

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4306  
 TESTED BY: H. HAHN  
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA  
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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1612  
 SLOPE (mV/dB) 27.71  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1551  
 SLOPE (mV/dB) 26.38  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1458  
 SLOPE (mV/dB) 24.71  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.89  
 LINEARITY(-65 TO +5dBm) ± 0.89  
 FREQUENCY FLATNESS ± 3.16

|                     | -65    | -60    | -55    | -50    | -45    | -40    | -35    | -30    | -25    | -20    | -15    | -10    | -5     | 0      | 5      | RF Input Power (dBm) |
|---------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| Measured Value (mV) | -187   | -63    | 90     | 237    | 359    | 510    | 645    | 772    | 927    | 1053   | 1189   | 1344   | 1472   | 1625   | 1738   |                      |
| Error (mV)          | 2      | -12    | 2      | 11     | -6     | 7      | 3      | -9     | 7      | -5     | -7     | 9      | -2     | 13     | -13    |                      |
| Measured Value (mV) | -16.57 | -16.30 | -16.24 | -16.20 | -16.17 | -16.13 | -16.11 | -16.10 | -16.10 | -16.10 | -16.11 | -16.12 | -16.12 | -16.12 | -16.13 |                      |
| Measured Value (mV) | -156   | -40    | 100    | 235    | 355    | 502    | 629    | 752    | 899    | 1017   | 1148   | 1297   | 1417   | 1564   | 1672   |                      |
| Error (mV)          | 8      | -8     | 0      | 3      | -9     | 6      | 2      | -7     | 8      | -6     | -7     | 10     | -2     | 13     | -11    |                      |
| Measured Value (mV) | -16.50 | -16.33 | -16.26 | -16.18 | -16.11 | -16.12 | -16.15 | -16.15 | -16.16 | -16.18 | -16.18 | -16.17 | -16.17 | -16.18 | -16.21 |                      |
| Measured Value (mV) | -127   | -18    | 105    | 216    | 324    | 465    | 588    | 704    | 844    | 956    | 1081   | 1221   | 1335   | 1476   | 1580   |                      |
| Error (mV)          | 21     | 7      | 6      | -6     | -22    | -5     | -5     | -12    | 4      | -8     | -6     | 10     | 1      | 18     | -2     |                      |
| Measured Value (mV) | -16.42 | -16.29 | -16.25 | -16.24 | -16.17 | -16.10 | -16.17 | -16.19 | -16.22 | -16.23 | -16.22 | -16.22 | -16.22 | -16.23 | -16.27 |                      |

TSS 25C  
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.46V

INPUT VSWR  
 2:1 MAX @ 25C 1.16:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.45:1

