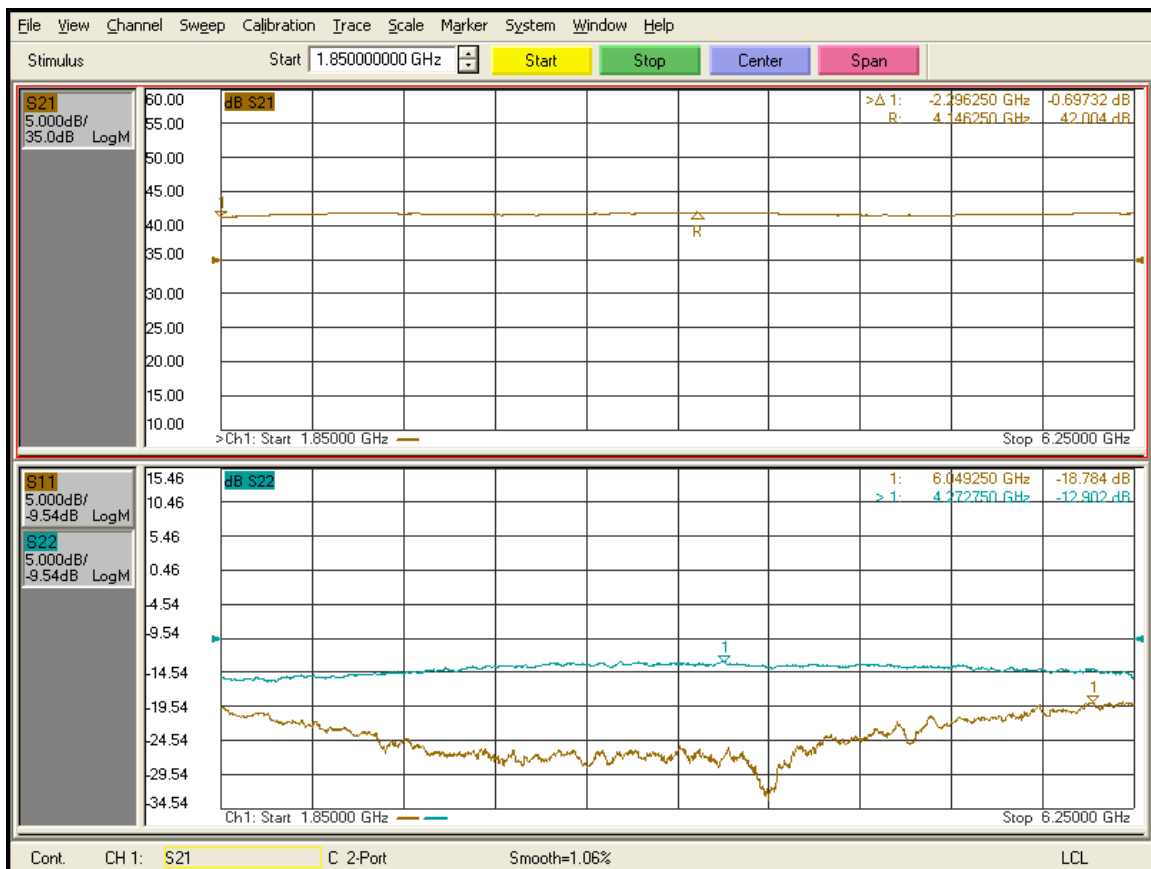
Noise Figure Plot (+85°C)





