

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4314
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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 ISO 9001:2000 CERTIFIED

Frequency

-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 RF Input Power (dBm)

0.30 INTERCEPT (mV) 1583
 SLOPE (mV/dB) 27.8
 LIMITED IF OUTPUT (dBm)

| | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| -212 | -90 | 49 | 201 | 324 | 469 | 612 | 737 | 890 | 1023 | 1167 | 1314 | 1445 | 1598 | 1713 | Measured Value (mV) |
| 13 | -5 | -5 | 8 | -8 | -2 | 2 | -11 | 3 | -4 | -8 | 10 | 1 | 16 | -9 | Error (mV) |
| -16.78 | -16.44 | -16.34 | -16.27 | -16.22 | -16.18 | -16.16 | -16.16 | -16.14 | -16.15 | -16.16 | -16.16 | -16.16 | -16.17 | -16.17 | Measured Value (mV) |

0.55 INTERCEPT (mV) 1520
 SLOPE (mV/dB) 26.43
 LIMITED IF OUTPUT (dBm)

| | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| -180 | -70 | 61 | 201 | 321 | 461 | 595 | 716 | 863 | 987 | 1115 | 1266 | 1388 | 1535 | 1645 | Measured Value (mV) |
| 18 | -4 | -5 | 3 | -10 | -1 | 0 | -11 | 4 | -5 | -8 | 10 | 1 | 15 | -7 | Error (mV) |
| -16.69 | -16.46 | -16.33 | -16.24 | -16.16 | -16.16 | -16.18 | -16.20 | -16.20 | -16.21 | -16.22 | -16.21 | -16.21 | -16.22 | -16.24 | Measured Value (mV) |

0.80 INTERCEPT (mV) 1421
 SLOPE (mV/dB) 24.67
 LIMITED IF OUTPUT (dBm)

| | | | | | | | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------------|
| -159 | -52 | 64 | 188 | 293 | 424 | 551 | 665 | 803 | 920 | 1043 | 1184 | 1300 | 1440 | 1545 | Measured Value (mV) |
| 24 | 7 | 1 | 1 | -17 | -10 | -6 | -16 | -1 | -7 | -8 | 10 | 3 | 19 | 1 | Error (mV) |
| -16.60 | -16.40 | -16.32 | -16.28 | -16.25 | -16.21 | -16.23 | -16.25 | -16.27 | -16.28 | -16.28 | -16.27 | -16.28 | -16.29 | -16.33 | Measured Value (mV) |

