

LOG TRANSFER WITH FREQUENCY @ +25 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL5456  
 TESTED BY: B. BAKER  
 DATE: 24/MARCH/2008



PLANAR MONOLITHICS INDUSTRIES  
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA  
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 URL: WWW.PLANARMONOLITHICS.COM  
 EMAIL: SALES@PLANARMONOLITHICS.COM  
 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV)    1628  
 SLOPE (mV/dB)    28.5  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1560  
 SLOPE (mV/dB)    27.08  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1461  
 SLOPE (mV/dB)    25.35  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.95  
 LINEARITY(-65 TO +5dBm)    ± 1.04  
 FREQUENCY FLATNESS    ± 3.35

|                              | -65    | -60    | -55    | -50    | -45    | -40    | -35    | -30    | -25    | -20    | -15    | -10    | -5     | 0      | 5      | RF Input Power (dBm)    |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------|
| 0.30 Measured Value (mV)     | -217   | -84    | 55     | 214    | 332    | 493    | 630    | 765    | 916    | 1058   | 1190   | 1355   | 1480   | 1645   | 1761   | Measured Value (mV)     |
| 0.30 Error (mV)              | 8      | -2     | -5     | 11     | -13    | 5      | 0      | -7     | 1      | 0      | -11    | 12     | -5     | 17     | -9     | Error (mV)              |
| 0.30 Limited If Output (dBm) | -16.40 | -16.01 | -15.90 | -15.83 | -15.79 | -15.75 | -15.74 | -15.73 | -15.73 | -15.73 | -15.73 | -15.74 | -15.75 | -15.75 | -15.76 | Limited If Output (dBm) |
| 0.55 Measured Value (mV)     | -186   | -66    | 65     | 210    | 326    | 480    | 610    | 739    | 884    | 1017   | 1142   | 1301   | 1420   | 1573   | 1692   | Measured Value (mV)     |
| 0.55 Error (mV)              | 14     | -1     | -5     | 5      | -15    | 3      | -1     | -8     | 1      | -1     | -11    | 12     | -4     | 14     | -3     | Error (mV)              |
| 0.55 Limited If Output (dBm) | -16.32 | -16.08 | -15.96 | -15.87 | -15.81 | -15.80 | -15.83 | -15.84 | -15.84 | -15.85 | -15.85 | -15.85 | -15.85 | -15.86 | -15.87 | Limited If Output (dBm) |
| 0.80 Measured Value (mV)     | -160   | -48    | 67     | 192    | 296    | 440    | 566    | 686    | 824    | 950    | 1070   | 1219   | 1333   | 1481   | 1594   | Measured Value (mV)     |
| 0.80 Error (mV)              | 26     | 12     | 0      | -1     | -24    | -7     | -8     | -14    | -3     | -4     | -11    | 11     | -1     | 20     | 6      | Error (mV)              |
| 0.80 Limited If Output (dBm) | -16.17 | -15.97 | -15.90 | -15.87 | -15.82 | -15.77 | -15.80 | -15.82 | -15.84 | -15.85 | -15.85 | -15.84 | -15.84 | -15.85 | -15.87 | Limited If Output (dBm) |

TSS    25C  
 -65dBm MAX    -67dBm

OUTPUT VOLTAGE    25C  
 2.7V MAX    2.63 V

INPUT VSWR  
 2:1 MAX @ 25C    1.18:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C    1.35:1