SUMMARY TEST DATA ON PEC3-40-2G6G-15LM-SFF-HS

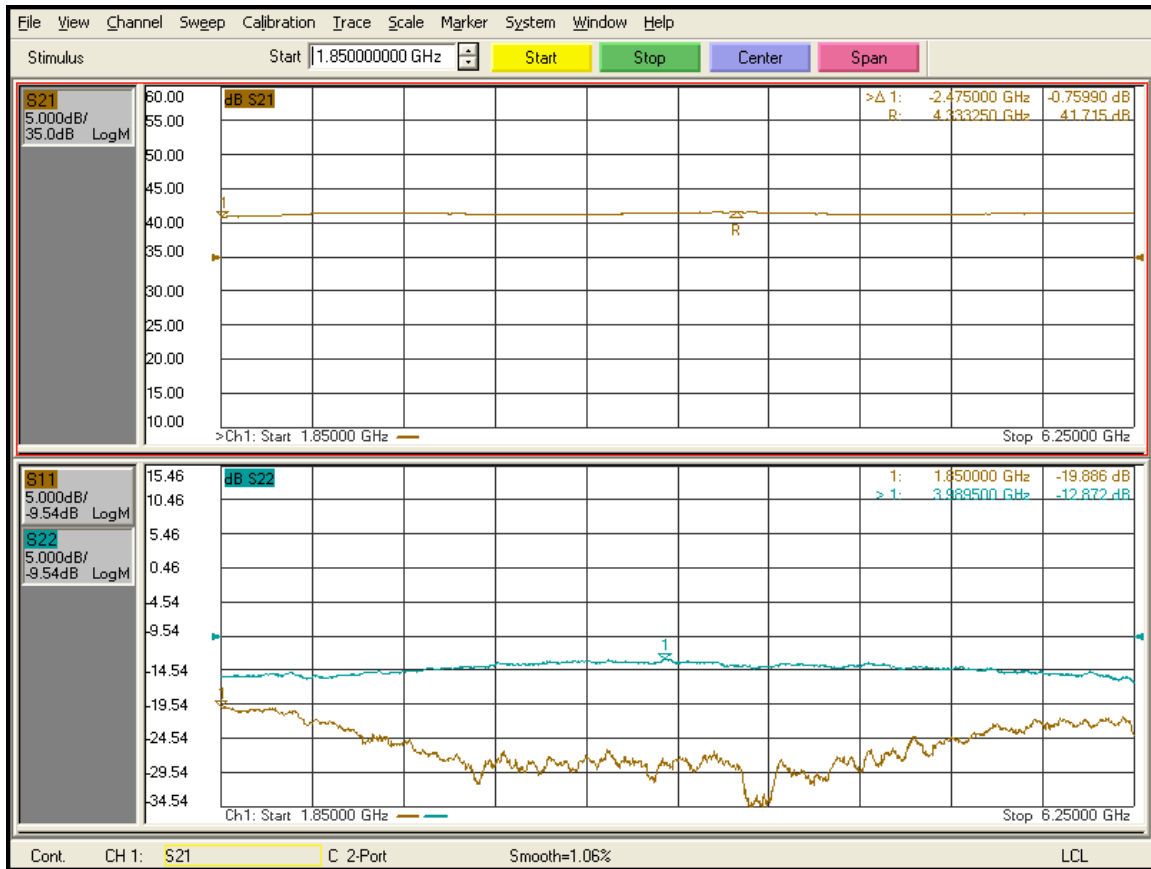
Gain & VSWR @ +25C





SUMMARY TEST DATA ON PEC3-40-2G6G-15LM-SFF-HS

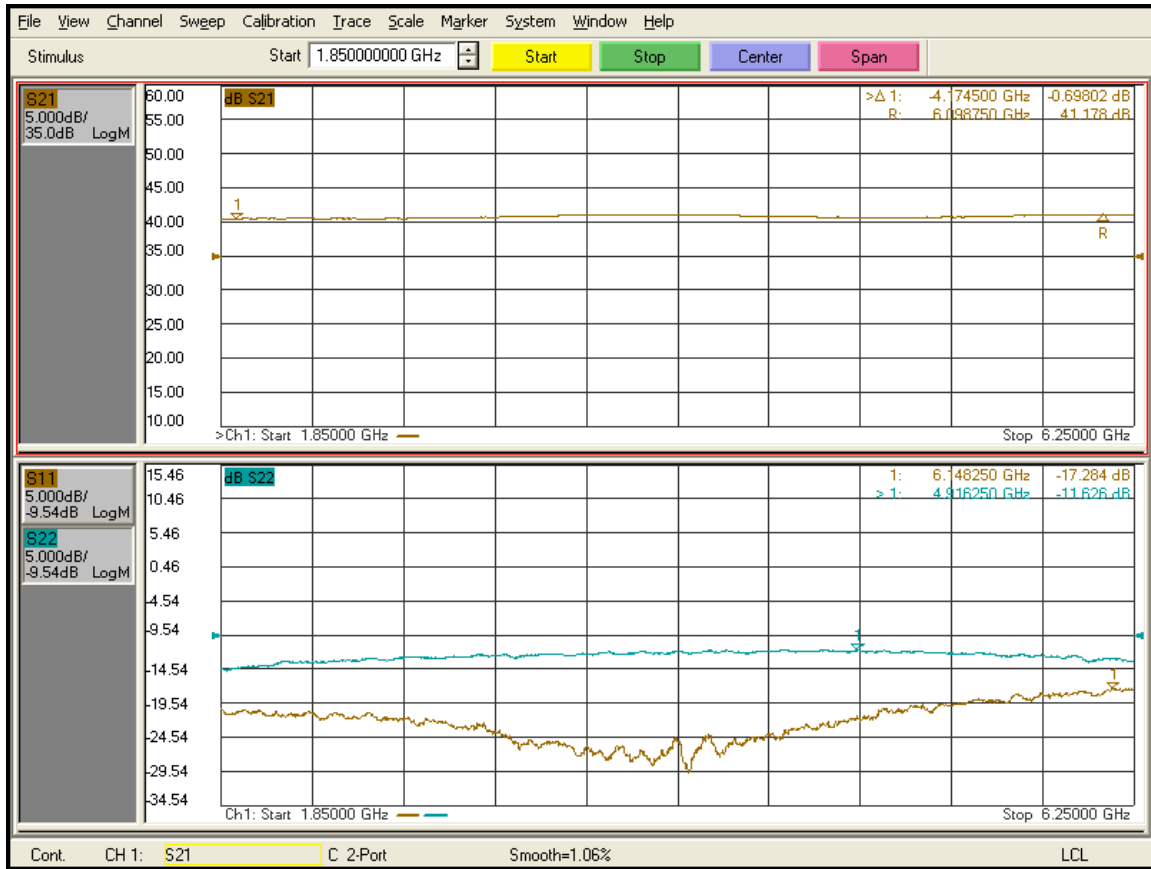
Gain & VSWR @ +85C





SUMMARY TEST DATA ON PEC3-40-2G6G-15LM-SFF-HS

Gain & VSWR @ -55C