LINEARITY(-60 TO 0dBm) ± 0.77
 LINEARITY(-65 TO +5dBm) ± 0.96
 FREQUENCY FLATNESS ± 3.36

TSS 25C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.42V

INPUT VSWR 2:1 MAX @ 25C
 1.20:1

IF OUTPUT VSWR 2:1 MAX @ 25C
 1.51:1

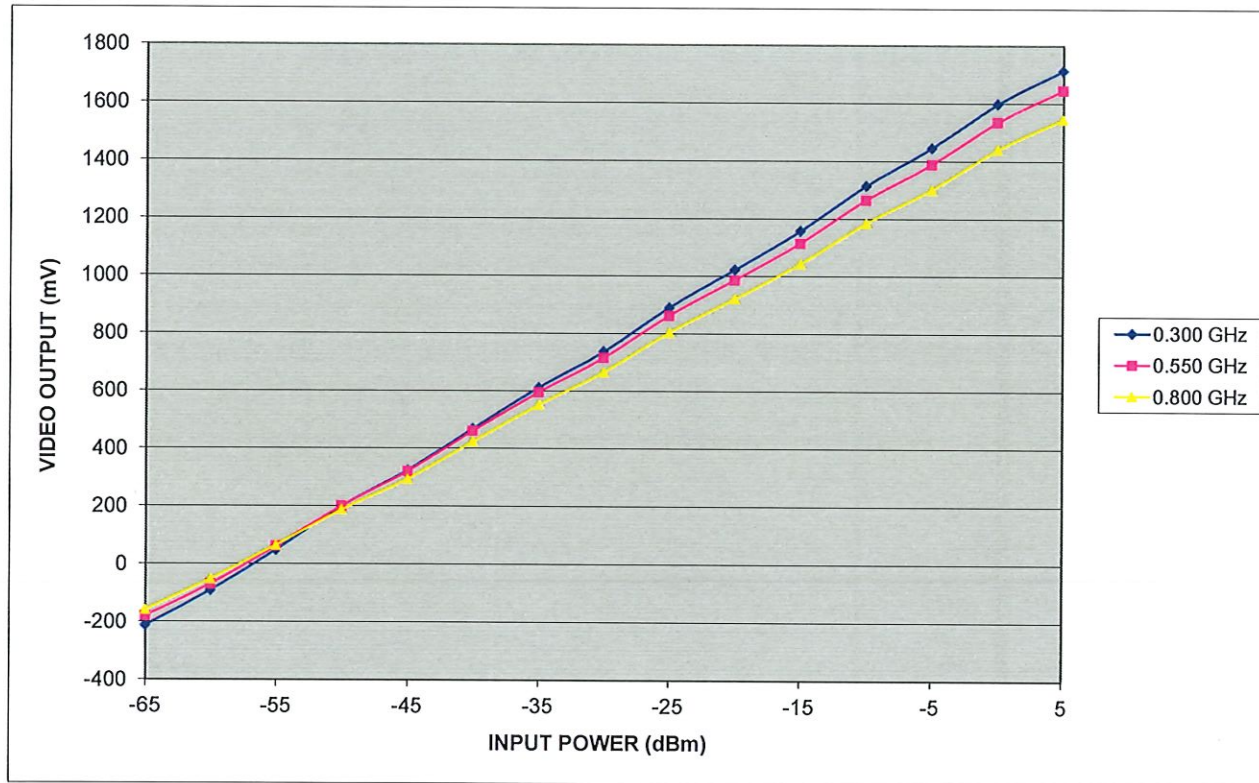
VIDEO RISE TIME 25 nS MAX @ 25C
 20 nS

VIDEO FALL TIME 80 nS MAX @ 25C
 48 nS

PROPAGATION DELAY 40 nS MAX @ 25C
 14 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -16.14 dBm
 LIMITED IF OUTPUT MIN -16.78 dBm
 LIMITED IF FLATNESS ± 0.32 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4314
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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Frequency

