

Communications

Amplifier Test Data Sheet

Model # AML618P3502

Serial # 101 Tested By J.R. Date 12-18-03

Example 13

Frequency	Gain *	Flatness	Input VSWR	Output VSWR	Noise Figure	P-1dB
6-18 GHz	35 dB Min	±2.5 dB Max	2.0:1 Max	2.0:1 Max	6.0 dB Max	+33 dBm Min
6.0	-----	-----	-----	-----	3.4	33.1
8.0	-----	-----	-----	-----	3.1	34.1
10.0	SEE	SEE	SEE	SEE	3.2	33.4
12.0	PRINTED	PRINTED	PRINTED	PRINTED	3.4	33.6
14.0	DATA	DATA	DATA	DATA	3.3	33.6
16.0	-----	-----	-----	-----	3.3	33.1
18.0	-----	-----	-----	-----	4.0	33.1

All Data and Specifications @ +25 °C
 Stability: **PASS** FAIL
 VDC +12 to +15
 DC current 3000 mA Max. Measured current: 1834 mA
 * INCLUDE PLOTTED DATA

QA [Signature] DATE 12/18/03

SPECIAL REQUIREMENT(S):

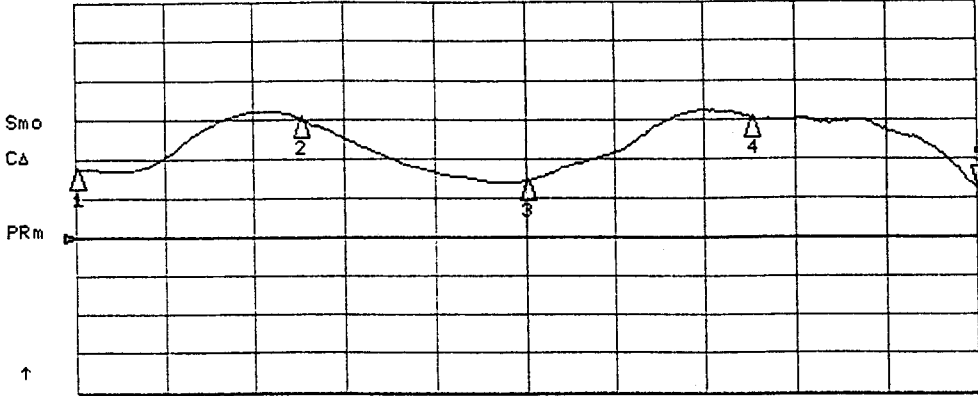
4/11/01

Model # AM1618P3502

J.R

18 Dec 2003 14:39:29

CH1 S21 LOG 2 dB/REF 35 dB 5: 37.521 dB 18.000 000 000 GHz

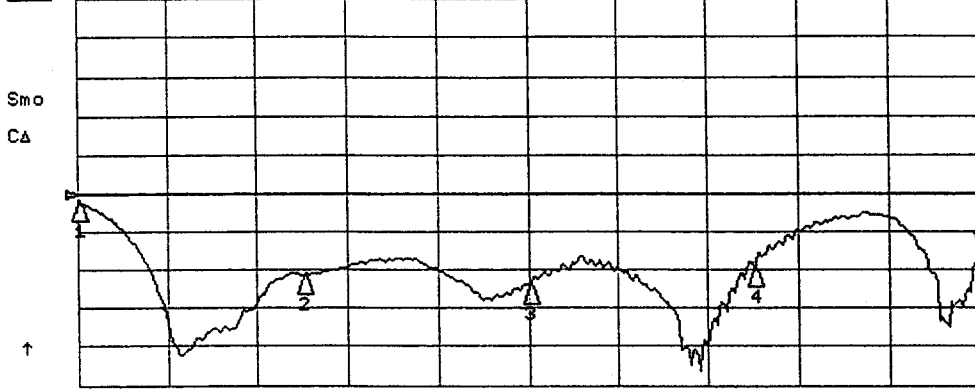


Gain @ +40°C

CH1 Markers

- 1: 38.434 dB
6.00120 GHz
- 2: 41.036 dB
9.00000 GHz
- 3: 37.885 dB
12.0000 GHz
- 4: 41.105 dB
15.0000 GHz