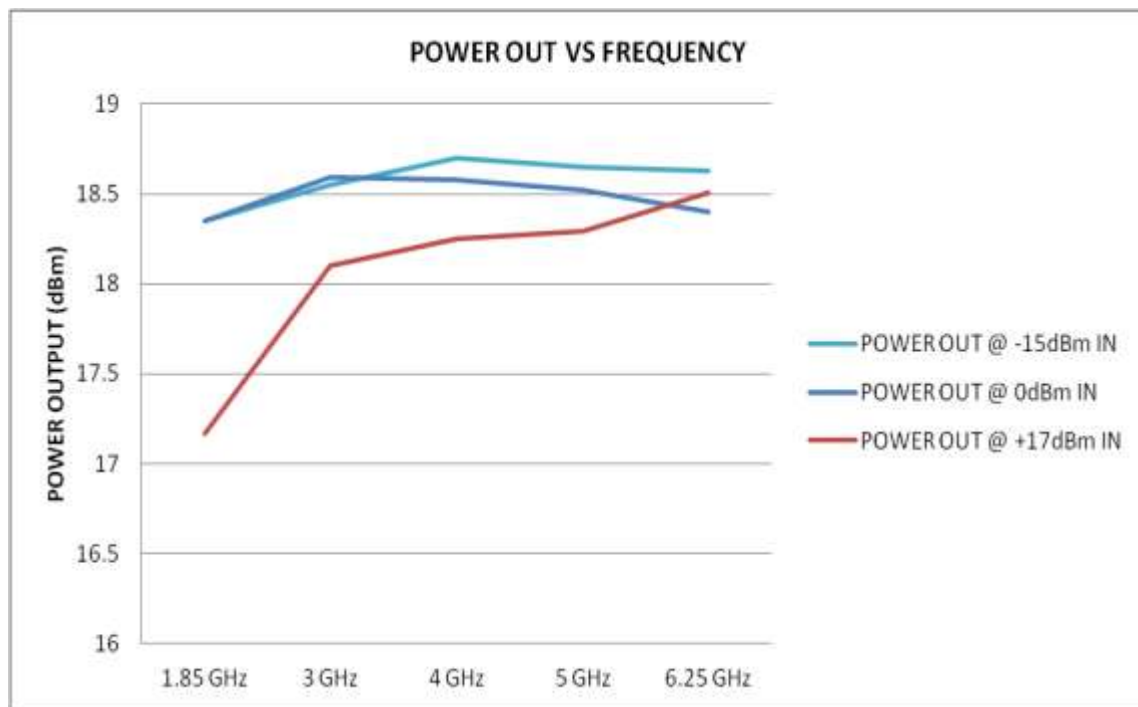


SUMMARY TEST DATA ON PEC3-40-2G6G-15LM-SFF-HS

Saturated Power Output @ +25c

INPUT POWER -15 to +17dBm CW

	1.85 GHz	3 GHz	4 GHz	5 GHz	6.25 GHz
-15	18.35	18.55	18.7	18.65	18.63
0	18.35	18.59	18.58	18.52	18.4
17	17.17	18.1	18.25	18.29	18.51



