



**Tested By: Joshua Monley**

**Temperature: 0°C TO +85°C**

**Date 5/30/2024**

Drawing No: 27637945 Rev: A1

Rev: A1

PMI  
QA3



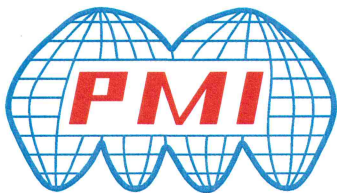
**Summary Data  
For  
EWDM-2G6G-65-70MV-1**

|    |                                   |                                              |                                        |            |
|----|-----------------------------------|----------------------------------------------|----------------------------------------|------------|
| 13 | SW Linear Gain                    | +7 dB MIN, 15 dB MAX                         | <b>+12.09 dB MAX<br/>+10.58 dB MIN</b> | PMI<br>QA3 |
| 14 | SW Frequency Flatness:            | ±1.2 dB MAX                                  | <b>±0.8 dB</b>                         |            |
| 15 | SW 1 dB Compression Point:        | +3 dBm MIN                                   | <b>+6.9 dBm</b>                        |            |
| 16 | SW Second Harmonic:               | -9 dBc MIN                                   | <b>-23 dBc</b>                         |            |
| 17 | SW Third Harmonic:                | -12 dBc MIN                                  | <b>-45 dBc</b>                         |            |
| 18 | VIDEO OUT TSS:                    | -71 dBm MAX                                  | <b>-71.5 dBm</b>                       |            |
| 19 | VIDEO OUT Dynamic Range:          | -65 to 0 dBm                                 | <b>-65 to 0 dBm</b>                    |            |
| 20 | VIDEO OUT Log Slope Fixed:        | 70 ± 3mV/dB                                  | <b>68.9 mV/dB</b>                      |            |
| 21 | VIDEO OUT Log Linearity:          | ±0.75 dB MAX @ 4 GHZ                         | <b>±0.26 dB</b>                        |            |
| 22 | VIDEO OUT Log Accuracy:           | ±1.25 dB MAX                                 | <b>±0.95 dB</b>                        |            |
| 23 | VIDEO OUT Absolute Log Accuracy:  | ±1.5 dB MAX                                  | <b>±1.01 dB</b>                        |            |
| 24 | VIDEO OUT DC Offset:              | 0 ±70 mV (RF Input Terminated & DC Power On) | <b>28 mV</b>                           |            |
| 25 | VIDEO OUT Rise Time (10% to 90%): | 25 ns TYP 28 ns MAX                          | <b>25.8 ns</b>                         |            |
| 26 | VIDEO OUT Fall Time (90% to 10%): | 300 ns MAX                                   | <b>165.9 ns</b>                        |            |
| 27 | VIDEO OUT Settling Time:          | 50 ns With in ±70 mV of final value, MAX     | <b>33.82 ns</b>                        |            |
| 28 | VIDEO OUT Recovery Time:          | 0.5 us MAX to within 1 dB of baseline        | <b>0.343 us</b>                        |            |



**Summary Data  
For  
EWDM-2G6G-65-70MV-1**

|    |                                          |                                                                                                                      |                  |         |
|----|------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------|---------|
| 29 | VIDEO OUT Video Frequency Flatness:      | $\pm 1.0$ dB MAX                                                                                                     | $\pm 0.62$ dB    | PMI QA3 |
| 30 | VIDEO OUT CW Immunity:                   | A. CW Immune Power TSS to -40 dBm Baseline Shift: 200 mV MAX                                                         | < 200 mV         |         |
|    |                                          | B. Pulse Peak Amplitude Loss; 2 dB MAX                                                                               | < 2 dB           |         |
|    |                                          |                                                                                                                      |                  |         |
|    |                                          | CW Immunity Time at CW = -40 dBm, $\leq 4$ ms                                                                        | 1.42 ms          |         |
|    |                                          | CW Recovery Time at CW = -40 dBm, $\leq 50$ us                                                                       | < 50 us          |         |
| 31 | VIDEO OUT Pulse Response, input Signal:  | 100 ns to 300 us                                                                                                     | 100 ns to 300 us |         |
| 32 | VIDEO OUT load Impedance:                | $75 \pm 1 \Omega$                                                                                                    | 75 $\Omega$      |         |
| 33 | VIDEO OUT Video Output driver capability | 150 ft. RG11 into 75 ohm load                                                                                        | PASS             |         |
| 34 | Pulse density capability:                | 10% duty cycle 100ns; 70% duty cycle 300us at peak power -10 dBm with 1 dB variable for pulse amplitude and baseline | PASS             |         |
| 35 | VIDEO OUT Noise Level (Vp-p):            | 150 mV TYP                                                                                                           | < 150 mV         |         |



**Summary Data  
For  
EWDM-2G6G-65-70MV-1**

|    |                                                          |                                           |                                  |            |
|----|----------------------------------------------------------|-------------------------------------------|----------------------------------|------------|
| 36 | Droop of the Output<br>Video Pulse @ 300us & -<br>65 dBm | 70mV (1 dB) MAX                           | < 70 mV                          | PMI<br>QA3 |
| 37 | VIDEO OUT<br>Propagation Delay:                          | 50 ns MAX Excluding cable                 | 40 ns                            |            |
| 38 | Power Supply                                             | +15 V @ 1000 mA MAX<br>-15 V @ 500 mA MAX | +15 V @ 625 mA<br>-15 V @ 140 mA |            |
| 39 | Power Supply Ripple<br>From DC to 10 MHz                 | 100 mV MAX                                | PASS                             |            |