CH3 S11 LOG 5 dB/REF -9.5 dB 5: -17.269 dB 18.000 000 000 GHz



INPUT Return loss

CH3 Markers

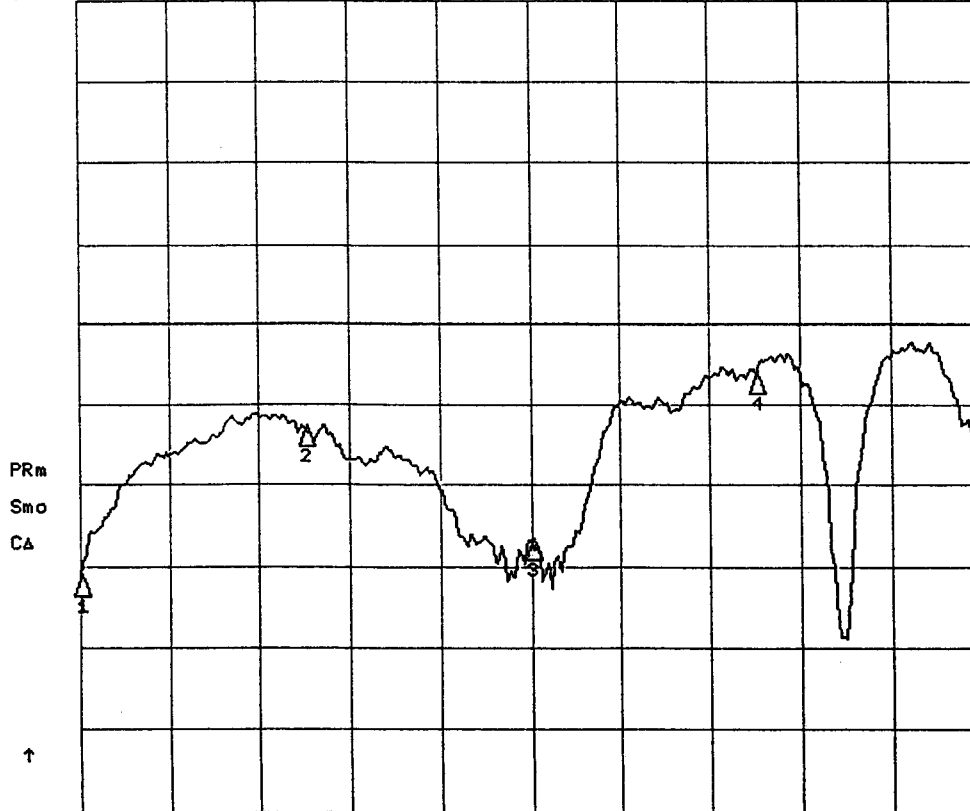
- 1: -10.557 dB
6.00120 GHz
- 2: -20.321 dB
9.00000 GHz
- 3: -21.551 dB
12.0000 GHz
- 4: -19.113 dB
15.0000 GHz

START 6.000 000 000 GHz

STOP 18.000 000 000 GHz

18 Dec 2003 14:40:15

CH2 S22 LOG 5.005 dB/REF -9.5 dB 5: -14.332 dB 18.000 000 000 GHz



OUTPUT Return loss

CH2 Markers

- 1: -25.860 dB
6.00120 GHz
- 2: -15.887 dB
9.00000 GHz
- 3: -22.911 dB
12.0000 GHz
- 4: -12.597 dB
15.0000 GHz

