




SUMMARY TEST DATA ON AMPLIFIER

Customer :
Job No :
Model No : PEC-25/15-618-15-SFF
Serial No : PL1085

Tested By : Kevin Mason
Temperature : +25°C
Date : 09/18/03

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range:	6 – 18 GHz	Pass	
2	Gain:	J1-J2: 23 to 27dB J1-J3: 13 to 17dB	Pass (See Plots)	
3	Gain Variation: J1-J2, J1-J3	±2.5 dB Max.	J1-J2: ±1.57 dB J1-J3: ±1.50 dB	
4	Noise Figure:	10.0 dB Max.	Pass (See Plots)	
5	Output Power J1-J2: J1-J3:	+13 dBm Min. with -9 to +5dBm RF CW in J1 +13 dBm Min. with +1 to +5dBm RF CW in J1	13.1 to 17.0 dBm 14.9 to 17.5 dBm	
6	VSWR In/Out:	2.0:1 Max.	Pass (See Plots)	
7	Harmonics:	15dBc Min.	≥ 15dBc	
8	OIP3	+24dBm Min. @ J2 +21dBm Min. @ J3	> +24dBm >+21dBm	
9	Temperature Range	-54 to +85 °C	Pass	
10	Isolation	0.1dB Max. J2 to J3	< 0.1dB	
11	DC Power	620mA@+15 VDC +/-2V	358mA	

Production Manager Approval:  **Date:** 09/18/03

QA/QC Approval:  **Date:** 09/18/03

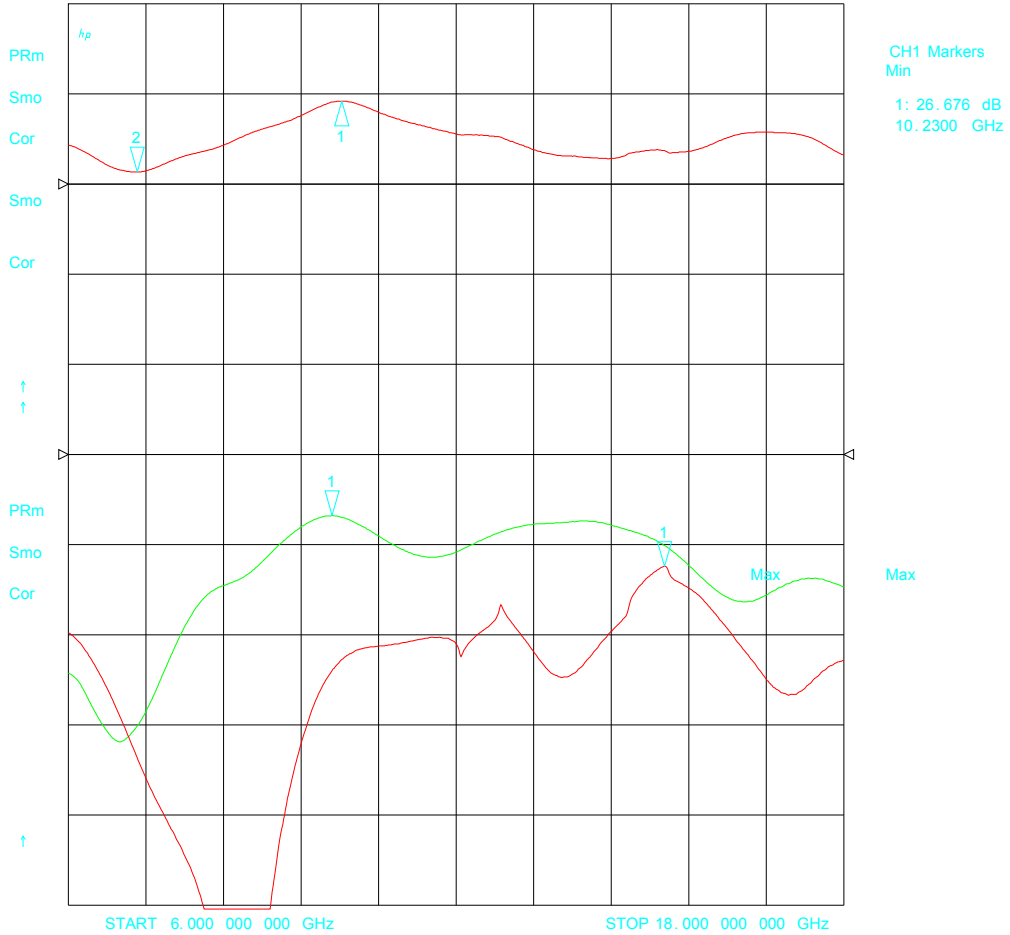
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 email: sales@planarelec.com



VNA Plot – J1 to J2

18 Sep 2003 15:25:14

CH1	S21	LOG	4 dB/	REF 23 dB	2: 23.527 dB	7.065 000 000 GHz
CH2	S11	LOG	5 dB/	REF -9.54 dB	1: -12.946 dB	10.080 000 000 GHz
CH3	S22	LOG	5 dB/	REF -9.54 dB	1: -15.760 dB	15.225 000 000 GHz