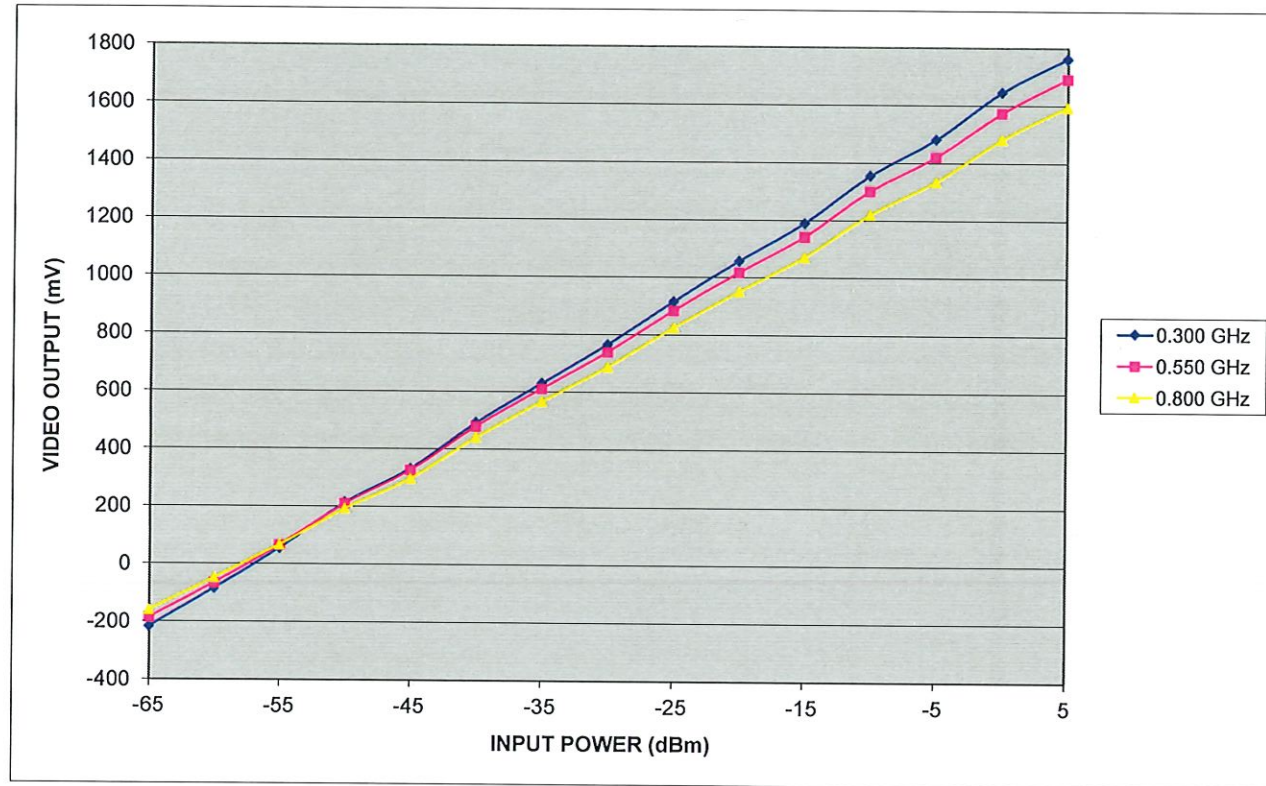
VIDEO RISE TIME  
 25 nS MAX @ 25C    24 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C    46 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C    34 nS

+5 V @ 70 mA MAX    16 mA

-5.2 V @ 200 mA MAX    121 mA



LIMITED IF OUTPUT MAX    -15.73 dBm  
 LIMITED IF OUTPUT MIN    -16.40 dBm  
 LIMITED IF FLATNESS    ± 0.34 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL5456  
 TESTED BY: B. BAKER  
 DATE: 24/MARCH/2008



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Frequency

0.30 INTERCEPT (mV)    1454  
 SLOPE (mV/dB)    28.17  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1387  
 SLOPE (mV/dB)    26.69  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1286  
 SLOPE (mV/dB)    24.97  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.80  
 LINEARITY(-65 TO +5dBm)    ± 1.31  
 FREQUENCY FLATNESS    ± 3.48