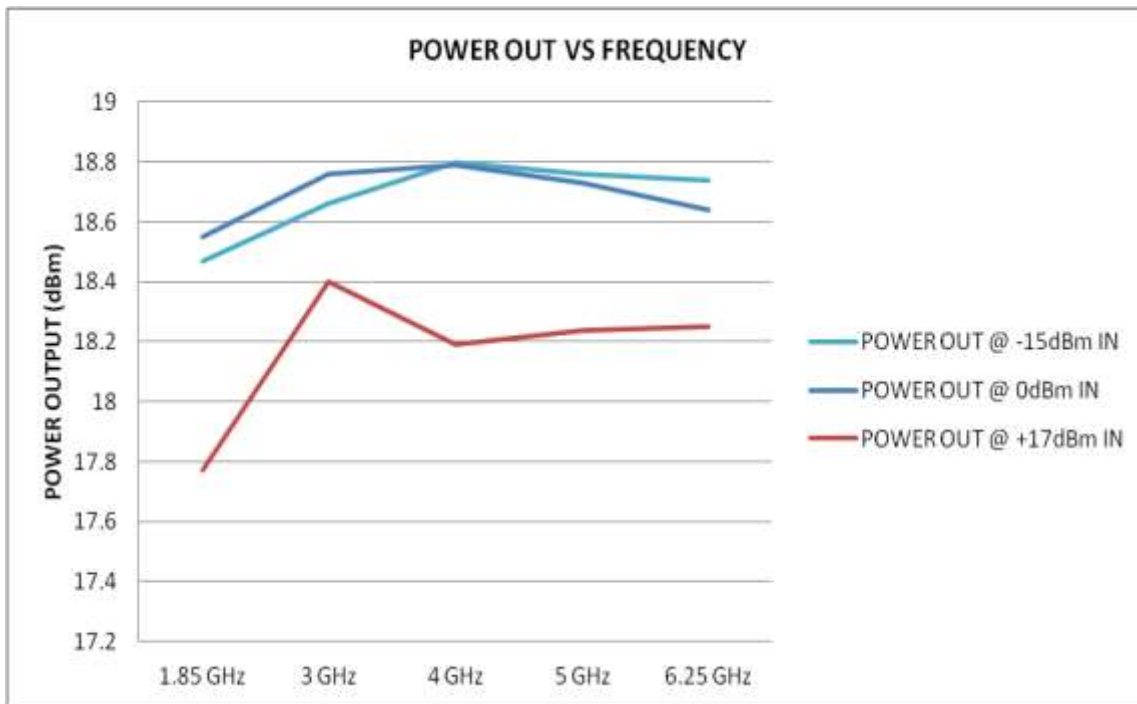


SUMMARY TEST DATA ON PEC3-40-2G6G-15LM-SFF-HS

Saturated Power Output @ +85c

INPUT POWER -15 to +17dBm CW

	1.85 GHz	3 GHz	4 GHz	5 GHz	6.25 GHz
-15	18.47	18.66	18.8	18.76	18.74
0	18.55	18.76	18.79	18.73	18.64
17	17.77	18.4	18.19	18.24	18.25