START 6.000 000 000 GHz

STOP 18.000 000 000 GHz



Communications

Amplifier Test Data Sheet

Model # AML618P3502

Serial # 102 Tested By J.R Date 12-18-03

Frequency GHz	Gain *	Flatness dB Max	Input VSWR Max	Output VSWR Max	Noise Figure dB Max	P-1dB dBm Min
6-18	35	±2.5	2.0:1	2.0:1	6.0	+33
6.0	-----	-----	-----	-----	3.2	33.4
8.0	-----	-----	-----	-----	2.9	34.4
10.0	SEE	SEE	SEE	SEE	3.1	33.7
12.0	PRINTED	PRINTED	PRINTED	PRINTED	3.3	33.6
14.0	DATA	DATA	DATA	DATA	3.4	33.1
16.0	-----	-----	-----	-----	3.2	34.2
18.0	-----	-----	-----	-----	3.6	33.2

All Data and Specifications @ +25 °C
 Stability: PASS / FAIL
 VDC +12 to +15
 DC current 3000 mA Max. Measured current: 1847 mA
 * INCLUDE PLOTTED DATA

QA [Signature] DATE 12/18/03

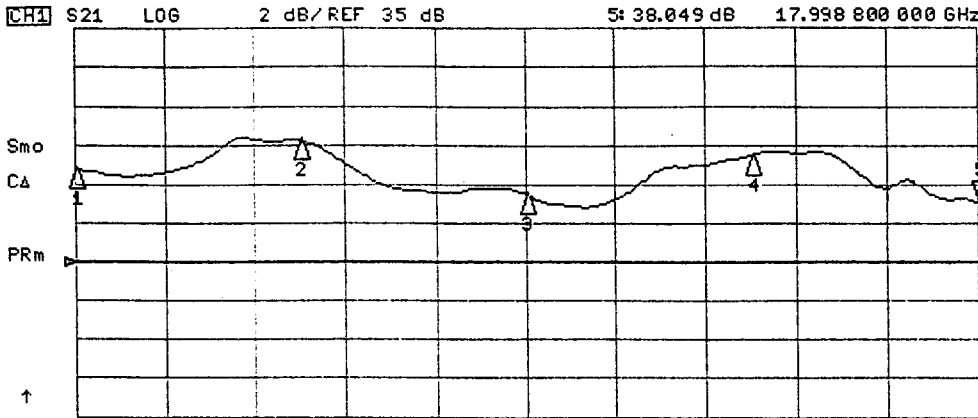
SPECIAL REQUIREMENT(S):