|                              | -65    | -60    | -55    | -50    | -45    | -40    | -35    | -30    | -25    | -20    | -15    | -10    | -5     | 0      | 5      | RF Input Power (dBm) |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| 0.30 Measured Value (mV)     | -346   | -231   | -109   | 42     | 175    | 316    | 464    | 601    | 740    | 894    | 1020   | 1182   | 1314   | 1475   | 1592   | Measured Value (mV)  |
| 0.30 Error (mV)              | 32     | 6      | -14    | -3     | -11    | -11    | -4     | -8     | -9     | 4      | -11    | 10     | 1      | 21     | -3     | Error (mV)           |
| 0.30 Limited IF Output (dBm) | -16.79 | -16.15 | -15.91 | -15.79 | -15.72 | -15.67 | -15.64 | -15.62 | -15.62 | -15.62 | -15.62 | -15.63 | -15.63 | -15.63 | -15.64 | Measured Value (mV)  |
| 0.55 Measured Value (mV)     | -313   | -207   | -96    | 47     | 172    | 308    | 448    | 577    | 711    | 856    | 976    | 1130   | 1255   | 1405   | 1522   | Measured Value (mV)  |
| 0.55 Error (mV)              | 35     | 8      | -14    | -5     | -14    | -11    | -4     | -9     | -9     | 3      | -11    | 10     | 2      | 18     | 2      | Error (mV)           |
| 0.55 Limited IF Output (dBm) | -16.62 | -16.18 | -15.96 | -15.83 | -15.75 | -15.71 | -15.70 | -15.71 | -15.72 | -15.73 | -15.73 | -15.74 | -15.74 | -15.75 | -15.77 | Measured Value (mV)  |
| 0.80 Measured Value (mV)     | -310   | -197   | -93    | 35     | 150    | 272    | 404    | 524    | 650    | 786    | 900    | 1044   | 1164   | 1306   | 1418   | Measured Value (mV)  |
| 0.80 Error (mV)              | 27     | 15     | -5     | -3     | -12    | -15    | -8     | -13    | -12    | 0      | -11    | 8      | 3      | 20     | 7      | Error (mV)           |
| 0.80 Limited IF Output (dBm) | -16.61 | -16.04 | -15.87 | -15.77 | -15.74 | -15.73 | -15.74 | -15.75 | -15.75 | -15.75 | -15.76 | -15.76 | -15.76 | -15.77 | -15.80 | Measured Value (mV)  |

TSS    25C  
 -65dBm MAX    -67dBm

OUTPUT VOLTAGE    25C  
 2.7V MAX    2.63 V

INPUT VSWR  
 2:1 MAX @ 25C    1.18:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C    1.35:1