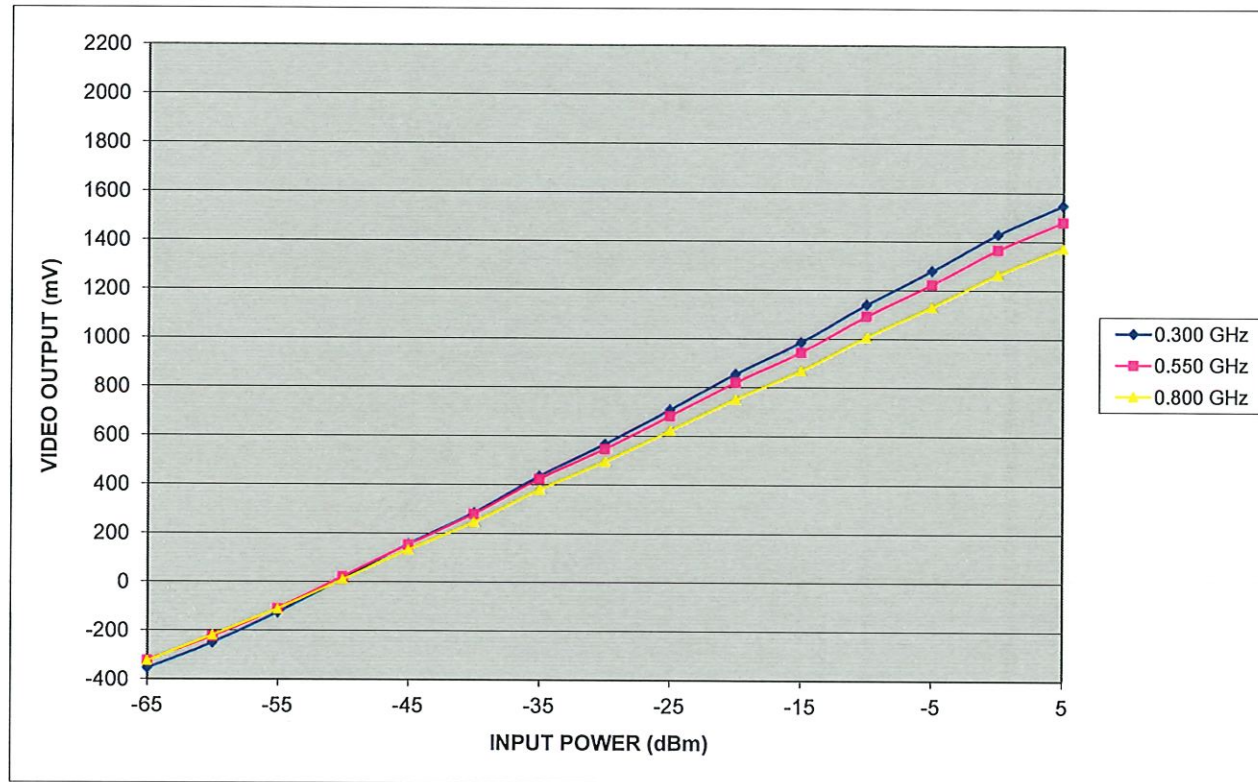
0.30 INTERCEPT (mV) 1409
 SLOPE (mV/dB) 27.72
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1347
 SLOPE (mV/dB) 26.29
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1245
 SLOPE (mV/dB) 24.58
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 1.46
 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) | -354 | -250 | -125 | 14 | 156 | 284 | 436 | 566 | 708 | 854 | 985 | 1140 | 1278 | 1429 | 1548 | |
| 0.30 Error (mV) | 38 | 3 | -10 | -9 | -6 | -16 | -4 | -11 | -9 | -1 | -9 | 7 | 7 | 19 | 0 | |
| 0.30 Limited If Output (dBm) | -17.28 | -16.61 | -16.32 | -16.19 | -16.10 | -16.05 | -16.01 | -16.00 | -16.99 | -15.99 | -15.99 | -16.00 | -16.00 | -16.00 | -16.00 | |
| 0.55 Measured Value (mV) | -324 | -224 | -111 | 23 | 154 | 279 | 423 | 546 | 682 | 820 | 944 | 1092 | 1222 | 1365 | 1480 | |
| 0.55 Error (mV) | 38 | 7 | -11 | -10 | -9 | -16 | -4 | -12 | -8 | -1 | -9 | 8 | 7 | 19 | 1 | |
| 0.55 Limited If Output (dBm) | -17.04 | -16.68 | -16.33 | -16.19 | -16.10 | -16.05 | -16.04 | -16.05 | -16.06 | -16.07 | -16.07 | -16.07 | -16.08 | -16.08 | -16.11 | |
| 0.80 Measured Value (mV) | -325 | -220 | -111 | 10 | 133 | 245 | 378 | 494 | 620 | 750 | 867 | 1008 | 1129 | 1263 | 1372 | |
| 0.80 Error (mV) | 28 | 10 | -4 | -5 | -6 | -17 | -6 | -13 | -10 | -3 | -9 | 6 | 7 | 18 | 4 | |
| 0.80 Limited If Output (dBm) | -17.02 | -16.61 | -16.29 | -16.18 | -16.13 | -16.12 | -16.13 | -16.14 | -16.14 | -16.14 | -16.15 | -16.15 | -16.16 | -16.16 | -16.20 | |