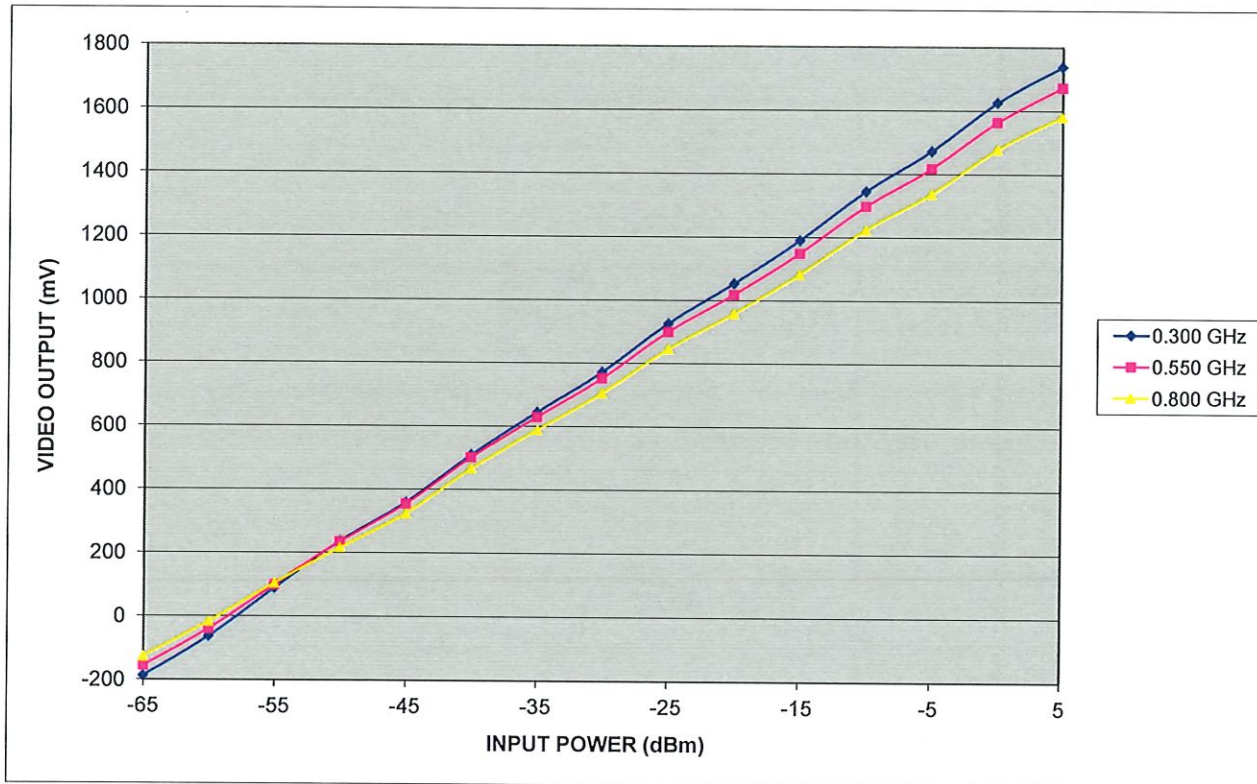
VIDEO RISE TIME  
 25 nS MAX @ 25C 18 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C 44 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -16.10 dBm  
 LIMITED IF OUTPUT MIN -16.57 dBm  
 LIMITED IF FLATNESS ± 0.24 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4306  
 TESTED BY: H. HAHN  
 DATE: 6/AUG/2008



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Frequency

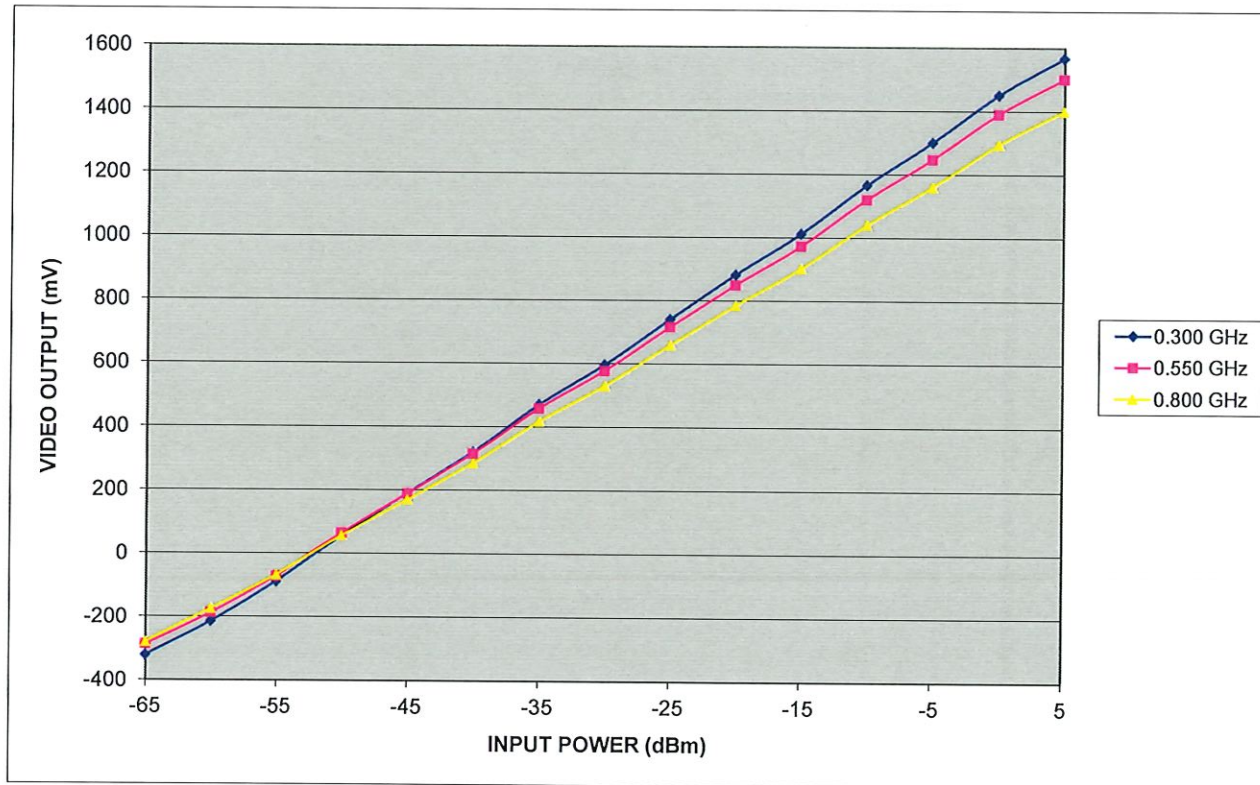
0.30 INTERCEPT (mV)    1432  
 SLOPE (mV/dB)    27.46  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1372  
 SLOPE (mV/dB)    26.06  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1275  
 SLOPE (mV/dB)    24.35  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.77  
 LINEARITY(-65 TO +5dBm)    ± 1.32  
 FREQUENCY FLATNESS    ± 3.33

