



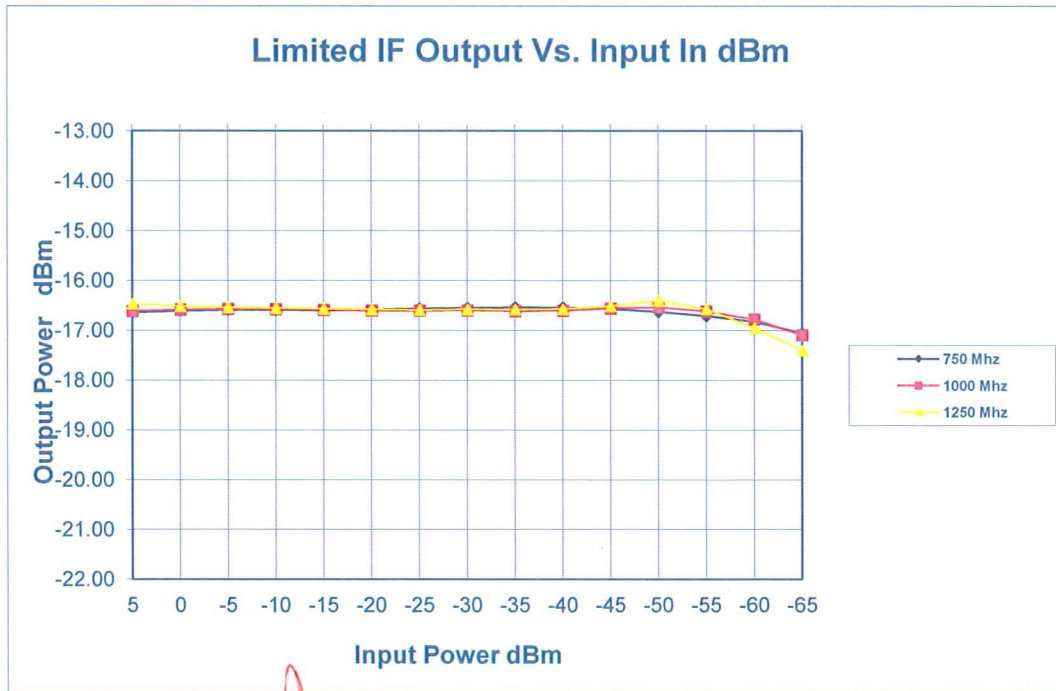
PLANAR MONOLITHICS INDUSTRIES
 7311-F GROVE RD. FREDERICK, MD. 21704
 TEL: 301-631-1579 FAX: 301-662-2029
 URL: WWW.PLANARMONOLITHICS.COM
 EMAIL: SALES@PLANARMONOLITHICS.COM

ISO 9001:2000 CERTIFIED

LIMITED OUTPUT WITH FREQUENCY AND POWER

Part Number: SLVAC-06135M-MA08 Date: 1/7/2013 - Verified 2/19/13
 Serial #: PL12269 Technician: H. Gonzales - S. Palacio
 Temperature: +25 C Equipment used: E3631A-34401A-E4418B-HP8350B
 Customer: _____

| Input Power dBm | FREQUENCY | | |
|--------------------|-----------|---------|----------|
| | 600 Mhz | 975 Mhz | 1350 Mhz |
| 5 | -16.64 | -16.61 | -16.46 |
| 0 | -16.61 | -16.58 | -16.51 |
| -5 | -16.59 | -16.57 | -16.53 |
| -10 | -16.59 | -16.57 | -16.55 |
| -15 | -16.59 | -16.59 | -16.56 |
| -20 | -16.58 | -16.60 | -16.58 |
| -25 | -16.56 | -16.60 | -16.58 |
| -30 | -16.55 | -16.60 | -16.58 |
| -35 | -16.54 | -16.61 | -16.58 |
| -40 | -16.54 | -16.60 | -16.57 |
| -45 | -16.57 | -16.56 | -16.51 |
| -50 | -16.63 | -16.53 | -16.40 |
| -55 | -16.71 | -16.62 | -16.57 |
| -60 | -16.83 | -16.78 | -16.95 |
| -65 | -17.06 | -17.09 | -17.40 |
| Result | PASS | PASS | PASS |



QA/QC

[Handwritten signature]

PMI
QA 2

DATE 2/19/13



PLAMAR MONOLITHICS INDUSTRIES
 7314-C CROSS ROAD, FREDERICK, MD 21704
 TEL: 301-451-1471 FAX: 301-451-2929
 URL: WWW.PMARI.COM