LIMITED IF OUTPUT MAX -15.99 dBm
 LIMITED IF OUTPUT MIN -17.28 dBm
 LIMITED IF FLATNESS ± 0.64 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4314
 TESTED BY: H. HAHN
 DATE: 4/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1395
 SLOPE (mV/dB) 27.74
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1332
 SLOPE (mV/dB) 26.29
 LIMITED IF OUTPUT (dBm)

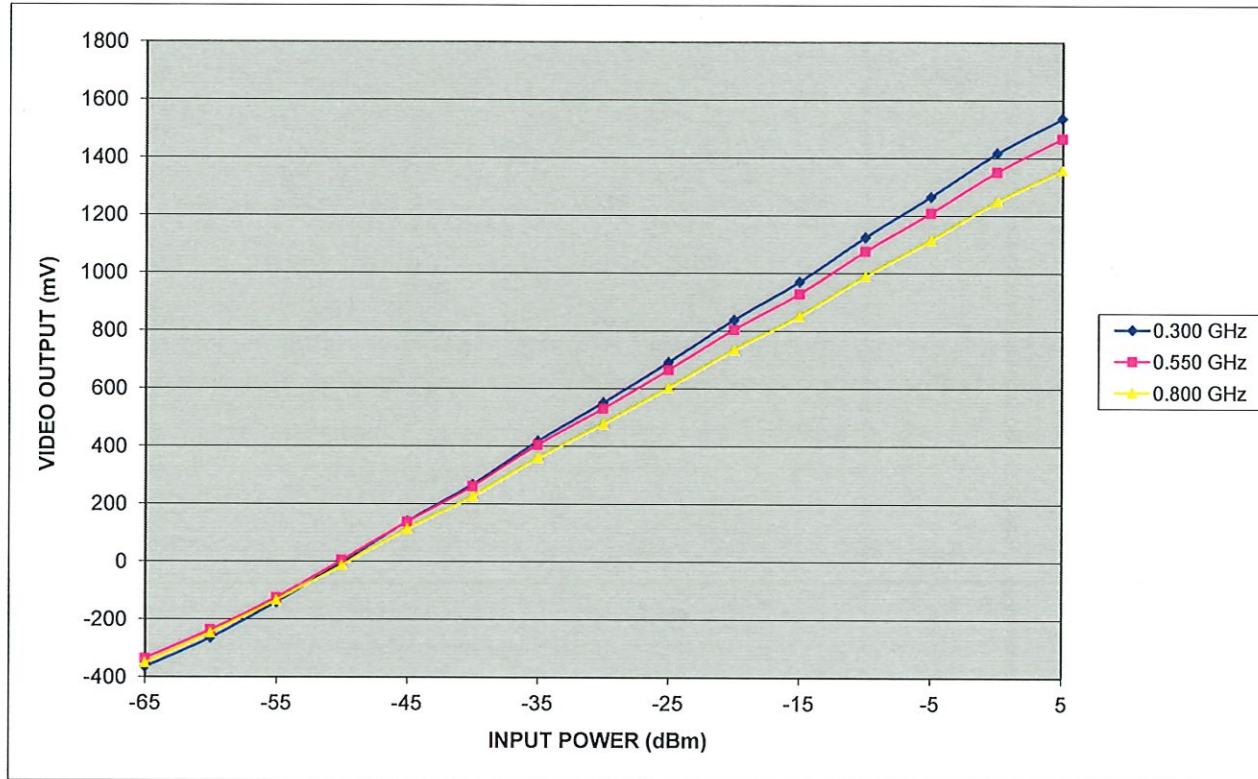
0.80 INTERCEPT (mV) 1230
 SLOPE (mV/dB) 24.75
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.74
 LINEARITY(-65 TO +5dBm) ± 1.57
 FREQUENCY FLATNESS ± 3.58