|                              | -65    | -60    | -55    | -50    | -45    | -40    | -35    | -30    | -25    | -20    | -15    | -10    | -5     | 0      | 5      | RF Input Power (dBm) |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| 0.30 Measured Value (mV)     | -321   | -215   | -89    | 56     | 190    | 320    | 471    | 597    | 741    | 882    | 1012   | 1166   | 1300   | 1450   | 1567   | Measured Value (mV)  |
| 0.30 Error (mV)              | 32     | 1      | -11    | -3     | -7     | -14    | -1     | -12    | -5     | -1     | -9     | 8      | 5      | 18     | -3     | Error (mV)           |
| 0.30 Limited IF Output (dBm) | -16.98 | -16.40 | -16.16 | -16.04 | -16.97 | -16.92 | -16.89 | -16.87 | -16.87 | -16.87 | -16.88 | -16.88 | -16.88 | -16.88 | -16.89 | Measured Value (mV)  |
| 0.55 Measured Value (mV)     | -287   | -188   | -72    | 65     | 189    | 316    | 458    | 578    | 717    | 850    | 973    | 1121   | 1247   | 1390   | 1501   | Measured Value (mV)  |
| 0.55 Error (mV)              | 34     | 4      | -11    | -5     | -10    | -14    | -2     | -13    | -4     | -1     | -9     | 9      | 5      | 18     | -1     | Error (mV)           |
| 0.55 Limited IF Output (dBm) | -16.78 | -16.38 | -16.17 | -16.05 | -16.97 | -16.92 | -16.92 | -16.93 | -16.94 | -16.95 | -16.96 | -16.96 | -16.96 | -16.97 | -16.00 | Measured Value (mV)  |
| 0.80 Measured Value (mV)     | -281   | -175   | -69    | 56     | 169    | 284    | 417    | 529    | 659    | 784    | 901    | 1039   | 1159   | 1294   | 1400   | Measured Value (mV)  |
| 0.80 Error (mV)              | 27     | 11     | -4     | -1     | -10    | -17    | -6     | -16    | -7     | -4     | -9     | 8      | 6      | 19     | 4      | Error (mV)           |
| 0.80 Limited IF Output (dBm) | -16.69 | -16.29 | -16.13 | -16.05 | -16.01 | -16.00 | -16.00 | -16.01 | -16.02 | -16.03 | -16.03 | -16.03 | -16.04 | -16.06 | -16.10 | Measured Value (mV)  |



LIMITED IF OUTPUT MAX    -16.87 dBm  
 LIMITED IF OUTPUT MIN    -16.98 dBm  
 LIMITED IF FLATNESS    ± 0.55 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4306  
 TESTED BY: H. HAHN  
 DATE: 4/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1409  
 SLOPE (mV/dB)    27.48  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1348  
 SLOPE (mV/dB)    26.06  
 LIMITED IF OUTPUT (dBm)