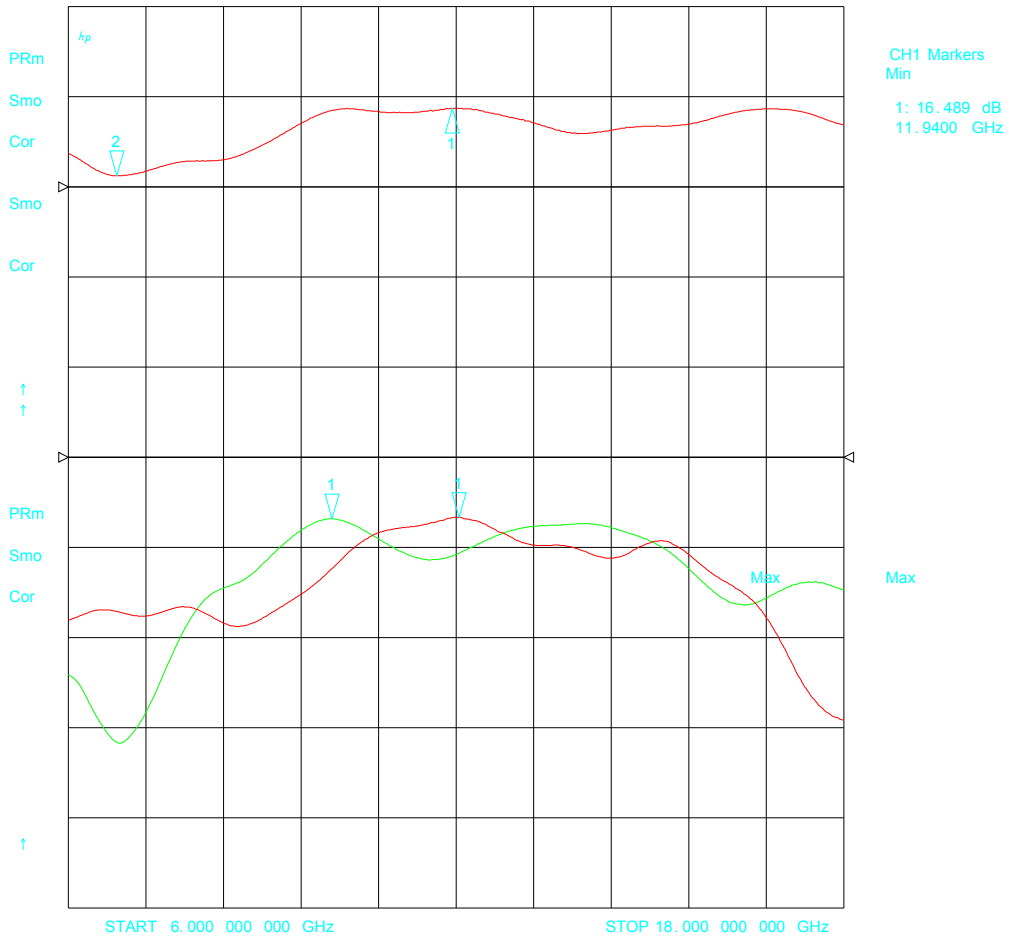


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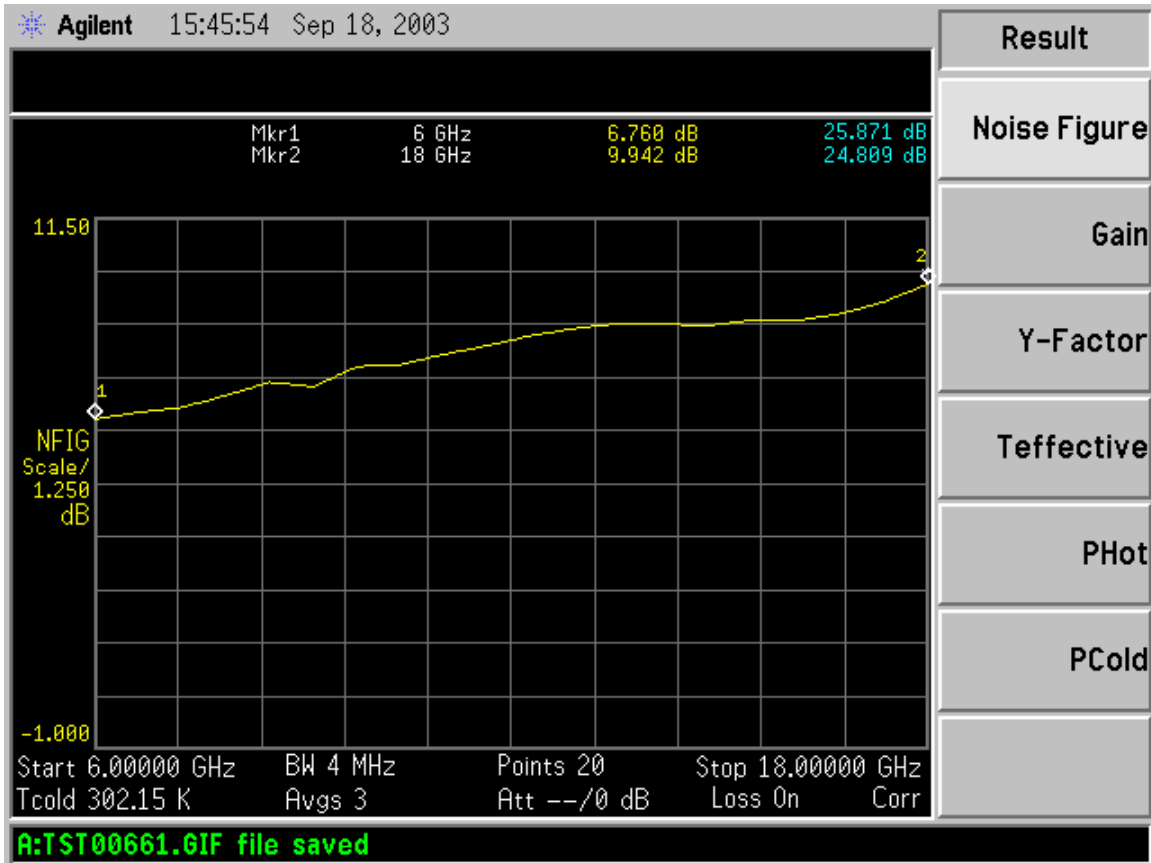
VNA Plot – J1 to J3