9/2102

Model # AM2618P3502

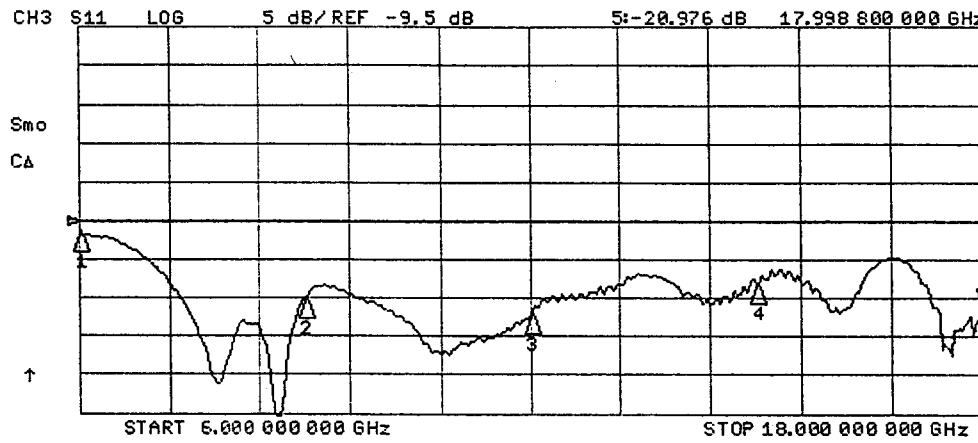
1 R

18 Dec 2003 16:31:58



Gain @ +400°

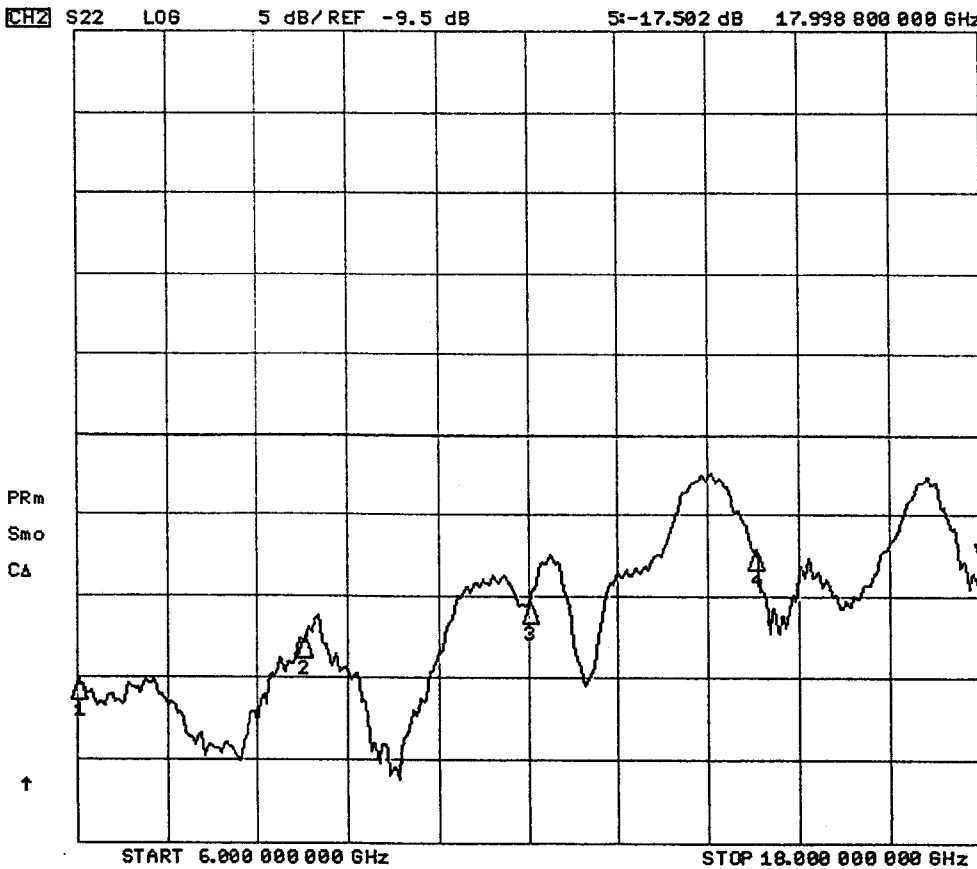
- CH1 Markers
- 1: 39.756 dB
6.00000 GHz
 - 2: 41.228 dB
9.00000 GHz
 - 3: 38.482 dB
12.00000 GHz
 - 4: 40.491 dB
15.00000 GHz



INPUT Return loss

- CH3 Markers
- 1: -11.147 dB
6.00000 GHz
 - 2: -19.687 dB
9.00000 GHz
 - 3: -21.699 dB
12.00000 GHz
 - 4: -17.794 dB
15.00000 GHz

18 Dec 2003 16:32:27



OUTPUT Return loss

- CH2 Markers
- 1: -24.727 dB
6.00000 GHz
 - 2: -22.065 dB
9.00000 GHz
 - 3: -20.046 dB
12.00000 GHz
 - 4: -16.738 dB
15.00000 GHz



