



Communications

# Amplifier Test Data Sheet

Model # AML722P2801

Serial # 101 Tested By FJA Date 7-30-03

Example 16

| Frequency<br>GHz | Gain * | Flatness<br>dB Max | Input<br>VSWR<br>Nom | Output<br>VSWR<br>Nom | Noise Figure<br>dB Max | P-1dB<br>dBm Min | IP3 |
|------------------|--------|--------------------|----------------------|-----------------------|------------------------|------------------|-----|
| 7-22             | 28     | ±1.75              | 2.2:1                | 2.2:1                 | 5.0                    | +20              | N/A |
| 7                | ↑      | ↑                  | ↑                    | ↑                     | 3.3                    | 22.8             |     |
| 8                | ↑      | ↑                  | ↑                    | ↑                     | 3.4                    | 22.9             |     |
| 10               |        |                    |                      |                       | 3.3                    | 24.6             |     |
| 12               | SEE    | PLOT               | SEE                  | PLOT                  | 3.6                    | 23.8             |     |
| 14               |        |                    |                      |                       | 3.9                    | 23.6             |     |
| 16               |        |                    |                      |                       | 3.8                    | 22.8             |     |
| 18               |        |                    |                      |                       | 3.8                    | 20.7             |     |
| 20               | ↓      | ↓                  | ↓                    | ↓                     | 3.6                    | 22.7             |     |
| 22               |        |                    |                      |                       | 3.6                    | 21.1             |     |