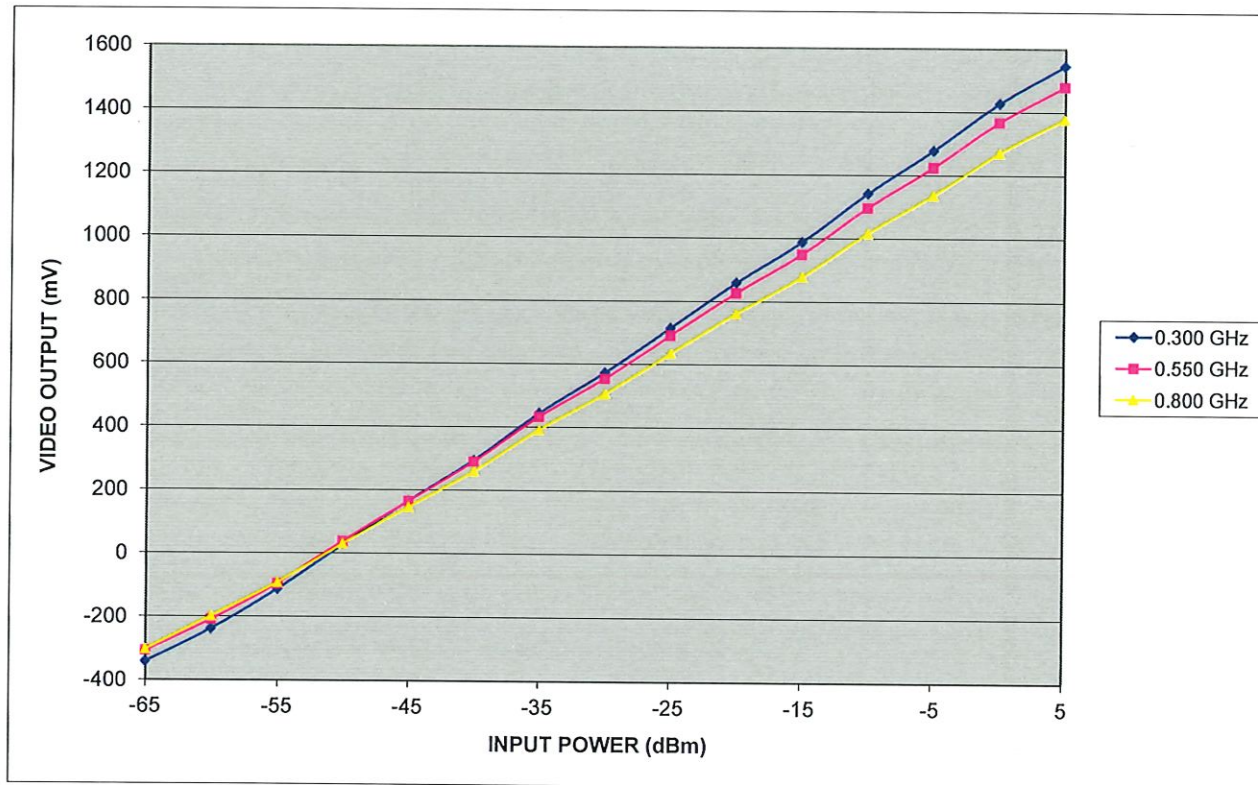
0.80 INTERCEPT (mV)    1251  
 SLOPE (mV/dB)    24.35  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.76  
 LINEARITY(-65 TO +5dBm)    ± 1.43  
 FREQUENCY FLATNESS    ± 3.36

TSS    95C  
 -65dBm MAX    -69 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX    2.34V

