



### SUMMARY TEST DATA ON AMPLIFIER

**Customer :**  
**Job No :**  
**Model No : PEC-25/15-618-15-SFF**  
**Serial No : PL868**

**Tested By : Kevin Mason**  
**Temperature : +25°C**  
**Date : 04/15/03**

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 ±1.65 dB J1-J3 ±1.59 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	13.2 to 18.0 dBm 15.6 to 18.2 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	361mA	

Production Manager Approval:  Date: 04/15/03

QA/QC Approval:  Date: 04/15/03

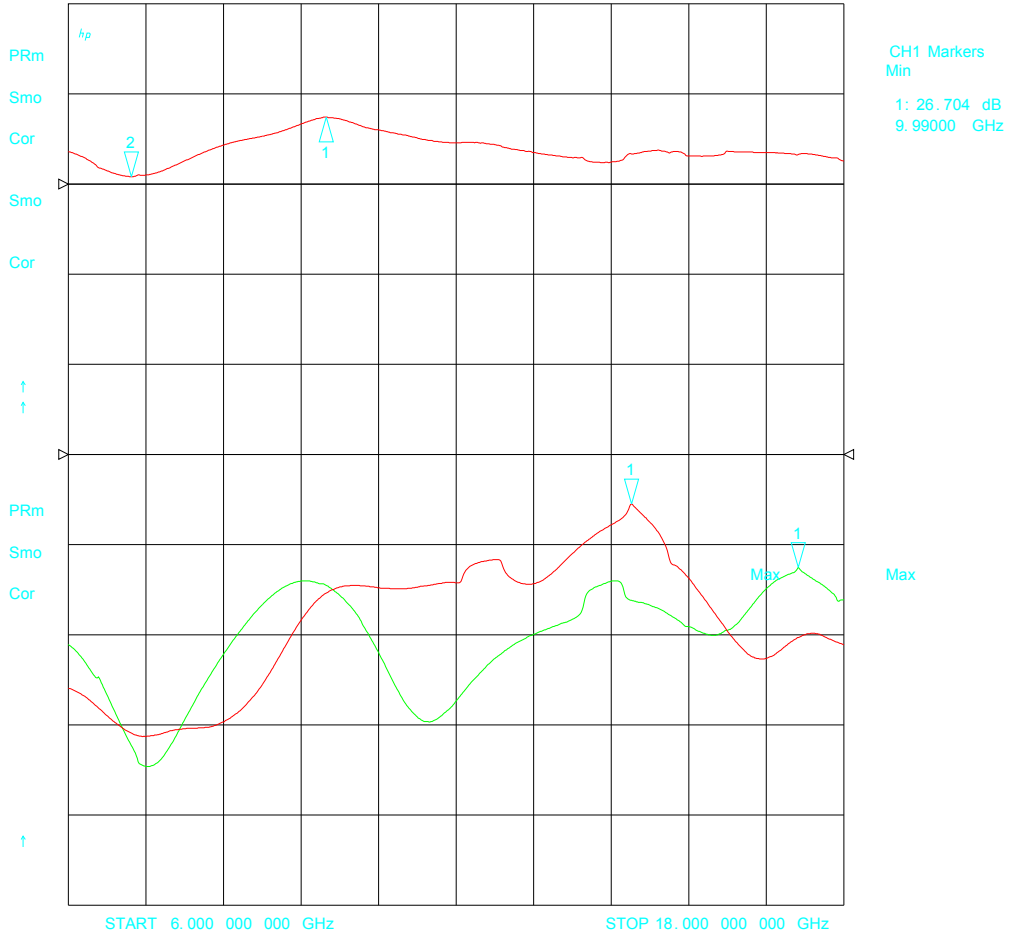
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email: [sales@planarelec.com](mailto:sales@planarelec.com)



### VNA Plot – J1 to J2

15 Apr 2003 14:44:46

CH1	S21	LOG	5 dB/	REF 23 dB	2: 23.407 dB	6.975 000 000 GHz
CH2	S11	LOG	5 dB/	REF -9.54 dB	1: -15.818 dB	17.295 000 000 GHz
CH3	S22	LOG	5 dB/	REF -9.54 dB	1: -12.284 dB	14.715 000 000 GHz