Communications

Amplifier Test Data Sheet

Model # AML618P3502

Serial # 104 Tested By J.R. Date 12-18-03

Frequency GHz	Gain *	Flatness dB Min dB Max	Input VSWR Max	Output VSWR Max	Noise Figure dB Max	P-1dB dBm Min
6-18	35	±2.5	2.0:1	2.0:1	6.0	+33
6.0	-----	-----	-----	-----	2.9	33.3
8.0	-----	-----	-----	-----	2.9	34.6
10.0	SEE	SEE	SEE	SEE	2.9	34.0
12.0	PRINTED	PRINTED	PRINTED	PRINTED	3.1	34.0
14.0	DATA	DATA	DATA	DATA	3.1	34.3
16.0	-----	-----	-----	-----	3.3	33.5
18.0	-----	-----	-----	-----	3.5	33.5

All Data and Specifications @ +25 °C
 Stability: **PASS** / FAIL
 VDC +12 to +15
 DC current 3000 mA Max. Measured current: 1832 mA
 * INCLUDE PLOTTED DATA

QA [Signature] DATE 12/18/03

SPECIAL REQUIREMENT(S):

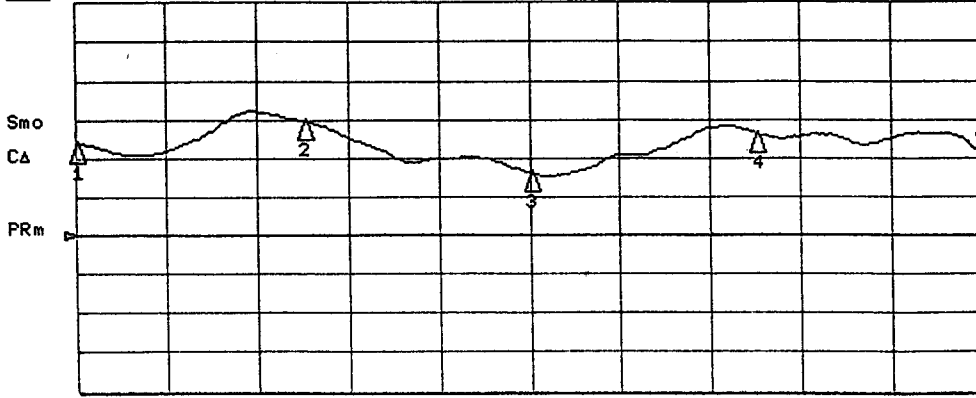
S/N 104

Model # AML618P3502

J.R

18 Dec 2003 15:32:32

CH1 S21 LOG 2 dB/REF 35 dB 5: 39.151 dB 18.000 000 000 GHz

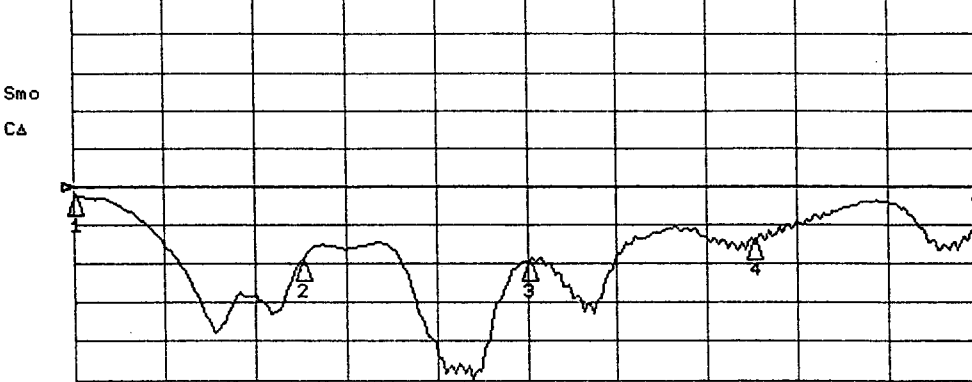


Gain @ +40°C

CH1 Markers

- 1: 39.775 dB
6.00120 GHz
- 2: 40.980 dB
9.00000 GHz
- 3: 38.252 dB
12.00000 GHz
- 4: 40.306 dB
15.00000 GHz