SIN: PL12269/1250
 + 25 C

SDLVA SLVAC-06135M-MA08
 LOG TRANSFER WITH FREQUENCY

| INPUT POWER (dBm) | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---|---|
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|---|---|

| | |
|-----------|---------------|
| FREQUENCY | 600 mHz |
| SLOPE | 25.6283 mv/db |
| INTERCEPT | 1472.8 mv |

| | | | | | | | | | | | | | | |
|------|-----|----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| -173 | -60 | 55 | 194 | 304 | 449 | 571 | 695 | 829 | 960 | 1077 | 1229 | 1341 | 1494 | 1596 |
| 20 | 5 | -8 | 3 | -16 | 1 | -5 | -9 | -4 | 0 | -11 | 13 | -4 | 21 | -5 |

| | |
|----------------------|--|
| Measured Values (mv) | |
| Error (mv) | |

| | |
|-----------|---------------|
| FREQUENCY | 975 mHz |
| SLOPE | 23.6013 mv/db |
| INTERCEPT | 1326.98 mv |

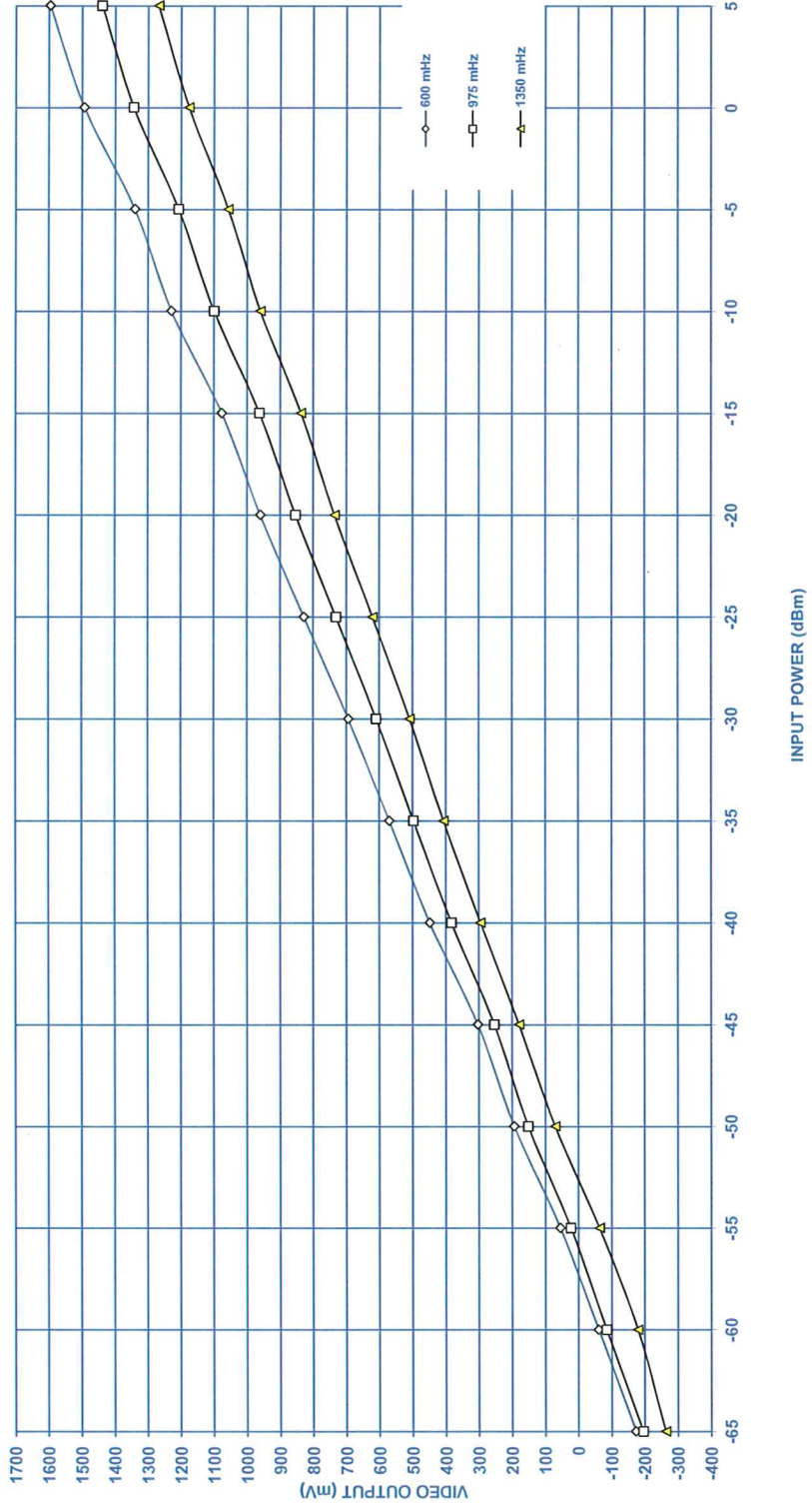
| | | | | | | | | | | | | | | |
|------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| -195 | -65 | 23 | 152 | 254 | 383 | 499 | 611 | 733 | 854 | 963 | 1100 | 1208 | 1344 | 1440 |
| 12 | 4 | -6 | 5 | -11 | 0 | -2 | -8 | -4 | -1 | -10 | 9 | -1 | 17 | -5 |