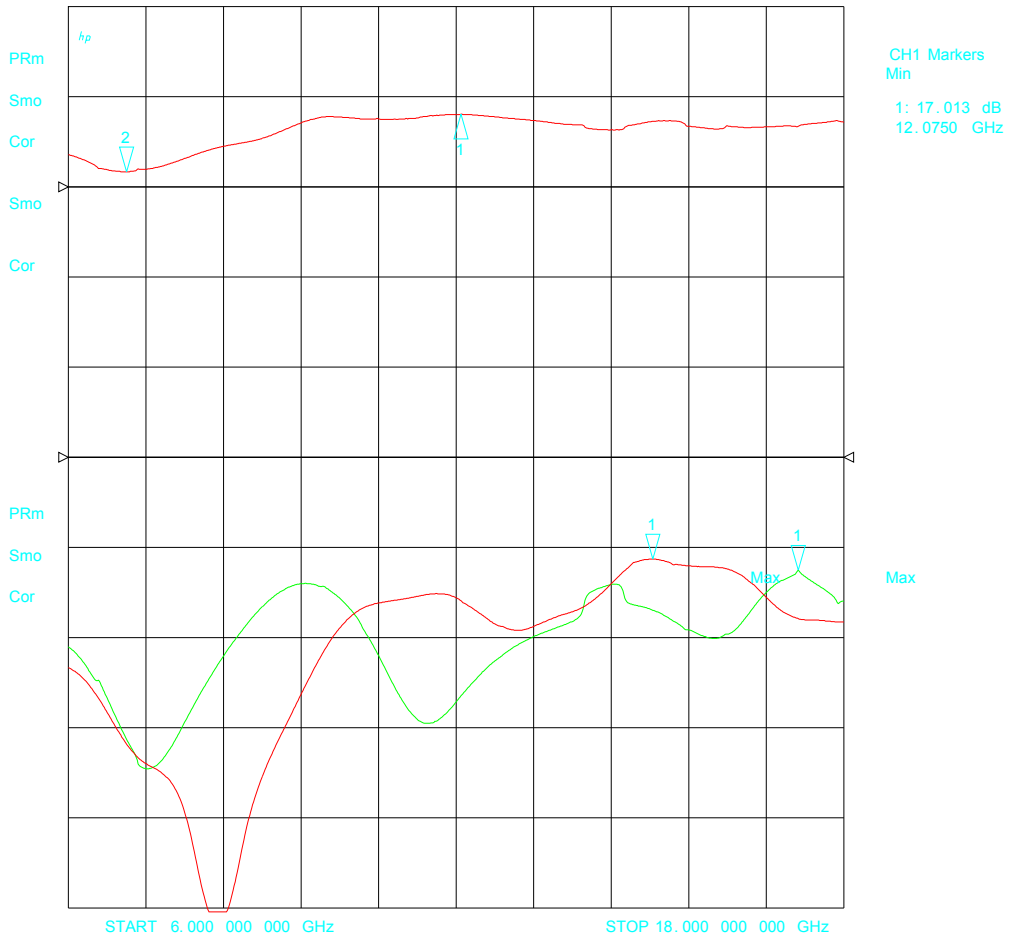


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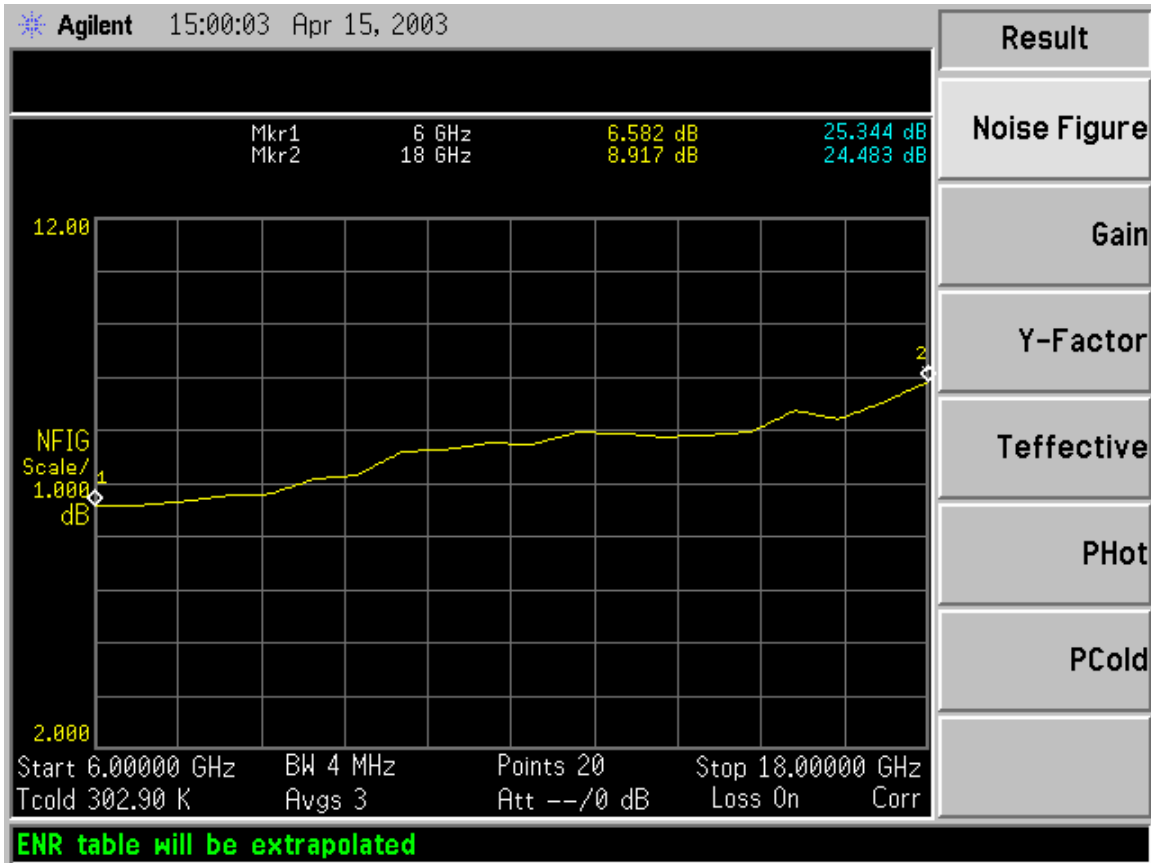
### VNA Plot – J1 to J3