All Data and Specifications @ +25 °C

Stability: PASS / FAIL

VDC +12 to +15 DC current TBDmA Nom. Measured current: 375 mA

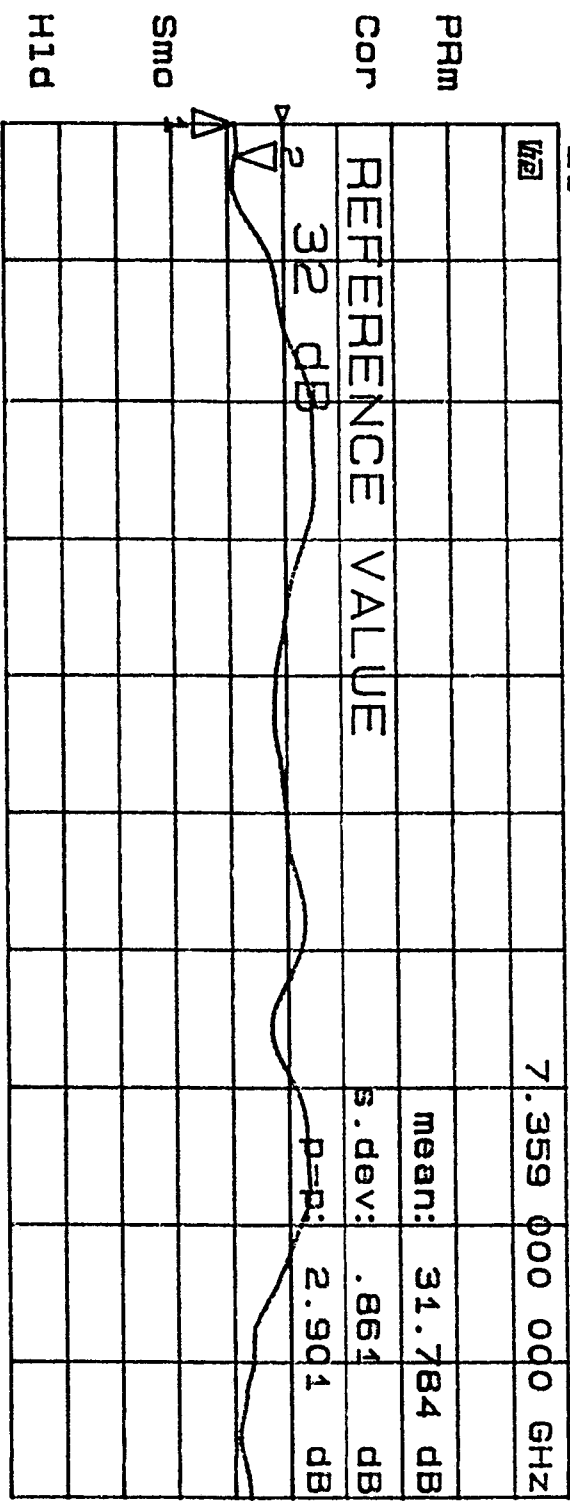
\* INCLUDE PLOTTED DATA

QA \_\_\_\_\_ DATE \_\_\_\_\_

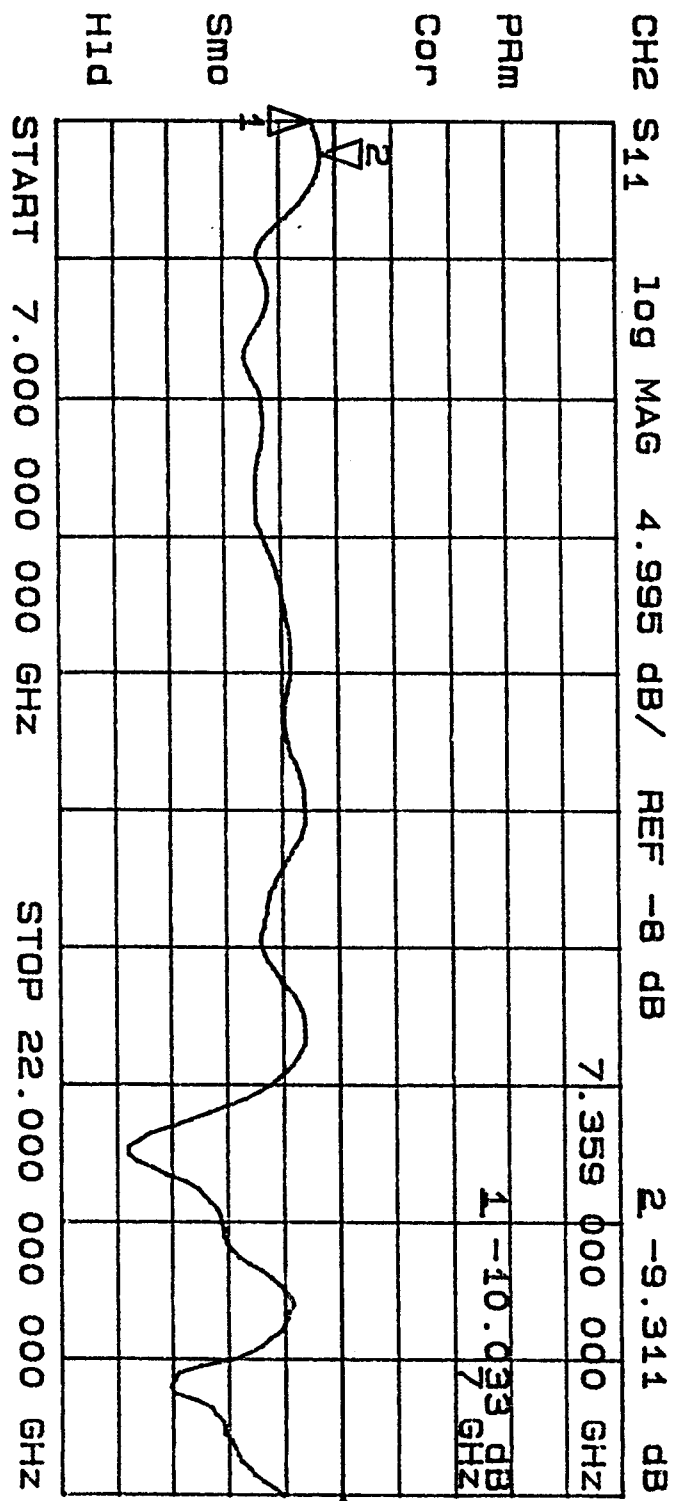
SPECIAL REQUIREMENT(S):