|                              | -65    | -60    | -55    | -50    | -45    | -40    | -35    | -30    | -25    | -20    | -15    | -10    | -5     | 0      | 5      | RF Input Power (dBm)    |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------------|
| 0.30 Measured Value (mV)     | -342   | -239   | -114   | 29     | 166    | 294    | 445    | 573    | 715    | 858    | 988    | 1142   | 1277   | 1427   | 1545   | Measured Value (mV)     |
| 0.30 Error (mV)              | 36     | 1      | -11    | -6     | -6     | -15    | -2     | -11    | -7     | -1     | -9     | 8      | 6      | 18     | -1     | Error (mV)              |
| 0.30 Limited If Output (dBm) | -17.16 | -16.62 | -16.24 | -16.12 | -16.04 | -15.99 | -15.96 | -15.94 | -15.93 | -15.93 | -15.93 | -15.94 | -15.94 | -15.94 | -15.94 | Limited If Output (dBm) |
| 0.55 Measured Value (mV)     | -308   | -210   | -97    | 38     | 165    | 291    | 433    | 554    | 691    | 826    | 949    | 1097   | 1224   | 1366   | 1479   | Measured Value (mV)     |
| 0.55 Error (mV)              | 37     | 5      | -12    | -7     | -10    | -15    | -3     | -13    | -6     | -1     | -9     | 9      | 6      | 18     | 0      | Error (mV)              |
| 0.55 Limited If Output (dBm) | -16.92 | -16.48 | -16.26 | -16.12 | -16.04 | -15.99 | -15.98 | -15.99 | -16.00 | -16.01 | -16.01 | -16.02 | -16.02 | -16.03 | -16.05 | Limited If Output (dBm) |
| 0.80 Measured Value (mV)     | -304   | -199   | -93    | 30     | 146    | 259    | 392    | 505    | 633    | 760    | 876    | 1015   | 1135   | 1269   | 1377   | Measured Value (mV)     |
| 0.80 Error (mV)              | 28     | 11     | -4     | -3     | -8     | -18    | -7     | -15    | -9     | -4     | -9     | 7      | 7      | 19     | 4      | Error (mV)              |
| 0.80 Limited If Output (dBm) | -16.84 | -16.39 | -16.21 | -16.11 | -16.07 | -16.06 | -16.06 | -16.07 | -16.08 | -16.09 | -16.09 | -16.09 | -16.10 | -16.12 | -16.16 | Limited If Output (dBm) |



LIMITED IF OUTPUT MAX    -15.93 dBm  
 LIMITED IF OUTPUT MIN    -17.16 dBm  
 LIMITED IF FLATNESS    ± 0.61 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4306  
 TESTED BY: H. HAHN  
 DATE: 6/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1900  
 SLOPE (mV/dB)    29.15  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1839  
 SLOPE (mV/dB)    27.91  
 LIMITED IF OUTPUT (dBm)

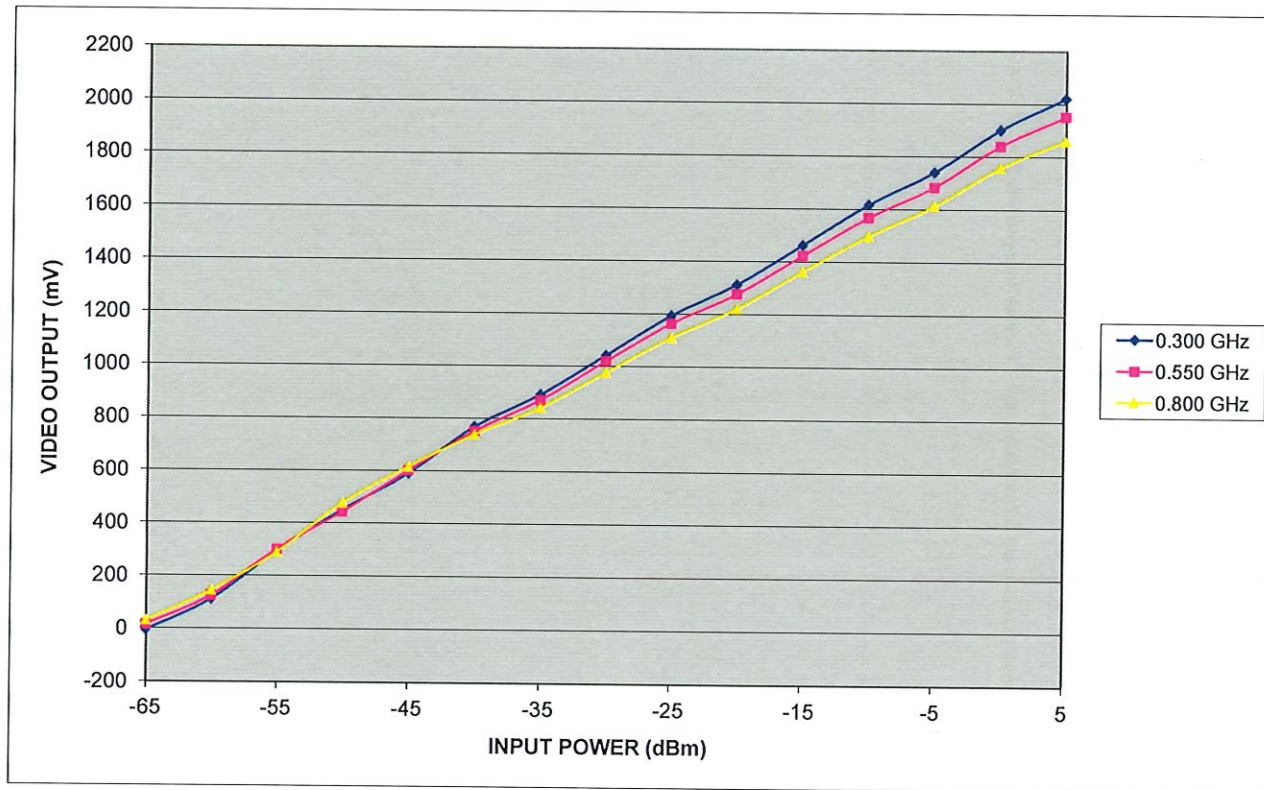
0.80 INTERCEPT (mV)    1754  
 SLOPE (mV/dB)    26.18  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 1.51  
 LINEARITY(-65 TO +5dBm)    ± 1.51  
 FREQUENCY FLATNESS    ± 3.21