15 Apr 2003 14:45:16

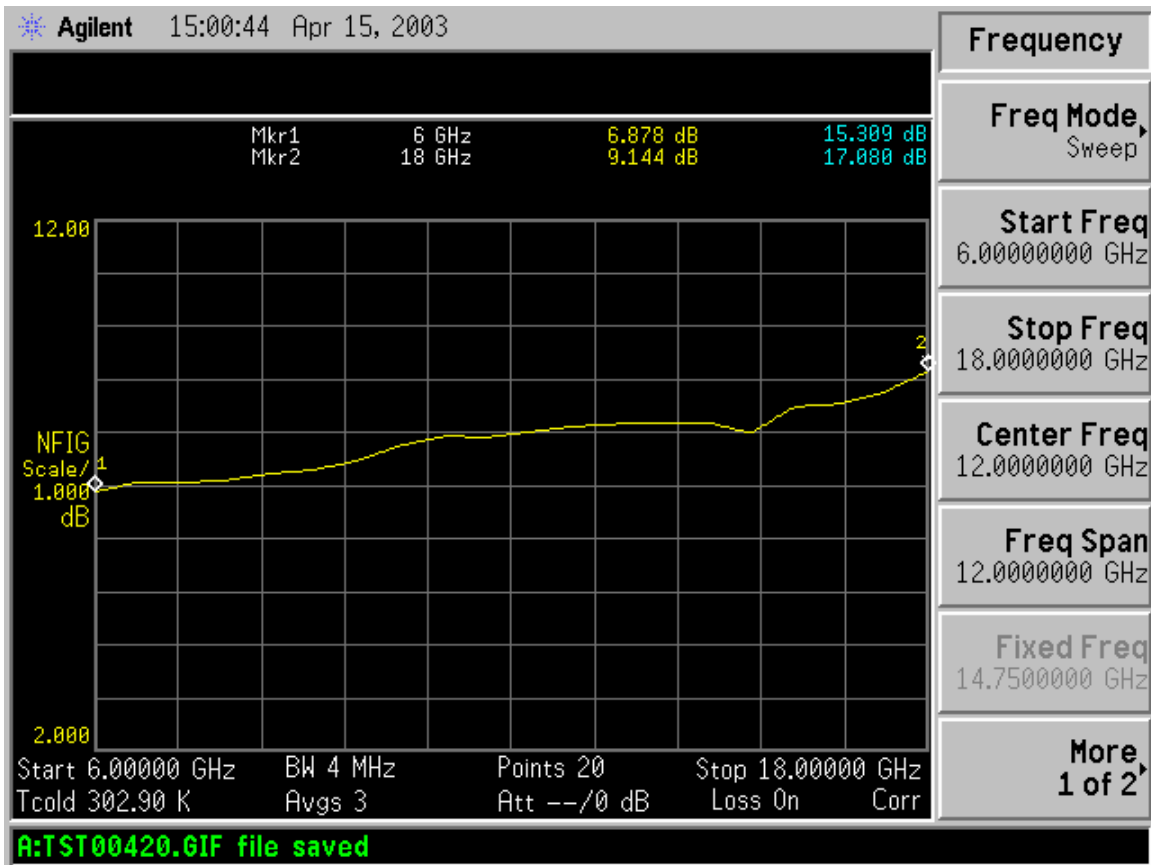
CH1	S21	LOG	5 dB/	REF 13 dB	2: 13.829 dB	6.900 000 000 GHz
CH2	S11	LOG	5 dB/	REF -9.54 dB	1: -15.811 dB	17.295 000 000 GHz
CH3	S22	LOG	5 dB/	REF -9.54 dB	1: -15.195 dB	15.045 000 000 GHz



### Noise Figure Plot - J1 to J2



### Noise Figure Plot - J1 to J3



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