

SUMMARY TEST DATA ON AMPLIFIER

Job No	: <u>PE603028</u>	Tested By	: <u>Kevin Mason</u>
Model No:	: <u>PEC-4025-218-21-12-SFF-TTLVG</u>	Temperature	: <u>+25°C</u>
Serial No	: <u>PL2722/0640</u>	Date	: <u>09/13/06</u>

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range:	2.0 – 18.0 GHz	Pass	
2	Gain @ +25°C: Max. Gain Position Min. Gain Position	40dB ± 2.0dB 25dB ± 2.0dB	Pass	Plot Provided
3	Gain @ +75°C: Max. Gain Position Min. Gain Position	37dB ± 2.0dB 22dB ± 2.0dB	Pass	
4	Gain @ -25°C: Max. Gain Position Min. Gain Position	42dB ± 2.0dB 27dB ± 2.0dB	Pass	
5	Noise @ +25°C: Max. Gain Position Min. Gain Position	4.5 dB Max. 7.0 dB Max.	Pass	Plot Provided
6	Noise @ +75°C: Max. Gain Position Min. Gain Position	5.0 dB Max. 8.0 dB Max.	Pass	
7	Noise @ -25°C: Max. Gain Position Min. Gain Position	3.8 dB Max. 6.0 dB Max.	Pass	
8	Pout @ 1dB Compression @ +25°C: Max. Gain Position Min. Gain Position	+21dBm Min. +20dBm Min.	Pass	
9	Pout @ 1dB Compression @ +75°C: Max. Gain Position Min. Gain Position	+20dBm Min. +20dBm Min.	Pass	
10	Pout @ 1dB Compression @ -25°C: Max. Gain Position Min. Gain Position	+21dBm Min. +20dBm Min.	Pass	
11	Max. Saturated Output Power	+26dBm. Max.	Pass	
12	VSWR In/Out:	2.0:1 Max.	Pass	Plot Provided
13	Max. Input Power w/o Damage	+20dBm CW	Pass	

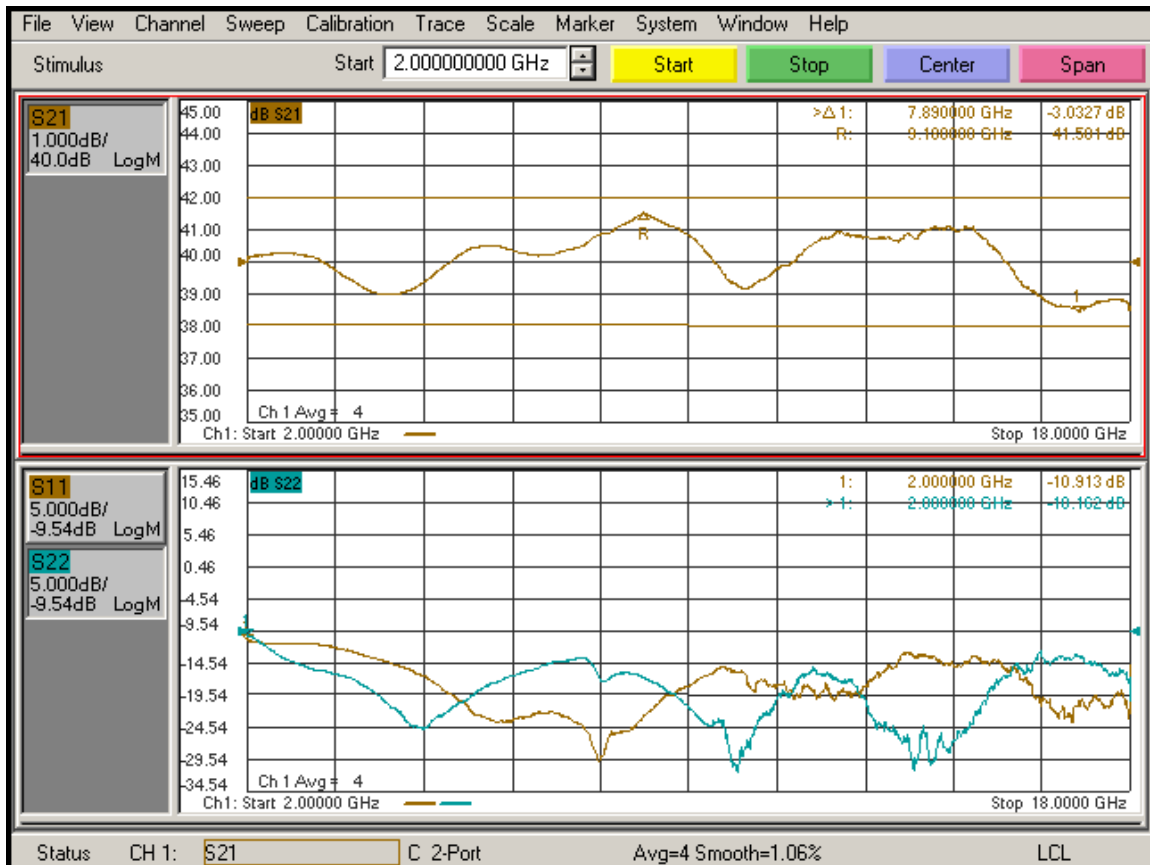
14	In-Band Harmonics @ or below 1dB Comp.	-10dBc Min.	Pass	
15	Pulse Rise Time /w Input Signals up to -20dBm	<5nsec.	Pass	
16	Pulse Overshoot /w Input Signals up to -20dBm	<0.5dB	Pass	
17	Pulse Droop /w Input pulses up to 250usec in duration and input signals up to -20dBm	<2.0dB	Pass	
18	Pulse Recovery Time /w Input pulses up to 250usec in duration and input signals up to -20dBm	<15nsec.	Pass	
19	Gain Switch Time	<500nsec.	Pass	
20	Gain Switch Control:	TTL High "1" - Max. Gain TTL Low "0" - Min. Gain	Pass	
21	DC Supply: Max. Gain Position: Min. Gain Position:	780mA @ +12V $\pm$ 5% Max. 610mA @ +12V $\pm$ 5% Max.	296mA	