CH3 S11 LOG 5 dB/REF -9.5 dB 5: -13.701 dB 18.000 000 000 GHz



INPUT Return loss

CH3 Markers

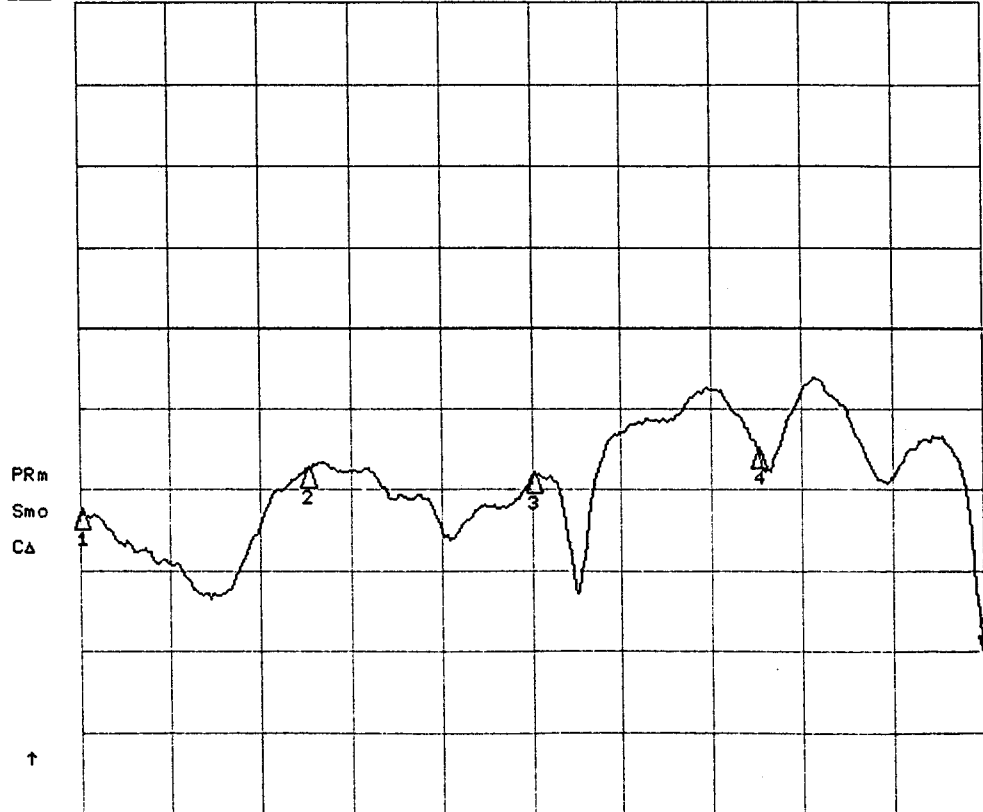
- 1: -10.664 dB
6.00120 GHz
- 2: -19.191 dB
9.00000 GHz
- 3: -19.281 dB
12.00000 GHz
- 4: -16.452 dB
15.00000 GHz

START 5.000 000 000 GHz

STOP 18.000 000 000 GHz

18 Dec 2003 15:33:20

CH2 S22 LOG 5.005 dB/REF -9.5 dB 5: -29.873 dB 18.000 000 000 GHz



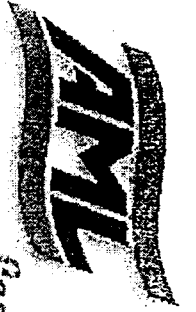
OUTPUT Return loss

CH2 Markers

- 1: -20.788 dB
6.00120 GHz
- 2: -19.171 dB
9.00000 GHz
- 3: -18.578 dB
12.00000 GHz
- 4: -16.996 dB
15.00000 GHz