| | |
|----------------------|--|
| Measured Values (mv) | |
| Error (mv) | |

| | |
|-----------|---------------|
| FREQUENCY | 1350 mHz |
| SLOPE | 22.2063 mv/db |
| INTERCEPT | 1174.12 mv |

| | | | | | | | | | | | | | | |
|------|------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| -263 | -179 | -63 | 71 | 180 | 295 | 407 | 510 | 622 | 737 | 838 | 961 | 1058 | 1176 | 1269 |
| 7 | -21 | -16 | 7 | 5 | 10 | 10 | 2 | 3 | 7 | -3 | 9 | -5 | 2 | -16 |

| | |
|----------------------|--|
| Measured Values (mv) | |
| Error (mv) | |



PL12269

| Frequency | Input Power | Output Power | Video Output (Millivolts) | Corrected Output Power (dBm) |
|-----------|-------------|--------------|------------------------------|------------------------------------|
| 600 | -65 | -17.757 | -0.173 | -17.06 |
| 600 | -60 | -17.525 | -0.06 | -16.83 |
| 600 | -55 | -17.407 | 0.0549 | -16.71 |
| 600 | -50 | -17.325 | 0.194 | -16.63 |
| 600 | -45 | -17.268 | 0.3038 | -16.57 |
| 600 | -40 | -17.241 | 0.4488 | -16.54 |
| 600 | -35 | -17.237 | 0.5707 | -16.54 |
| 600 | -30 | -17.251 | 0.695 | -16.55 |
| 600 | -25 | -17.265 | 0.8286 | -16.56 |
| 600 | -20 | -17.284 | 0.9601 | -16.58 |
| 600 | -15 | -17.292 | 1.0771 | -16.59 |
| 600 | -10 | -17.290 | 1.2291 | -16.59 |
| 600 | -5 | -17.280 | 1.3407 | -16.59 |
| 600 | 0 | -17.305 | 1.4936 | -16.61 |
| 600 | 5 | -17.338 | 1.5964 | -16.64 |
| 975 | -65 | -17.792 | -0.195 | -17.09 |
| 975 | -60 | -17.477 | -0.085 | -16.78 |
| 975 | -55 | -17.317 | 0.0231 | -16.62 |
| 975 | -50 | -17.235 | 0.1517 | -16.53 |
| 975 | -45 | -17.258 | 0.254 | -16.56 |
| 975 | -40 | -17.303 | 0.3832 | -16.60 |
| 975 | -35 | -17.308 | 0.4985 | -16.61 |
| 975 | -30 | -17.297 | 0.6111 | -16.60 |
| 975 | -25 | -17.298 | 0.7327 | -16.60 |
| 975 | -20 | -17.289 | 0.8543 | -16.60 |
| 975 | -15 | -17.286 | 0.9632 | -16.59 |
| 975 | -10 | -17.270 | 1.1005 | -16.57 |
| 975 | -5 | -17.266 | 1.2077 | -16.57 |
| 975 | 0 | -17.282 | 1.3443 | -16.58 |
| 975 | 5 | -17.309 | 1.4998 | -16.61 |
| 1350 | -65 | -18.100 | -0.263 | -17.40 |
| 1350 | -60 | -17.651 | -0.179 | -16.95 |
| 1350 | -55 | -17.269 | -0.063 | -16.57 |
| 1350 | -50 | -17.101 | 0.0705 | -16.40 |
| 1350 | -45 | -17.208 | 0.1796 | -16.51 |
| 1350 | -40 | -17.270 | 0.2955 | -16.57 |
| 1350 | -35 | -17.278 | 0.4074 | -16.58 |
| 1350 | -30 | -17.277 | 0.5101 | -16.58 |
| 1350 | -25 | -17.285 | 0.6222 | -16.58 |
| 1350 | -20 | -17.276 | 0.7373 | -16.58 |
| 1350 | -15 | -17.263 | 0.8377 | -16.56 |
| 1350 | -10 | -17.250 | 0.9606 | -16.55 |
| 1350 | -5 | -17.235 | 1.0577 | -16.53 |
| 1350 | 0 | -17.209 | 1.1764 | -16.51 |
| 1350 | 5 | -17.163 | 1.2688 | -16.46 |