Production Manager Approval:  Date: 09/13/06

QA/QC Approval:  Date: 09/13/06

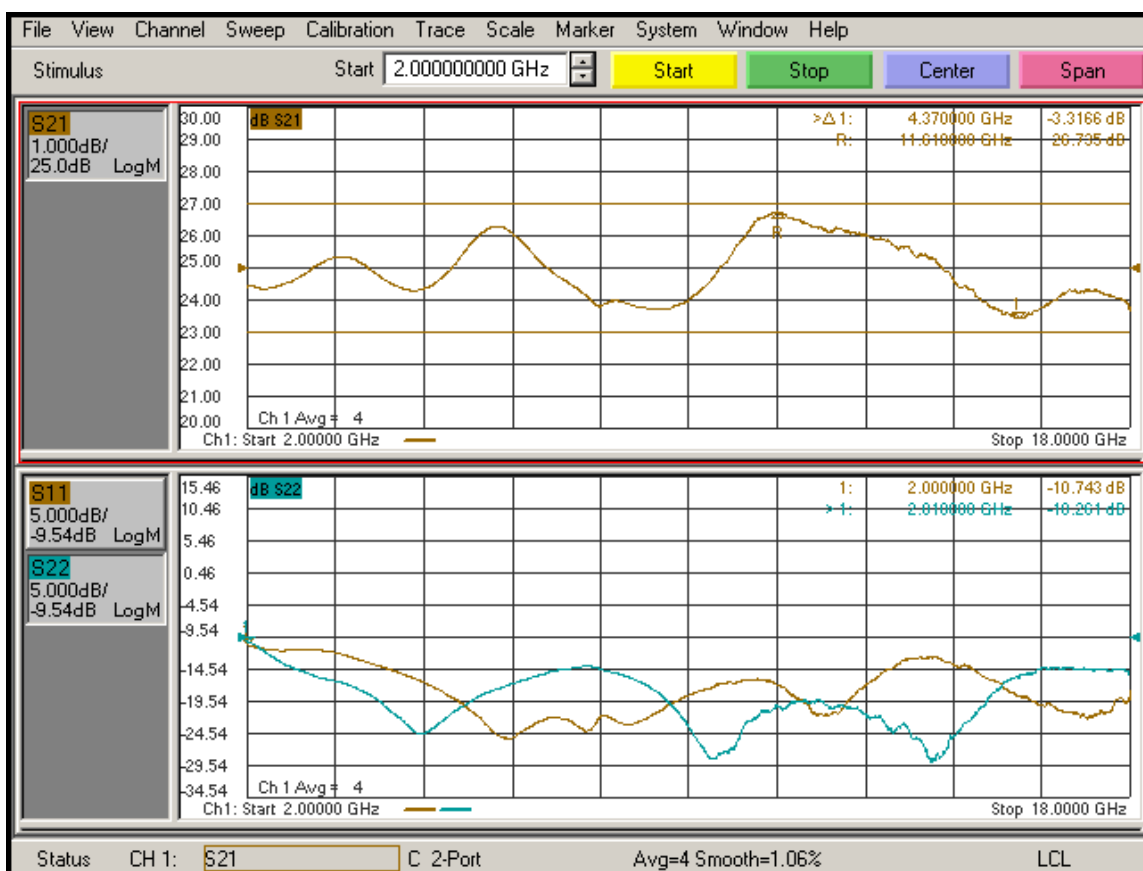
Swept Plot (S21, S11 and S22)