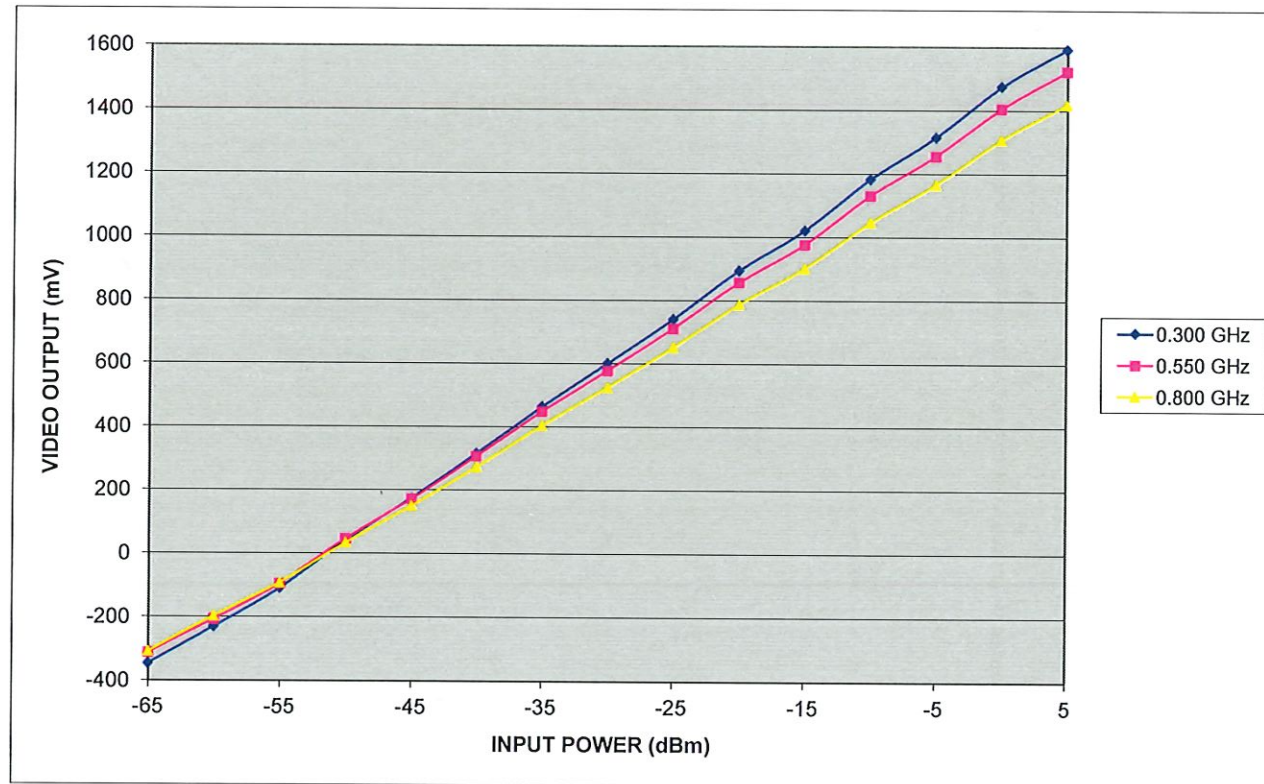
VIDEO RISE TIME  
 25 nS MAX @ 25C    24 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C    46 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C    34 nS

+5 V @ 70 mA MAX    16 mA

-5.2 V @ 200 mA MAX    124mA



LIMITED IF OUTPUT MAX    -15.62 dBm  
 LIMITED IF OUTPUT MIN    -16.79 dBm  
 LIMITED IF FLATNESS    ± 0.59 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL5456  
 TESTED BY: B. BAKER  
 DATE: 24/MARCH/2008



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Frequency

0.30 INTERCEPT (mV)    1429  
 SLOPE (mV/dB)    28.18  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1361  
 SLOPE (mV/dB)    26.71  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1259  
 SLOPE (mV/dB)    24.95  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.79  
 LINEARITY(-65 TO +5dBm)    ± 1.43  
 FREQUENCY FLATNESS    ± 3.52

|                          | -65    | -60    | -55    | -50    | -45    | -40    | -35    | -30    | -25    | -20    | -15    | -10    | -5     | 0      | 5      | RF Input Power (dBm) |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| 0.30 Measured Value (mV) | -367   | -256   | -135   | 14     | 150    | 289    | 437    | 576    | 713    | 869    | 996    | 1157   | 1290   | 1450   | 1569   | Measured Value (mV)  |
| 0.30 Error (mV)          | 36     | 6      | -13    | -6     | -11    | -12    | -6     | -8     | -11    | 4      | -10    | 10     | 2      | 21     | -1     | Error (mV)           |
| 0.30 Measured Value (mV) | -16.90 | -16.18 | -15.91 | -15.78 | -15.70 | -15.65 | -15.62 | -15.60 | -15.60 | -15.60 | -15.60 | -15.60 | -15.61 | -15.61 | -15.61 | Measured Value (mV)  |
| 0.55 Measured Value (mV) | -337   | -232   | -123   | 18     | 146    | 279    | 421    | 551    | 683    | 831    | 950    | 1103   | 1230   | 1379   | 1498   | Measured Value (mV)  |
| 0.55 Error (mV)          | 38     | 9      | -15    | -8     | -13    | -13    | -6     | -9     | -11    | 4      | -11    | 9      | 3      | 18     | 4      | Error (mV)           |
| 0.55 Measured Value (mV) | -16.69 | -16.20 | -15.96 | -15.82 | -15.73 | -15.68 | -15.68 | -15.69 | -15.69 | -15.70 | -15.71 | -15.71 | -15.71 | -15.71 | -15.73 | Measured Value (mV)  |
| 0.80 Measured Value (mV) | -333   | -222   | -119   | 5      | 125    | 244    | 377    | 498    | 622    | 760    | 874    | 1016   | 1138   | 1279   | 1393   | Measured Value (mV)  |
| 0.80 Error (mV)          | 30     | 16     | -5     | -6     | -11    | -16    | -9     | -12    | -14    | 0      | -11    | 7      | 4      | 20     | 9      | Error (mV)           |
| 0.80 Measured Value (mV) | -16.58 | -16.06 | -15.87 | -15.76 | -15.72 | -15.71 | -15.71 | -15.73 | -15.73 | -15.73 | -15.73 | -15.73 | -15.74 | -15.75 | -15.77 | Measured Value (mV)  |

