



Planar Monolithics Industries
 7311F-Grove Road, Frederick MD. 21704
 Tel: 301-662-5019 Fax: 301-662-1731
 www.pmi-rf.com
 ISO 9001:2000 CERTIFIED

FILTER DETECTOR - FINAL TEST DATA

| | |
|----------------------------------|------------------------------------|
| CUSTOMER: | TESTED BY: Hugo Gonzales |
| SO NO: | DATE: 7/22/2010 |
| MODEL NO: RFFD-618-730049 | SERIAL NO: PL7811 |
| OPTION NO: | FREQUENCY RANGE: 6 - 18 GHz |

| TEST ITEM | PARAMETERS | MEASURED VALUES | | | |
|-----------|-------------------------------------------------------------------------|-----------------|----|------------|-----|
| | | | | | |
| 1 | OPERATING FREQUENCY | 6 | to | 18 | GHz |
| 2 | INPUT RETURN LOSS | Pass | dB | See Plot | |
| 3 | FILTER REJECTION (>23dB 20-26.5GHz) | Pass | dB | See Plot | |
| 4 | VOLTAGE SENSITIVITY | 115.20 | mV | | |
| 5 | BARRIER POTENTIAL Detector Diode | 231.40 | mV | | |
| 6 | BARRIER POTENTIAL Balance Diode | 233.60 | mV | | |
| 7 | Detector Voltage: RF OFF | 231.40 | mV | | |
| 8 | Detector Voltage: -23 dBm at 12 GHz | 228.70 | mV | | |
| 9 | Detector Voltage: +7 dBm at 12 GHz | -210.10 | mV | | |
| 10 | Detector Voltage: +8 dBm at 12 GHz | -269.30 | mV | | |
| 11 | Frequency Response Slope (6 to 18GHz) | 1.95 | dB | Up Slope | dB |
| 11 | Frequency Response Ripple (6 to 18GHz) | 0.30 | dB | -0.35 | dB |
| 12 | Tracking Refer Test Item (5-6) | 2.20 | mV | Difference | |
| 13 | Detector protection diode 30mA including / excluding 15ohm voltage drop | 1305 | mV | 855 | mV |
| 14 | Balance protection diode 30mA including / excluding 15ohm voltage drop | 1313 | mV | 863 | mV |

| | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| TEST EQUIPMENT : | N5230A PNA (Agilent) , E3631A Power Supply (Agilent), 8541B Power meter (Gigatronics), 34410A Digital Multimeter (Agilent), Multimeter (EX-TECH) |
| QA / QC APPROVAL : | DATED: |



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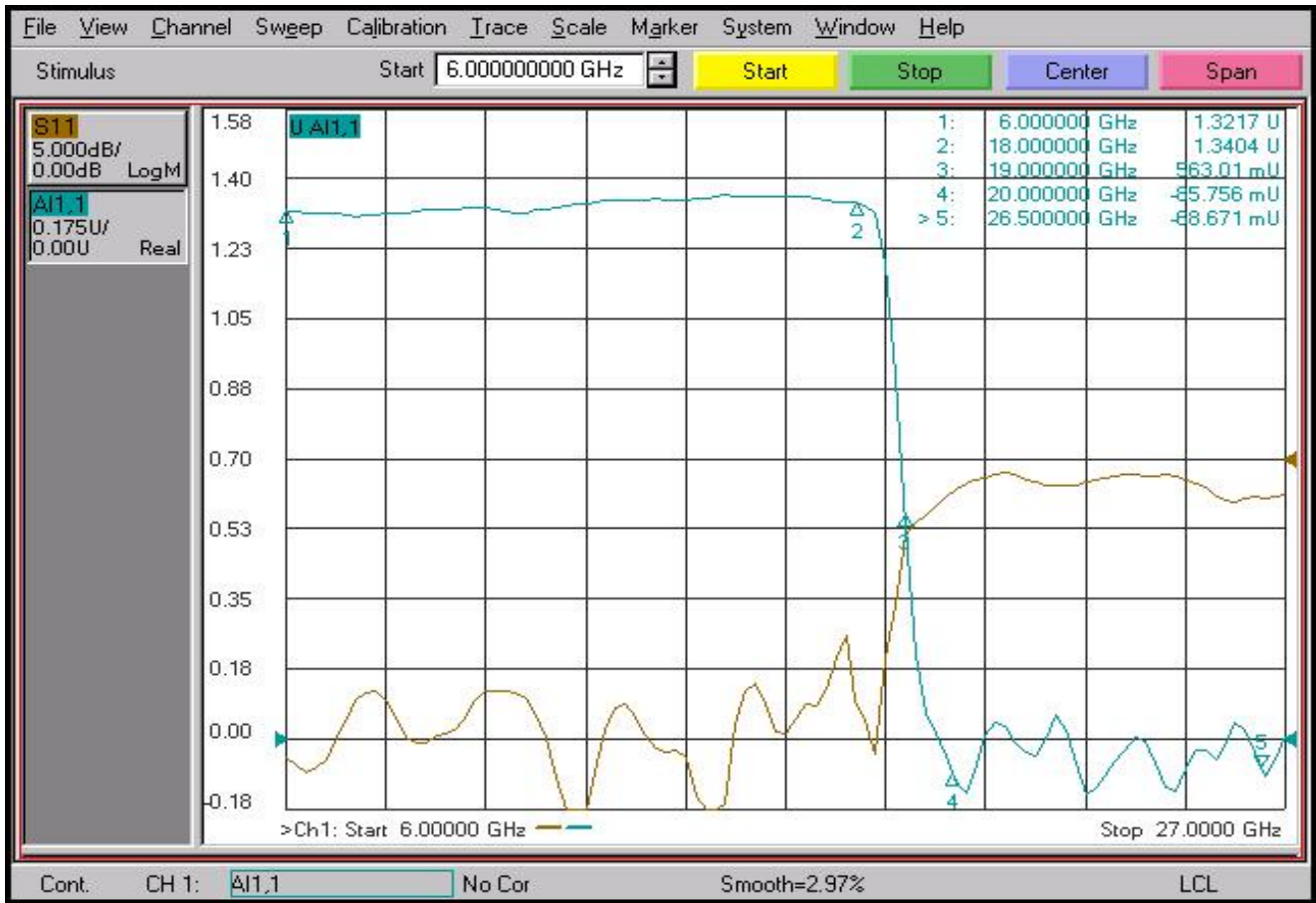
FILTER DETECTOR @ -5dBm Port Power





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FILTER DETECTOR @ -8dBm Port Power





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FILTER DETECTOR @ -28dBm Port Power