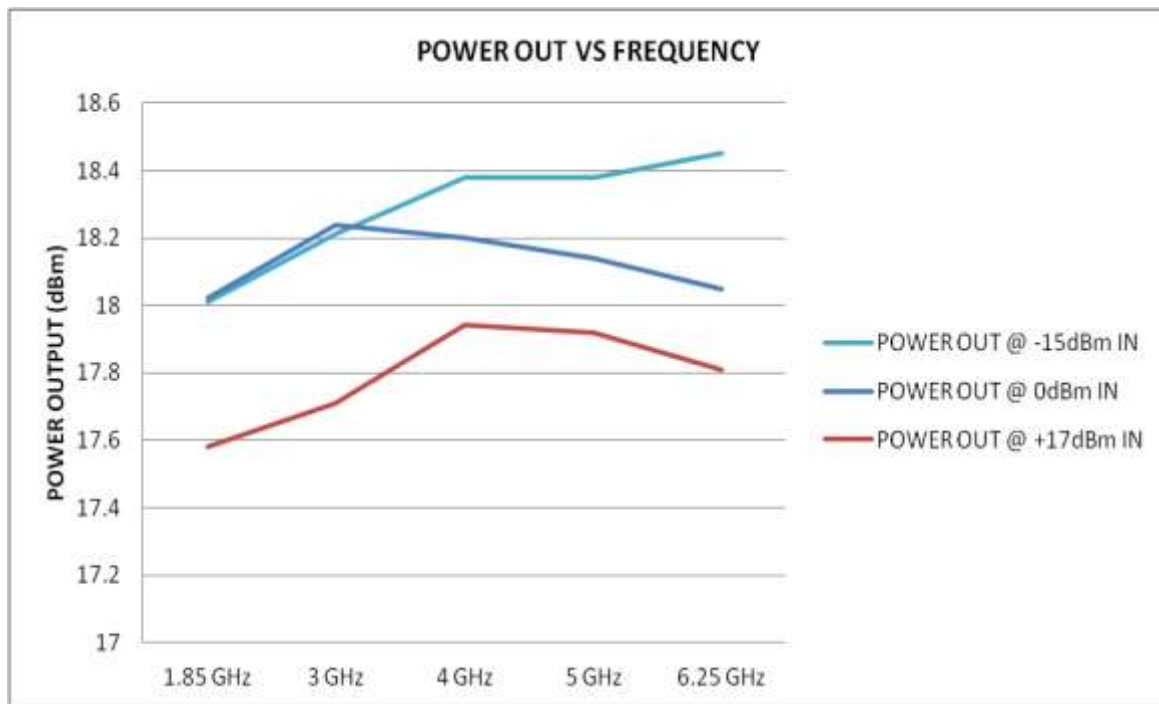


SUMMARY TEST DATA ON PEC3-40-2G6G-15LM-SFF-HS

Saturated Power Output @ -55c

INPUT POWER -15 to +17dBm CW

	1.85 GHz	3 GHz	4 GHz	5 GHz	6.25 GHz
-15	18.01	18.21	18.38	18.38	18.45
0	18.02	18.24	18.2	18.14	18.05
17	17.58	17.71	17.94	17.92	17.81