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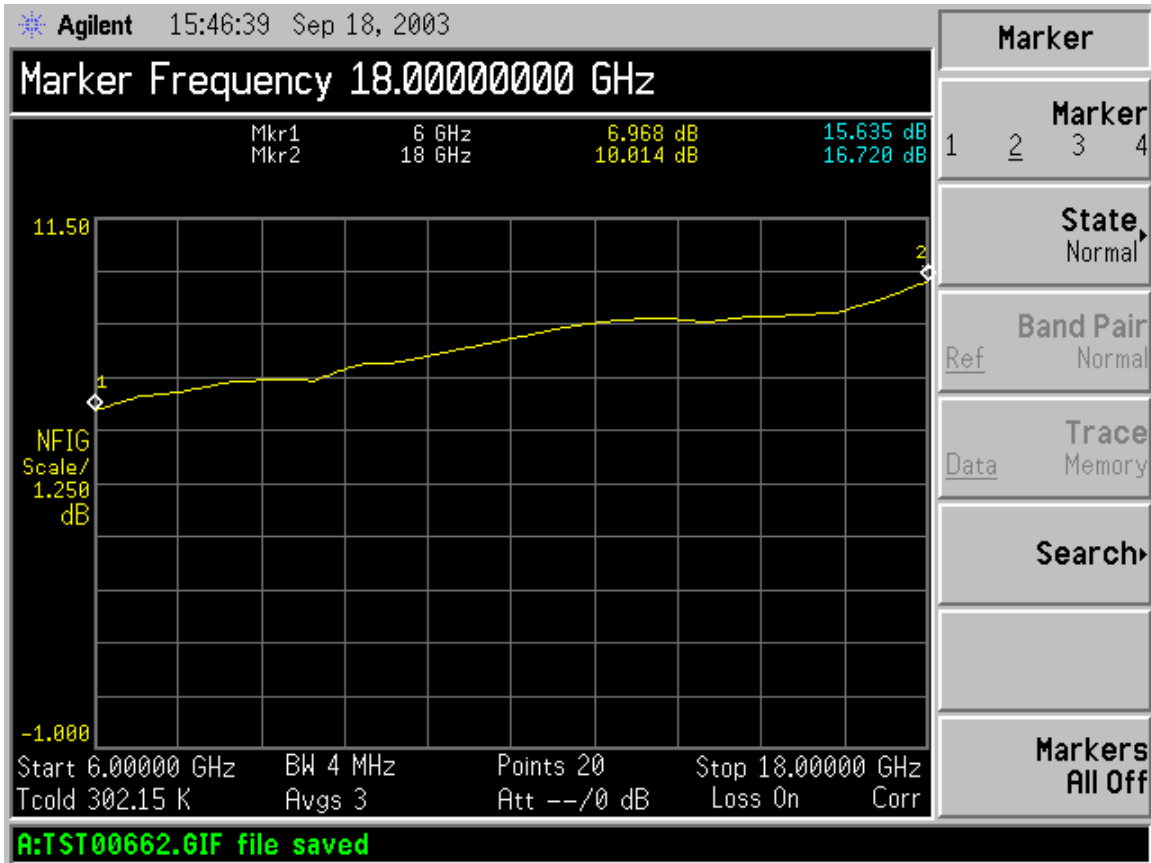
CH1	S21	LOG	4 dB/	REF 13 dB	2: 13.486 dB	6.750 000 000 GHz
CH2	S11	LOG	5 dB/	REF -9.54 dB	1: -12.959 dB	10.080 000 000 GHz
CH3	S22	LOG	5 dB/	REF -9.54 dB	1: -12.868 dB	12.045 000 000 GHz



Noise Figure Plot - J1 to J2



Noise Figure Plot - J1 to J3



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