TSS    25C  
 -65dBm MAX    -67dBm

OUTPUT VOLTAGE    25C  
 2.7V MAX    2.63 V

INPUT VSWR  
 2:1 MAX @ 25C    1.18:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C    1.35:1

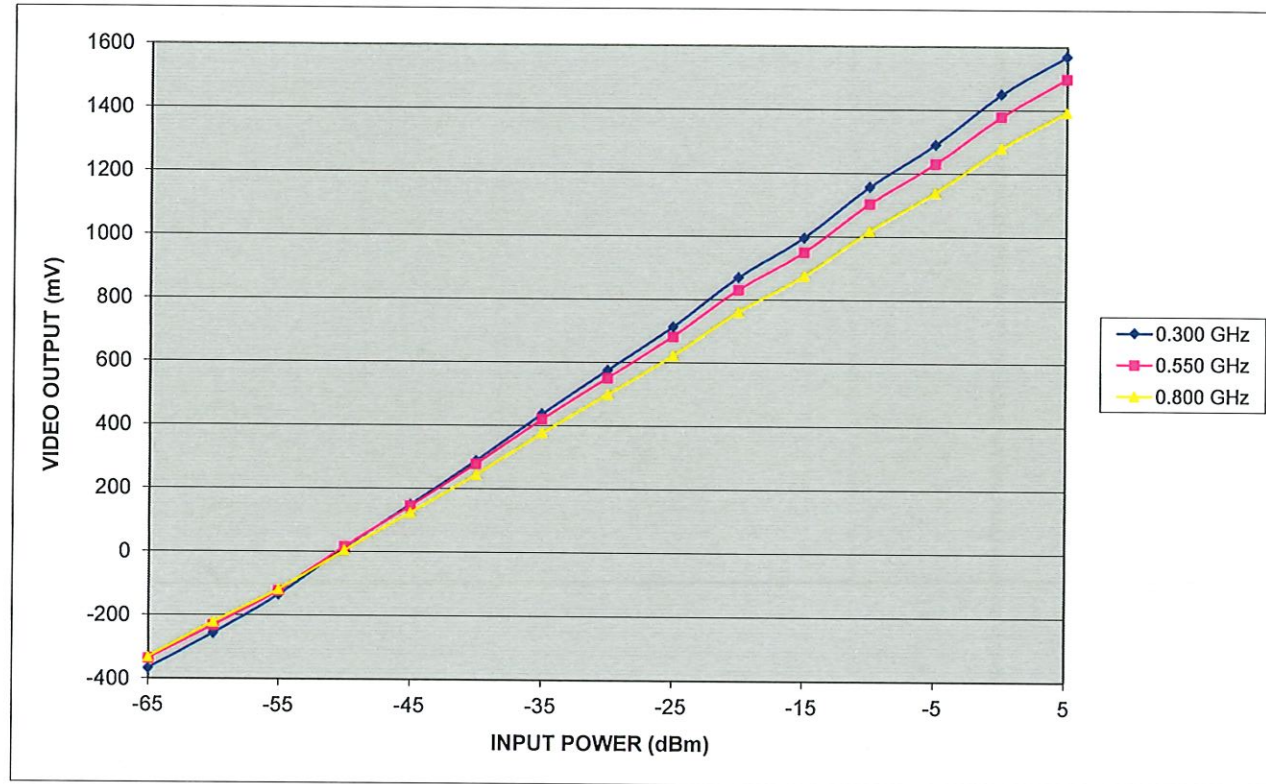
VIDEO RISE TIME  
 25 nS MAX @ 25C    24 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C    46 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C    34 nS