START 5.000 000 000 GHz

STOP 18.000 000 000 GHz



COMMUNICATIONS

Amplifier Test Data Sheet

Model # **AML618P3502**

Serial # 103 Tested By J.R. Date 12-18-03

Frequency	Gain *	Flatness	Input VSWR	Output VSWR	Noise Figure	P-1dB
6-18 GHz	35 dB Min	±2.5 dB Max	2.0:1 Max	2.0:1 Max	6.0 dB Max	+33 dBm Min
6.0	-----	-----	-----	-----	3.3	33.3
8.0	-----	-----	-----	-----	3.2	34.2
10.0	SEE	SEE	SEE	SEE	3.4	33.7
12.0	PRINTED	PRINTED	PRINTED	PRINTED	3.5	33.4
14.0	DATA	DATA	DATA	DATA	3.7	33.8
16.0	-----	-----	-----	-----	3.9	33.7
18.0	-----	-----	-----	-----	4.0	33.5

All Data and Specifications @ +25 °C
 Stability: **PASS** / FAIL
 VDC +12 to +15
 DC current 3000 mA Max. Measured current: 1804 mA
 * INCLUDE PLOTTED DATA

QA  DATE 12/18/03

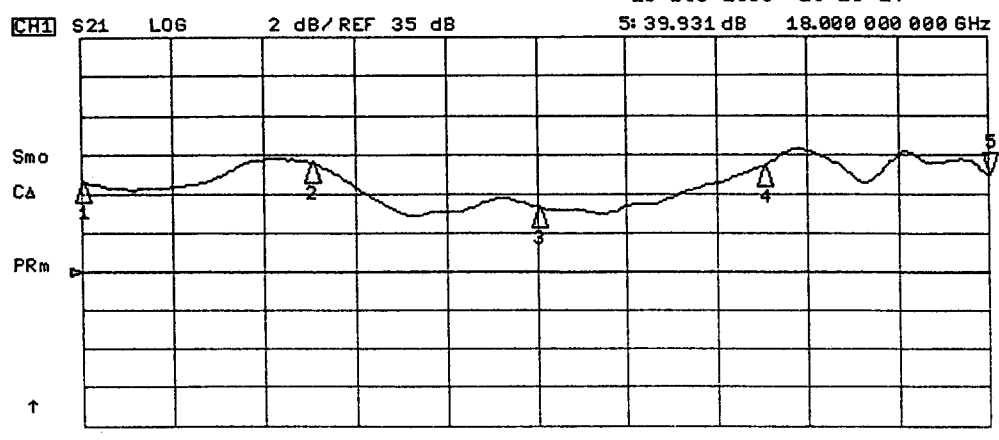
SPECIAL REQUIREMENT(S):

9/1/03

Model # AML 615 P 3502

J.R

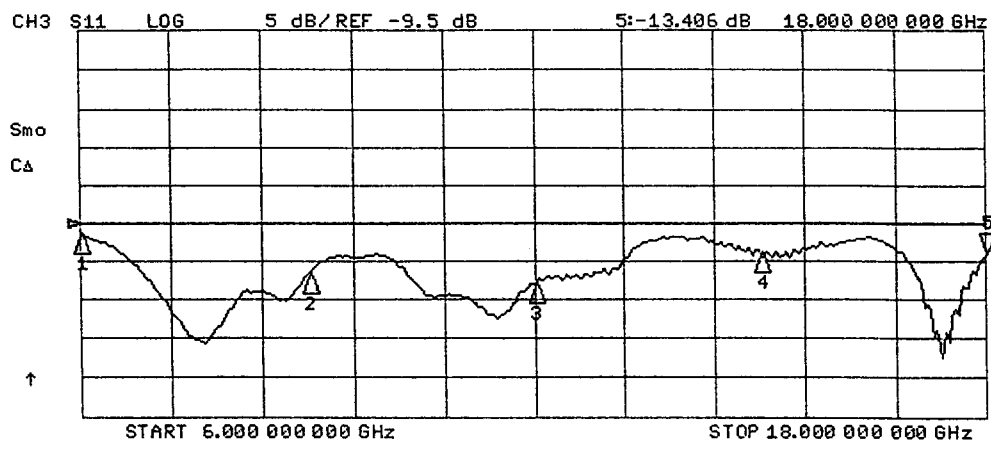
18 Dec 2003 16:29:24



Gain @ +40C

CH1 Markers

1:	39.556 dB	6.00000 GHz
2:	40.606 dB	9.00000 GHz
3:	38.326 dB	12.00000 GHz
4:	40.401 dB	15.00000 GHz