“TTL” = High (Max. Gain)



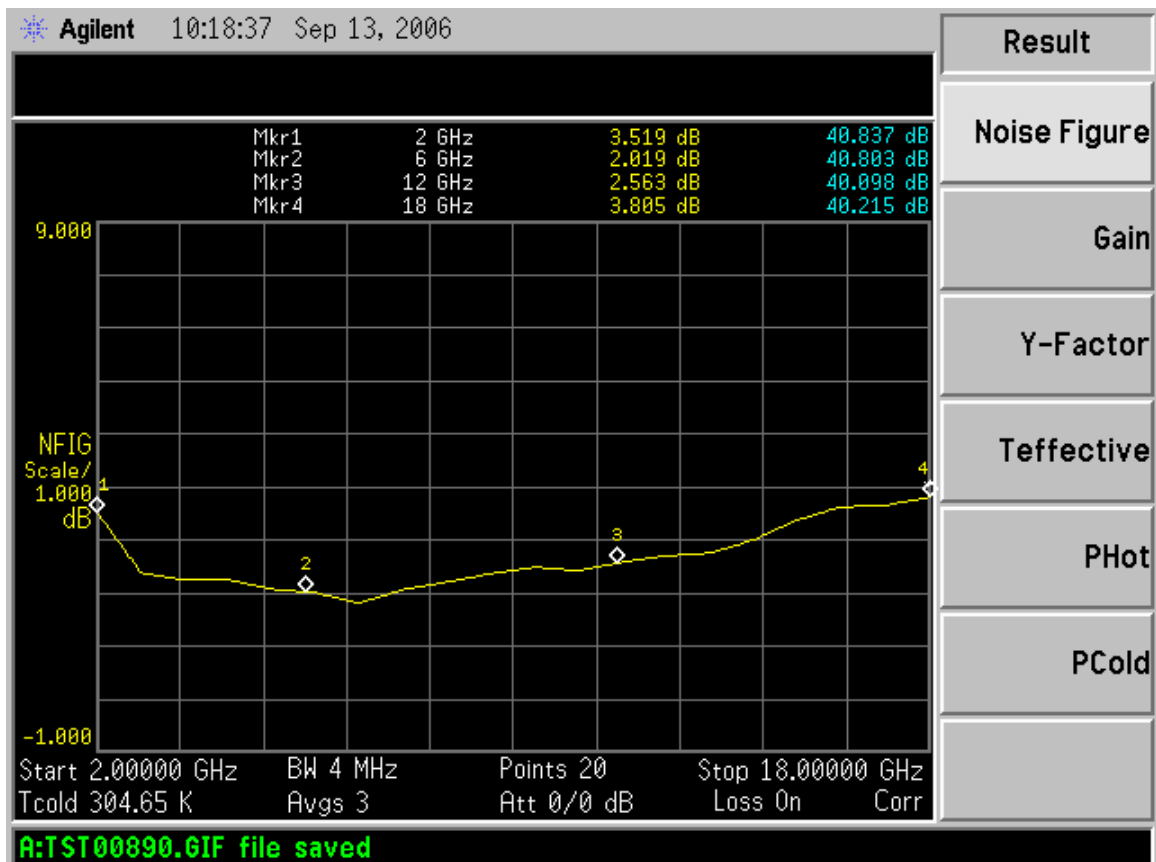
Swept Plot (S21, S11 and S22)

“TTL” = Low (Min. Gain)



Noise Figure Plot

"TTL" = High (Max. Gain)



Noise Figure Plot

“TTL” = Low (Min. Gain)