+5 V @ 70 mA MAX    16 mA

-5.2 V @ 200 mA MAX    124mA



LIMITED IF OUTPUT MAX    -15.60 dBm  
 LIMITED IF OUTPUT MIN    -16.90 dBm  
 LIMITED IF FLATNESS    ± 0.65 dBm

LOG TRANSFER WITH FREQUENCY @ -55 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL5456  
 TESTED BY: B. BAKER  
 DATE: 24/MARCH/2008



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Frequency

0.30 INTERCEPT (mV) 1890  
 SLOPE (mV/dB) 29.23  
 LIMITED IF OUTPUT (dBm)  
 0.55 INTERCEPT (mV) 1830  
 SLOPE (mV/dB) 27.88  
 LIMITED IF OUTPUT (dBm)  
 0.80 INTERCEPT (mV) 1745  
 SLOPE (mV/dB) 26.31  
 LIMITED IF OUTPUT (dBm)  
 LINEARITY(-60 TO 0dBm) ± 1.14  
 LINEARITY(-65 TO +5dBm) ± 1.14  
 FREQUENCY FLATNESS ± 3.13

|                          | -65    | -60    | -55    | -50    | -45    | -40    | -35    | -30    | -25    | -20    | -15    | -10    | -5     | 0      | 5      | RF Input Power (dBm) |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| 0.30 Measured Value (mV) | -41    | 106    | 295    | 444    | 580    | 754    | 869    | 1026   | 1175   | 1303   | 1447   | 1608   | 1727   | 1896   | 2012   | Measured Value (mV)  |
| 0.30 Error (mV)          | -31    | -30    | 13     | 15     | 5      | 33     | 2      | 12     | 16     | -3     | -5     | 10     | -17    | 6      | -25    | Error (mV)           |
| 0.30 Measured Value (mV) | -15.69 | -15.69 | -15.86 | -15.93 | -15.93 | -15.95 | -15.93 | -15.92 | -15.92 | -15.93 | -15.94 | -15.94 | -15.95 | -15.95 | -15.94 | Measured Value (mV)  |
| 0.55 Measured Value (mV) | -9     | 138    | 307    | 441    | 579    | 744    | 854    | 1008   | 1149   | 1268   | 1410   | 1561   | 1674   | 1837   | 1946   | Measured Value (mV)  |
| 0.55 Error (mV)          | -27    | -19    | 10     | 5      | 4      | 29     | 0      | 14     | 16     | -5     | -2     | 10     | -17    | 7      | -23    | Error (mV)           |
| 0.55 Measured Value (mV) | -15.60 | -15.60 | -15.68 | -15.73 | -15.81 | -15.74 | -15.74 | -15.75 | -15.77 | -15.80 | -15.80 | -15.79 | -15.79 | -15.79 | -15.80 | Measured Value (mV)  |
| 0.80 Measured Value (mV) | 14     | 154    | 283    | 448    | 576    | 717    | 821    | 963    | 1096   | 1211   | 1349   | 1490   | 1602   | 1755   | 1855   | Measured Value (mV)  |
| 0.80 Error (mV)          | -21    | -12    | -15    | 19     | 15     | 25     | -3     | 7      | 9      | -7     | -1     | 8      | -12    | 10     | -21    | Error (mV)           |
| 0.80 Measured Value (mV) | -15.60 | -15.61 | -15.67 | -15.79 | -15.81 | -15.81 | -15.76 | -15.74 | -15.77 | -15.77 | -15.76 | -15.76 | -15.76 | -15.79 | -15.86 | Measured Value (mV)  |