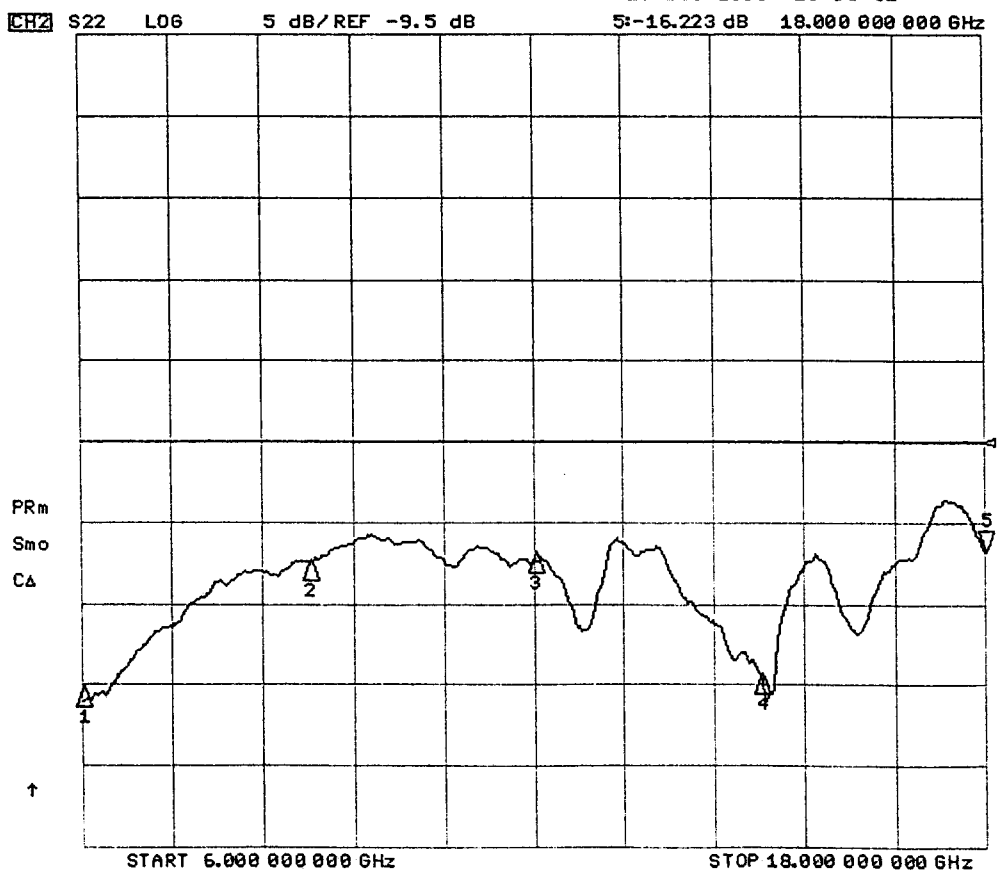


INPUT Return loss

CH3 Markers

1:	-11.167 dB	6.00000 GHz
2:	-16.215 dB	9.00000 GHz
3:	-17.375 dB	12.00000 GHz
4:	-13.490 dB	15.00000 GHz

18 Dec 2003 16:30:01



OUTPUT Return loss

CH2 Markers

1:	-24.679 dB	6.00000 GHz
2:	-16.844 dB	9.00000 GHz
3:	-16.333 dB	12.00000 GHz
4:	-23.844 dB	15.00000 GHz