**SUMMARY TEST DATA
ON
PEC3-40-2G6G-15LM-SFF-HS**

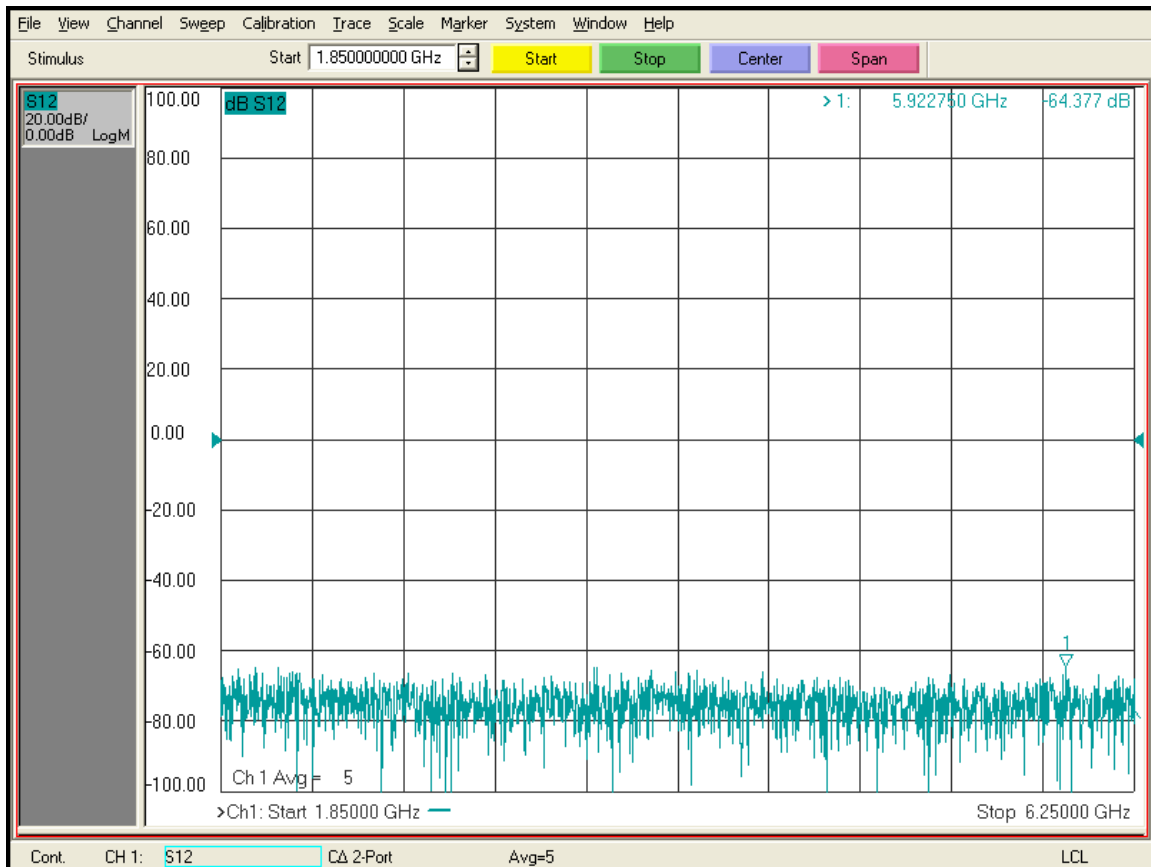
Harmonic Content

	2nd Harmonic @ 3960MHz
-30dBm CW @ 1980MHz	31.01dBc
-10dBm CW @ 1980MHz	21.16dBc
+10dBm CW @ 1980MHz	18.05dBc
+17dBm CW @ 1980MHz	16.53dBc



SUMMARY TEST DATA ON PEC3-40-2G6G-15LM-SFF-HS

Reverse Isolation



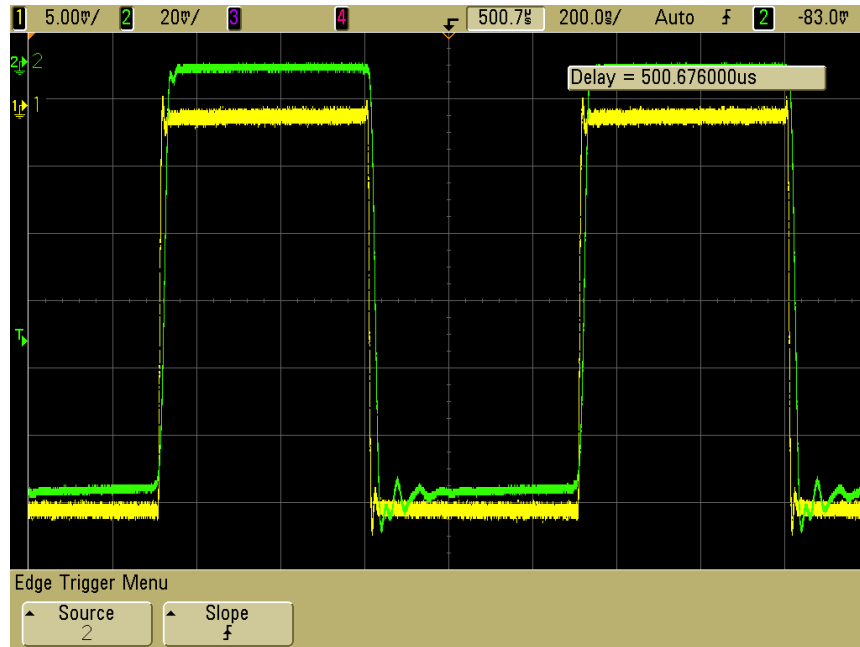
Pulse Response

7311-F Grove Road, Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
email: sales@pmi-rf.com