CH1 S21 10g MAG 2 dB/ REF 32 DB 30 Jul 2003 15:53:15  
 2: 30.264 DB

S/N 101



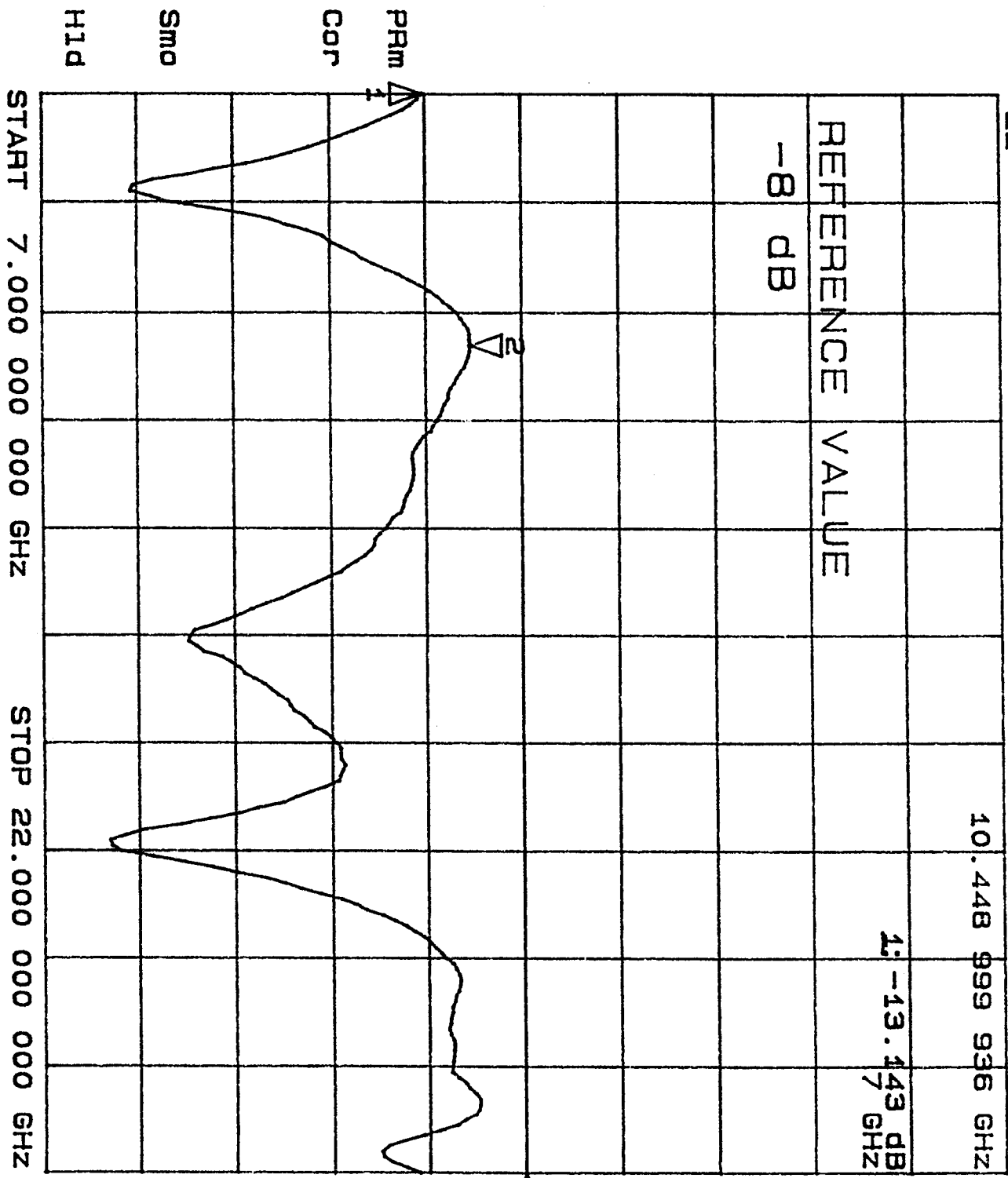
gain



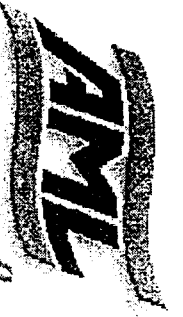
INPUT  
 VSWR

CH2 S22 10g MAG 4.995 dB/ REF -8 dB 30 Jul 2003 15:56:56  
 2: -10.709 dB

S/N 101



OUTPUT  
VSWR



Communications

# Amplifier Test Data Sheet

Model # AML722P2801

Serial # 102 Tested By PA Date 7-30-03

| Frequency<br>GHz | Gain * | Flatness<br>dB Max | Input<br>VSWR<br>Nom | Output<br>VSWR<br>Nom | Noise Figure<br>dB Max | P-1dB<br>dBm Min | IP3 |
|------------------|--------|--------------------|----------------------|-----------------------|------------------------|------------------|-----|
| 7-22             | 28     | ±1.75              | 2.2:1                | 2.2:1                 | 5.0                    | +20              | N/A |
| 7                | ↑      | ↑                  | ↑                    | ↑                     | 2.9                    | 22.5             | ↑   |
| 8                | ↑      | ↑                  | ↑                    | ↑                     | 2.8                    | 23.5             | ↑   |
| 10               | ↑      | ↑                  | ↑                    | ↑                     | 2.9                    | 24.4             | ↑   |
| 12               | ↑      | ↑                  | ↑                    | ↑                     | 3.5                    | 22.7             | ↑   |
| 14               | SEE    | Plot               | SEE                  | Plot                  | 3.9                    | 22.1             | ↑   |
| 16               | ↑      | ↑                  | ↑                    | ↑                     | 3.8                    | 22.4             | ↑   |
| 18               | ↑      | ↑                  | ↑                    | ↑                     | 3.6                    | 22.1             | ↑   |
| 20               | ↑      | ↑                  | ↑                    | ↑                     | 3.5                    | 20.7             | ↑   |
| 22               | ↑      | ↑                  | ↑                    | ↑                     | 3.7                    | 20.3             | ↑   |

