



**SUMMARY TEST DATA  
ON AMPLIFIER**

Customer :  
 Job No :  
 Model No : PEC-38-818-10-15-SFF  
 Serial No : PL1155

Tested By : Kevin Mason  
 Temperature : +25°C  
 Date : 11/12/03

| TEST ITEM NO. | PARAMETERS                                | SPECIFIED VALUE   | MEASURED VALUE     | REMARKS QA/QC |
|---------------|---|-------------------|--------------------|---------------|
| 1             | Frequency Range:                          | 8 – 18 GHz        | Pass               |               |
| 2             | Gain:                                     | 38dB +/- 2.5dB    | Pass<br>(See Plot) |               |
| 3             | Gain Flatness:                            | ± 1.5 dB Max.     | ± 1.06dB           |               |
| 4             | Noise Figure:                             | 8.0 dB Max.       | Pass<br>(See Plot) |               |
| 5             | Output Power @<br>1dB Gain<br>Compression | +10dBm Min.       | ≥ +10dBm           |               |
| 6             | Power Output<br>Saturated                 | +19dBm Max.       | Pass               |               |
| 7             | VSWR In/Out:                              | 1.8:1 Max.        | Pass<br>(See Plot) |               |
| 8             | DC Power                                  | 500mA@+15 VDC     | 120mA              |               |
| 9             | Operating Temp.<br>Range                  | -15 to +85 Deg. C | Pass               |               |

Production Manager Approval:  Date: 11/12/03

QA/QC Approval:  Date: 11/12/03

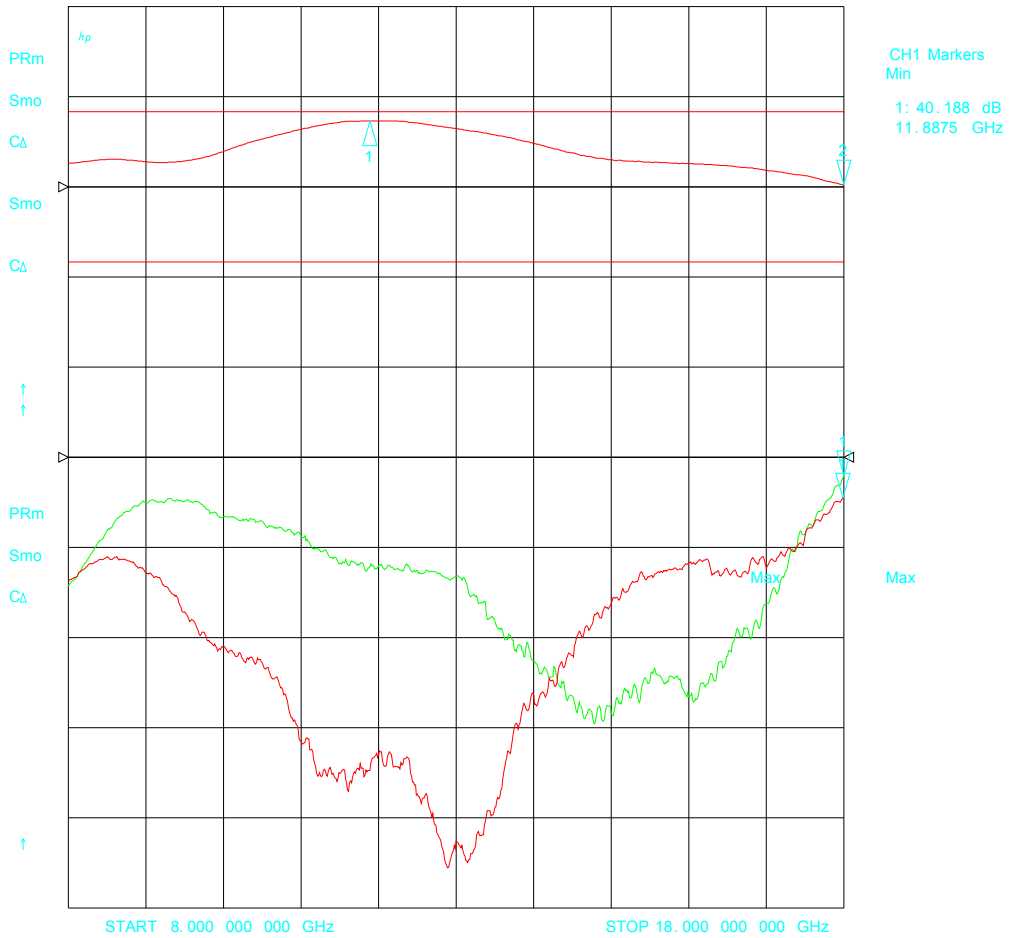
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### VNA Plot – J1 to J2

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|     |     |     |       |               |               |                    |
|-----|-----|-----|-------|---------------|---------------|--------------------|
| CH1 | S21 | LOG | 3 dB/ | REF 38 dB     | 2: 38.062 dB  | 18.000 000 000 GHz |
| CH2 | S11 | LOG | 5 dB/ | REF -10.88 dB | 1: -11.919 dB | 18.000 000 000 GHz |
| CH3 | S22 | LOG | 5 dB/ | REF -10.88 dB | 1: -13.143 dB | 17.987 500 000 GHz |



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### Noise Figure Plot - J1 to J2