TSS 95C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.32V

| | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | RF Input Power (dBm) |
|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
| 0.30 Measured Value (mV) | -365 | -264 | -140 | -4 | 140 | 268 | 418 | 551 | 691 | 839 | 970 | 1124 | 1265 | 1415 | 1536 | Measured Value (mV) |
| 0.30 Error (mV) | 43 | 5 | -10 | -12 | -7 | -18 | -6 | -12 | -10 | -1 | -9 | 7 | 8 | 20 | 2 | Error (mV) |
| 0.30 Limited If Output (dBm) | -17.47 | -16.76 | -16.45 | -16.30 | -16.21 | -16.15 | -16.11 | -16.10 | -16.09 | -16.09 | -16.09 | -16.10 | -16.10 | -16.09 | -16.09 | Measured Value (mV) |
| 0.55 Measured Value (mV) | -336 | -237 | -125 | 5 | 138 | 262 | 405 | 531 | 664 | 804 | 928 | 1076 | 1208 | 1351 | 1467 | Measured Value (mV) |
| 0.55 Error (mV) | 41 | 9 | -11 | -12 | -10 | -18 | -6 | -12 | -10 | -1 | -9 | 7 | 8 | 20 | 4 | Error (mV) |
| 0.55 Limited If Output (dBm) | -17.21 | -16.71 | -16.45 | -16.30 | -16.21 | -16.15 | -16.14 | -16.15 | -16.15 | -16.16 | -16.17 | -16.17 | -16.17 | -16.19 | -16.21 | Measured Value (mV) |
| 0.80 Measured Value (mV) | -352 | -248 | -135 | -13 | 113 | 226 | 359 | 477 | 602 | 733 | 850 | 989 | 1113 | 1247 | 1357 | Measured Value (mV) |
| 0.80 Error (mV) | 26 | 7 | -4 | -6 | -3 | -15 | -5 | -11 | -10 | -2 | -9 | 6 | 7 | 17 | 3 | Error (mV) |
| 0.80 Limited If Output (dBm) | -17.32 | -16.70 | -16.43 | -16.29 | -16.24 | -16.23 | -16.23 | -16.24 | -16.24 | -16.25 | -16.25 | -16.25 | -16.27 | -16.29 | -16.33 | Measured Value (mV) |



LIMITED IF OUTPUT MAX -16.09 dBm
 LIMITED IF OUTPUT MIN -17.47 dBm
 LIMITED IF FLATNESS ± 0.69 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4314
 TESTED BY: H. HAHN
 DATE: 18/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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Frequency

0.30 INTERCEPT (mV) 1873
 SLOPE (mV/dB) 28.79
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1808
 SLOPE (mV/dB) 27.42
 LIMITED IF OUTPUT (dBm)