All Data and Specifications @ +25 °C

Stability: PASS / FAIL

VDC +12 to +15

DC current TBD mA Nom. Measured current: 330 mA

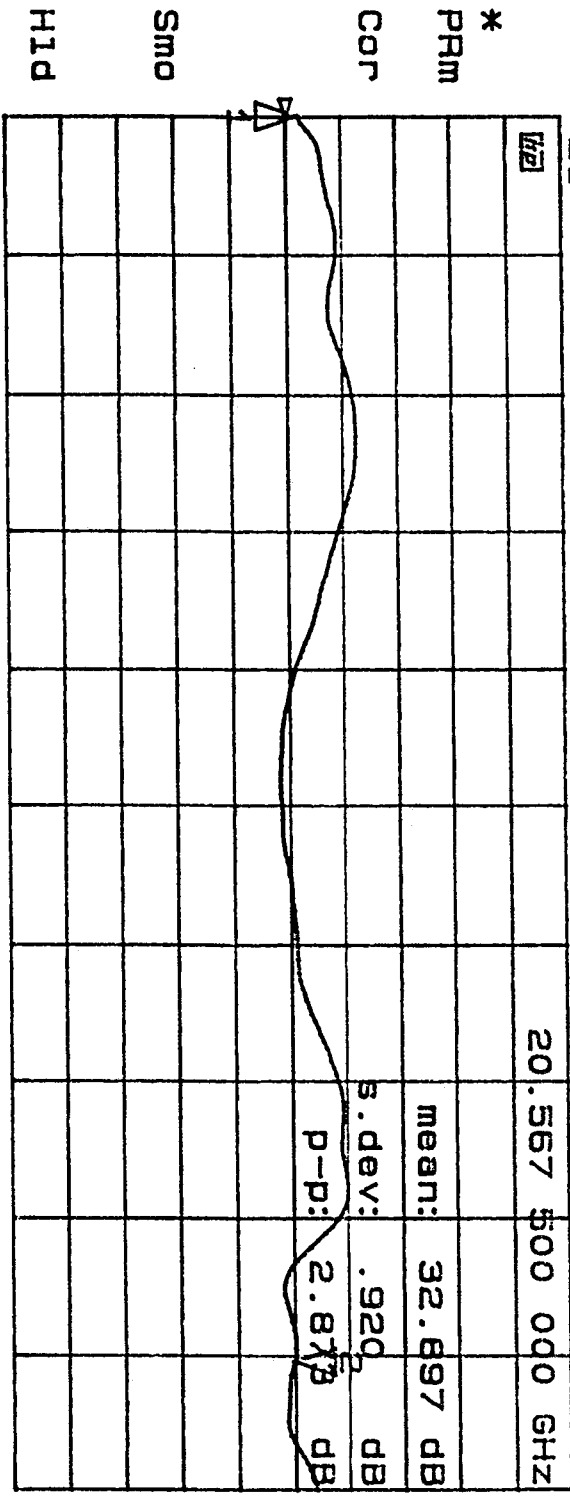
\* INCLUDE PLOTTED DATA

QA QA2 DATE 7/30/03

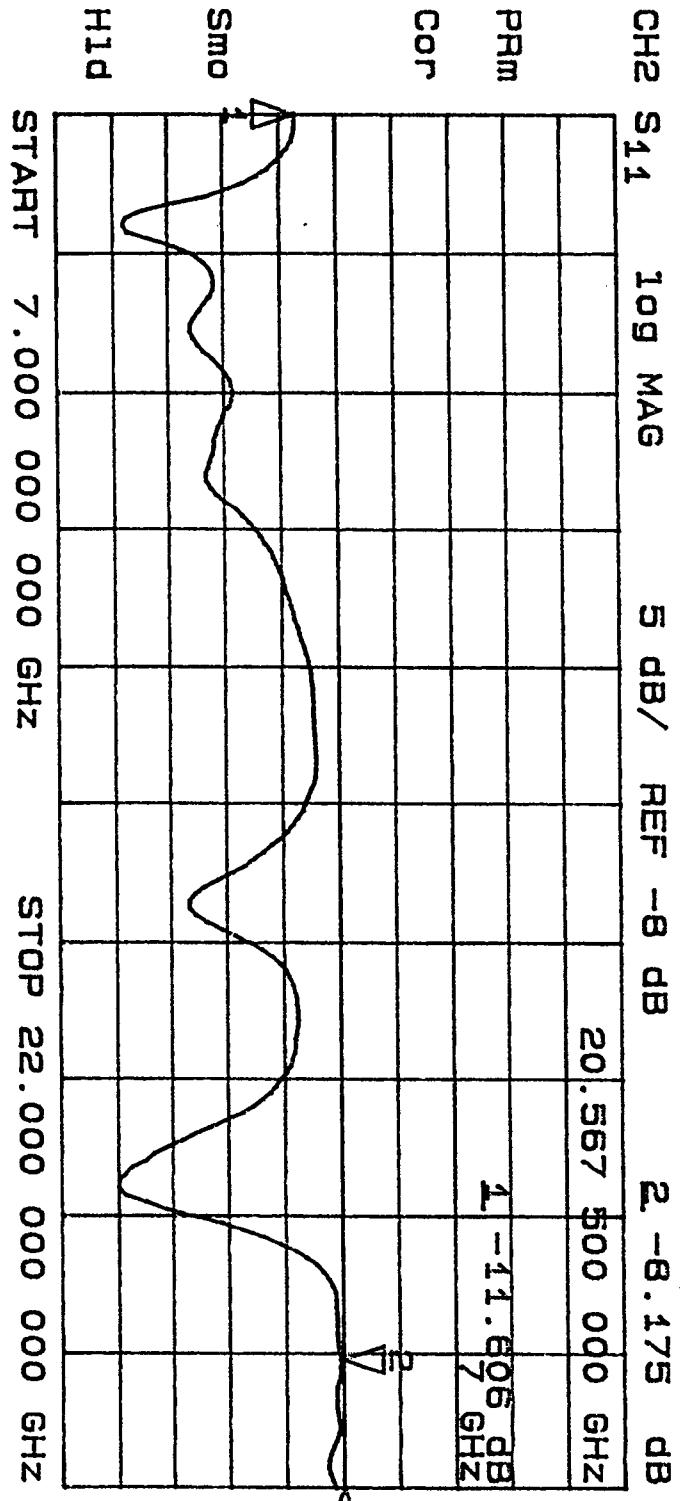
SPECIAL REQUIREMENT(S):