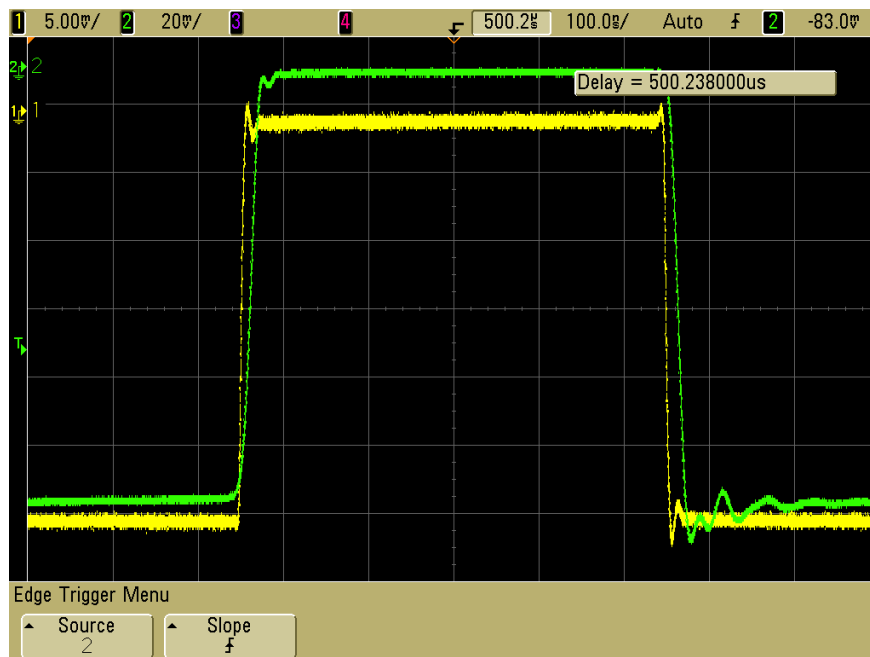


**SUMMARY TEST DATA
ON
PEC3-40-2G6G-15LM-SFF-HS**

Full Pulse @ 200ns per Div.



Pulse @ 100ns per Div.



Green Trace: Amplifier Output (Thru a Crystal Detector, Negative output)

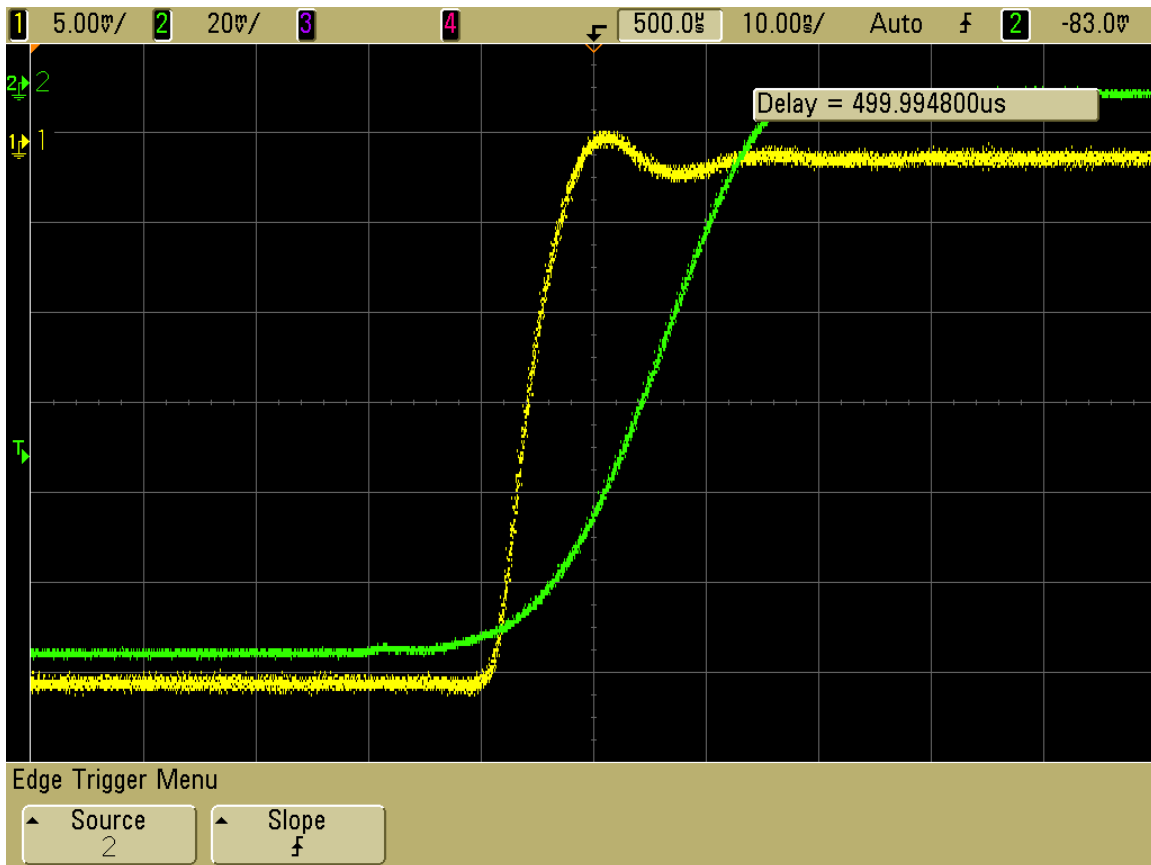
Yellow Trace: CW Pulse (Thru a Diode Detector, Negative output)



**SUMMARY TEST DATA
ON
PEC3-40-2G6G-15LM-SFF-HS**

Pulse Response

OFF Delay 10 ns per Div.