TSS 25C  
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.63 V

INPUT VSWR 2:1 MAX @ 25C 1.18:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.35:1

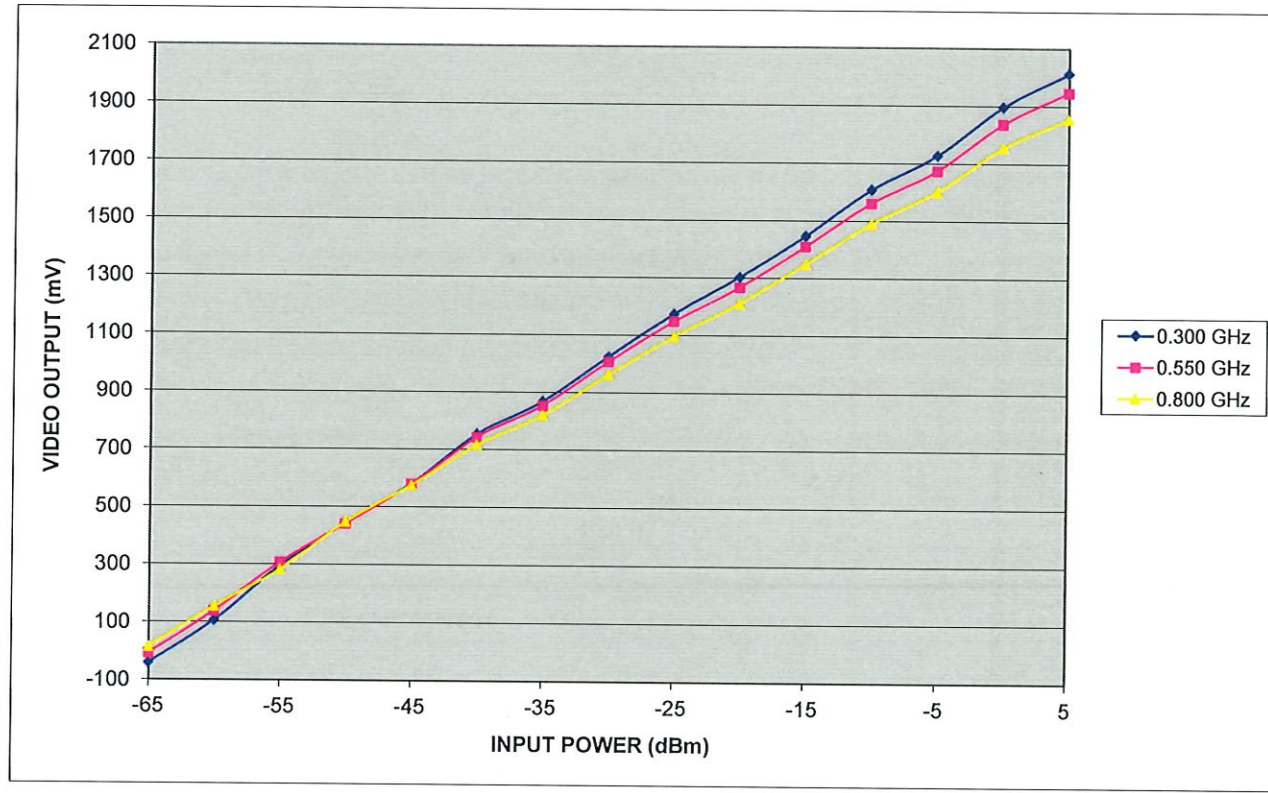
VIDEO RISE TIME 25 nS MAX @ 25C 24 nS

VIDEO FALL TIME 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 121 mA



LIMITED IF OUTPUT MAX -15.60 dBm  
 LIMITED IF OUTPUT MIN -15.95 dBm  
 LIMITED IF FLATNESS ± 0.18 dBm