CH1 S21 10g MAG 2 DB/ REF 32 DB 30 JUL 2003 15: 16: 49

S/N 102



gain



INPUT  
VSWR

CH2 S22 10g MAG 5 dB/ REF -8 dB 30 Jul 2003 15:21:00

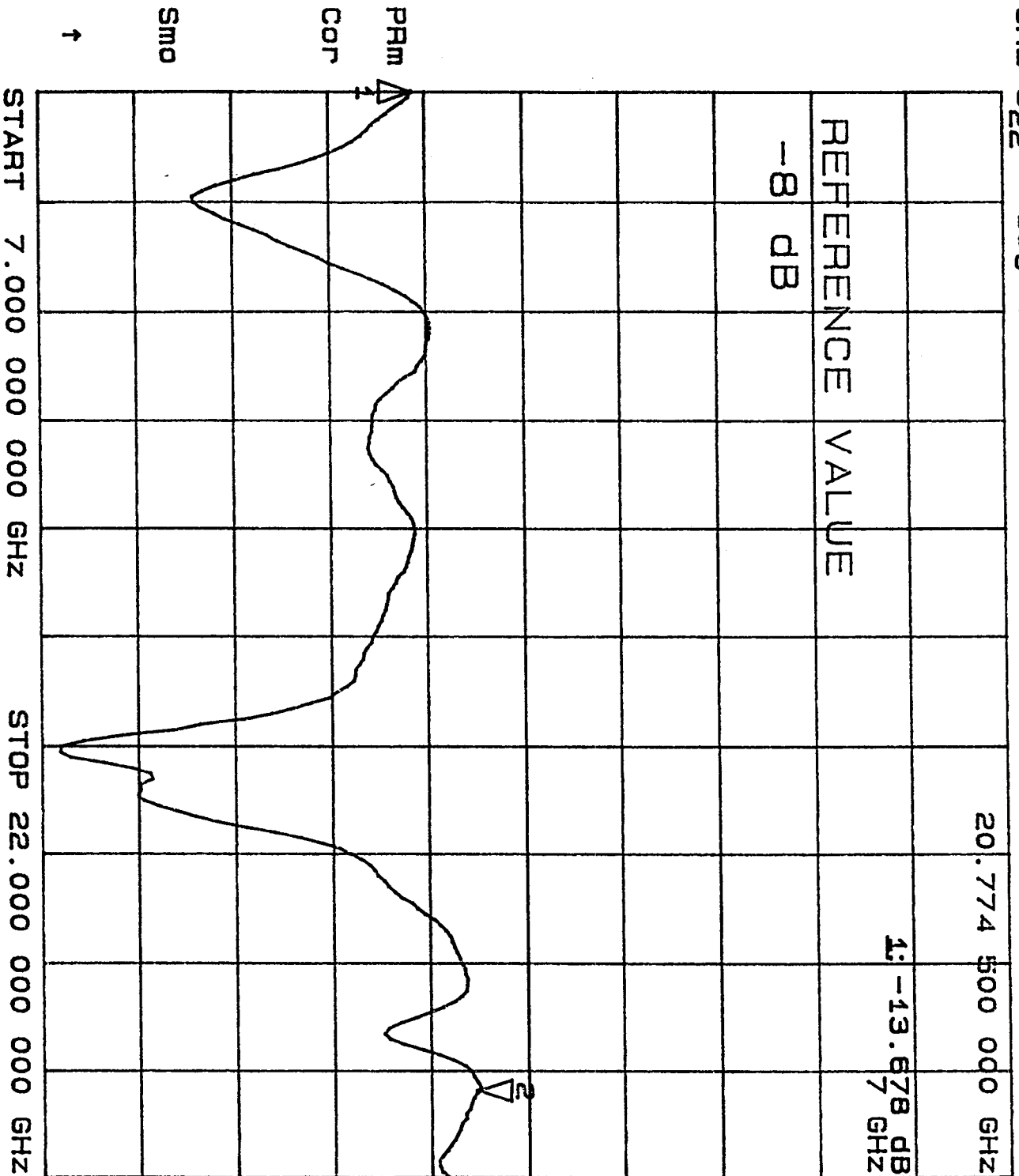
S/N 102

20.774 500 000 GHz

1: -13.878 dB  
7 GHz

REFERENCE VALUE

-8 dB



OUTPUT  
Vswe