TSS                    -54C  
 -65dBm MAX           -66dBm

OUTPUT VOLTAGE    -54C  
 2.7V MAX            2.71 V

|                          | -65    | -60    | -55    | -50    | -45    | -40    | -35    | -30    | -25    | -20    | -15    | -10    | -5     | 0      | 5      | RF Input Power (dBm) |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| 0.30 Measured Value (mV) | -5     | 112    | 294    | 452    | 590    | 768    | 891    | 1041   | 1193   | 1312   | 1463   | 1616   | 1740   | 1901   | 2020   | Measured Value (mV)  |
| 0.30 Error (mV)          | -11    | -39    | -3     | 9      | 1      | 34     | 11     | 15     | 21     | -6     | 0      | 7      | -14    | 1      | -26    | Error (mV)           |
| 0.30 Measured Value (mV) | -15.90 | -15.82 | -15.87 | -15.97 | -15.96 | -16.03 | -16.04 | -16.06 | -16.08 | -16.10 | -16.11 | -16.11 | -16.12 | -16.11 | -16.11 | Measured Value (mV)  |
| 0.55 Measured Value (mV) | 15     | 125    | 300    | 444    | 601    | 752    | 870    | 1020   | 1163   | 1276   | 1423   | 1568   | 1684   | 1840   | 1952   | Measured Value (mV)  |
| 0.55 Error (mV)          | -10    | -40    | -4     | 0      | 17     | 29     | 7      | 17     | 22     | -5     | 3      | 8      | -16    | 1      | -27    | Error (mV)           |
| 0.55 Measured Value (mV) | -15.86 | -15.84 | -15.84 | -15.91 | -16.03 | -15.98 | -15.97 | -16.00 | -16.03 | -16.06 | -16.06 | -16.06 | -16.06 | -16.06 | -16.08 | Measured Value (mV)  |
| 0.80 Measured Value (mV) | 30     | 144    | 289    | 476    | 615    | 738    | 840    | 976    | 1109   | 1219   | 1361   | 1497   | 1612   | 1758   | 1860   | Measured Value (mV)  |
| 0.80 Error (mV)          | -22    | -38    | -25    | 32     | 39     | 32     | 3      | 7      | 9      | -11    | 0      | 5      | -11    | 4      | -25    | Error (mV)           |
| 0.80 Measured Value (mV) | -15.86 | -15.85 | -15.92 | -16.07 | -16.08 | -16.12 | -16.08 | -16.05 | -16.06 | -16.06 | -16.04 | -16.03 | -16.03 | -16.07 | -16.15 | Measured Value (mV)  |



LIMITED IF OUTPUT MAX    -15.82 dBm  
 LIMITED IF OUTPUT MIN    -16.15 dBm  
 LIMITED IF FLATNESS    ± 0.16 dBm