Green Trace: Amplifier Output (Thru a Crystal Detector, Negative output)

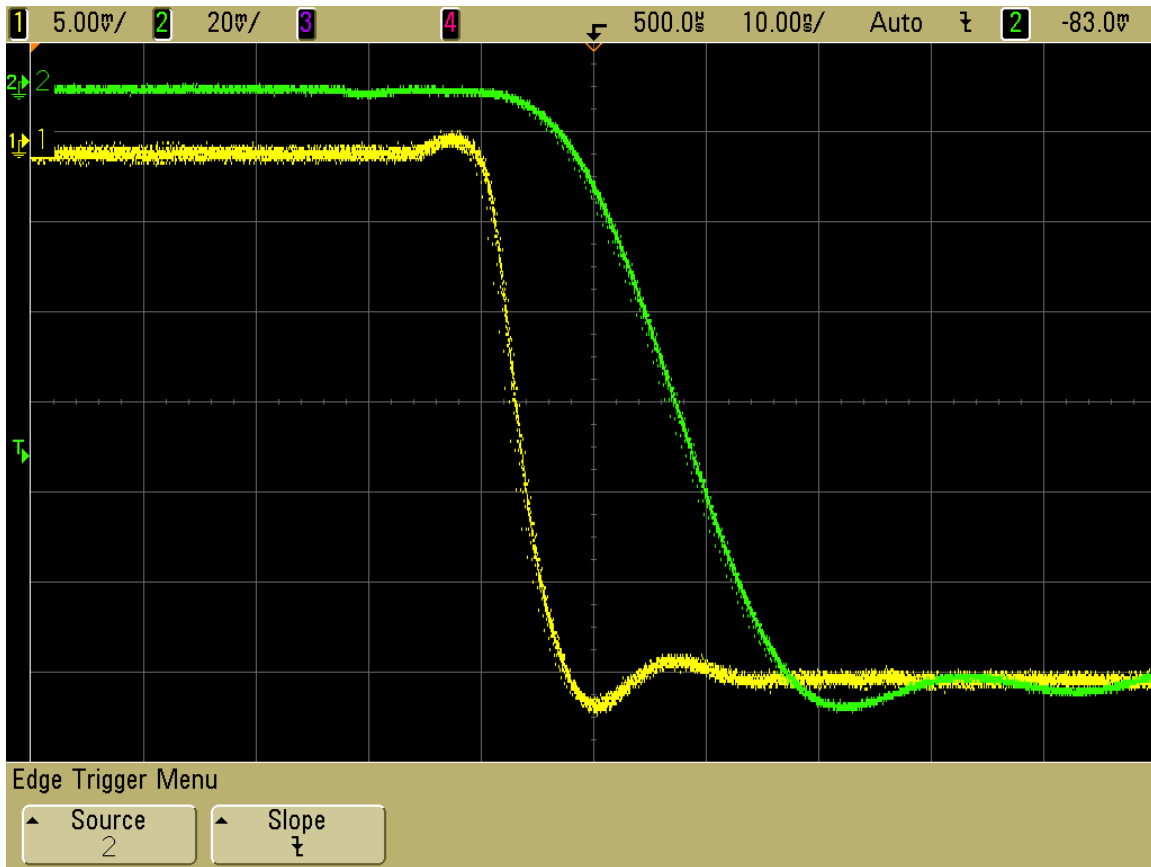
Yellow Trace: CW Pulse (Thru a Diode Detector, Negative output)



**SUMMARY TEST DATA
ON
PEC3-40-2G6G-15LM-SFF-HS**

Pulse Response

ON Delay 10 ns per Div.



Green Trace: Amplifier Output (Thru a Crystal Detector, Negative output)

Yellow Trace: CW Pulse (Thru a Diode Detector, Negative output)