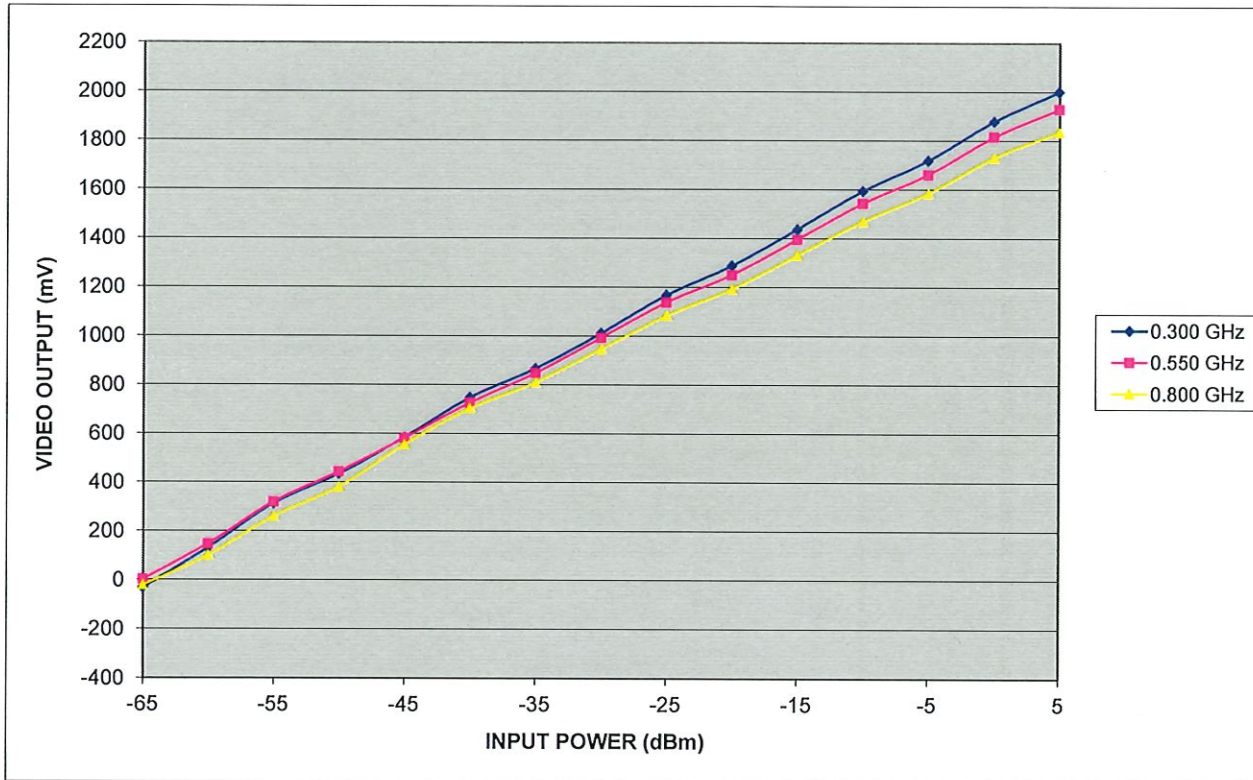
0.80 INTERCEPT (mV) 1729
 SLOPE (mV/dB) 26.65
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.47
 LINEARITY(-65 TO +5dBm) ± 1.47
 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) | -33 | 131 | 313 | 434 | 584 | 747 | 866 | 1011 | 1167 | 1287 | 1436 | 1593 | 1718 | 1878 | 2000 | |
| 0.30 Error (mV) | -34 | -14 | 24 | 1 | 7 | 26 | 1 | 2 | 15 | -10 | -5 | 8 | -11 | 5 | -17 | |
| 0.30 Measured Value (mV) | -16.21 | -16.24 | -16.40 | -16.47 | -16.51 | -16.54 | -16.58 | -16.55 | -16.54 | -16.56 | -16.58 | -16.58 | -16.58 | -16.57 | -16.54 | |
| 0.55 Measured Value (mV) | 2 | 146 | 318 | 442 | 582 | 726 | 847 | 992 | 1137 | 1249 | 1394 | 1542 | 1660 | 1815 | 1929 | |
| 0.55 Error (mV) | -24 | -17 | 18 | 5 | 8 | 14 | -1 | 6 | 15 | -10 | -2 | 9 | -11 | 7 | -16 | |
| 0.55 Measured Value (mV) | -16.04 | -15.96 | -15.98 | -16.04 | -16.15 | -16.17 | -16.06 | -16.10 | -16.16 | -16.18 | -16.18 | -16.17 | -16.16 | -16.16 | -16.16 | |
| 0.80 Measured Value (mV) | -22 | 99 | 259 | 380 | 556 | 702 | 809 | 945 | 1082 | 1191 | 1330 | 1468 | 1583 | 1729 | 1833 | |
| 0.80 Error (mV) | -19 | -31 | -4 | -16 | 26 | 39 | 12 | 15 | 19 | -5 | 0 | 6 | -13 | 0 | -29 | |
| 0.80 Measured Value (mV) | -16.00 | -15.92 | -15.90 | -16.02 | -16.05 | -16.09 | -16.03 | -16.00 | -16.04 | -16.07 | -16.07 | -16.06 | -16.07 | -16.10 | -16.19 | |

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V



LIMITED IF OUTPUT MAX -15.90 dBm
 LIMITED IF OUTPUT MIN -16.58 dBm
 LIMITED IF FLATNESS ± 0.34 dBm