QA/QC Approval: *K. Kuter*

Date: 5.31.24



## Summary Data For EWDM-2G6G-65-70MV-1

Model: EWDM-2G6G-65-70MV-1  
Serial No: PL42359  
Date:: 5/30/2024  
Tested By: F. Cortes  
Test Temp: +25°C  
Input Port: RF Port

DC Offset: 28 mV



Frequency

|       |                |      |
|-------|----------------|------|
| 2 GHz | INTERCEPT (mV) | 4913 |
|       | SLOPE (mV/dB)  | 69.3 |
|       | MAX LIN ERROR  | 0.33 |
|       | MAX ACC ERROR  | 0.95 |

| -65   | -60   | -55   | -50   | -45  | -40  | -35  | -30  | -25   | -20  | -15  | -10  | -5    | 0     |
|-------|-------|-------|-------|------|------|------|------|-------|------|------|------|-------|-------|
| 393   | 749   | 1101  | 1442  | 1813 | 2151 | 2511 | 2839 | 3171  | 3542 | 3874 | 4224 | 4560  | 4892  |
| -18   | -8    | -2    | -7    | 17   | 9    | 23   | 4    | -10   | 15   | 0    | 4    | -6    | -21   |
| -0.25 | -0.11 | -0.03 | -0.11 | 0.25 | 0.13 | 0.33 | 0.06 | -0.14 | 0.21 | 0.00 | 0.06 | -0.09 | -0.30 |
| 0.50  | 0.62  | 0.68  | 0.58  | 0.91 | 0.77 | 0.95 | 0.66 | 0.43  | 0.76 | 0.54 | 0.57 | 0.40  | 0.17  |

RF Input Power (dBm)

|                      |      |
|----------------------|------|
| Measured Value (mV)  | 4913 |
| ERROR (mV)           | 0.33 |
| LINEARITY ERROR (dB) | 0.33 |
| LOG ACCURACY (dB)    | 0.95 |

|       |                |      |
|-------|----------------|------|
| 3 GHz | INTERCEPT (mV) | 4894 |
|       | SLOPE (mV/dB)  | 68.9 |
|       | MAX LIN ERROR  | 0.33 |
|       | MAX ACC ERROR  | 0.93 |

|       |       |      |       |      |      |      |       |       |      |       |       |       |      |
|-------|-------|------|-------|------|------|------|-------|-------|------|-------|-------|-------|------|
| 396   | 750   | 1103 | 1443  | 1814 | 2148 | 2503 | 2824  | 3158  | 3516 | 3846  | 4200  | 4541  | 4902 |
| -17   | -7    | 1    | -4    | 23   | 12   | 22   | -1    | -12   | 1    | -14   | -4    | -8    | 8    |
| -0.24 | -0.11 | 0.01 | -0.05 | 0.33 | 0.17 | 0.32 | -0.02 | -0.18 | 0.02 | -0.20 | -0.06 | -0.12 | 0.12 |
| 0.55  | 0.63  | 0.71 | 0.59  | 0.93 | 0.73 | 0.83 | 0.44  | 0.24  | 0.39 | 0.13  | 0.22  | 0.12  | 0.31 |

|                      |      |
|----------------------|------|
| Measured Value (mV)  | 4894 |
| ERROR (mV)           | 0.33 |
| LINEARITY ERROR (dB) | 0.33 |
| LOG ACCURACY (dB)    | 0.93 |

|       |                |      |
|-------|----------------|------|
| 4 GHz | INTERCEPT (mV) | 4873 |
|       | SLOPE (mV/dB)  | 69.5 |
|       | MAX LIN ERROR  | 0.25 |
|       | MAX ACC ERROR  | 0.28 |

|       |      |       |       |      |      |      |      |       |       |       |       |       |      |
|-------|------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|------|
| 347   | 706  | 1049  | 1396  | 1765 | 2099 | 2460 | 2795 | 3132  | 3495  | 3817  | 4175  | 4516  | 4884 |
| -12   | 0    | -4    | -5    | 17   | 4    | 17   | 5    | -5    | 1     | -15   | -4    | -10   | 11   |
| -0.17 | 0.00 | -0.06 | -0.07 | 0.25 | 0.05 | 0.25 | 0.08 | -0.07 | 0.01  | -0.21 | -0.06 | -0.15 | 0.15 |
| -0.16 | 0.00 | -0.07 | -0.08 | 0.22 | 0.02 | 0.21 | 0.03 | -0.13 | -0.06 | -0.28 | -0.14 | -0.24 | 0.05 |

|                      |      |
|----------------------|------|
| Measured Value (mV)  | 4873 |
| ERROR (mV)           | 0.25 |
| LINEARITY ERROR (dB) | 0.25 |
| LOG ACCURACY (dB)    | 0.28 |

|       |                |      |
|-------|----------------|------|
| 5 GHz | INTERCEPT (mV) | 4892 |
|       | SLOPE (mV/dB)  | 69.9 |
|       | MAX LIN ERROR  | 0.28 |
|       | MAX ACC ERROR  | 0.29 |

|       |       |       |       |      |      |      |      |       |      |       |       |       |      |
|-------|-------|-------|-------|------|------|------|------|-------|------|-------|-------|-------|------|
| 338   | 699   | 1042  | 1389  | 1759 | 2099 | 2465 | 2804 | 3141  | 3496 | 3830  | 4191  | 4534  | 4896 |
| -11   | 1     | -6    | -9    | 13   | 3    | 20   | 9    | -3    | 2    | -13   | -2    | -8    | 4    |
| -0.15 | 0.01  | -0.08 | -0.11 | 0.18 | 0.04 | 0.28 | 0.13 | -0.05 | 0.03 | -0.19 | -0.03 | -0.12 | 0.06 |
| -0.29 | -0.10 | -0.17 | -0.18 | 0.14 | 0.02 | 0.28 | 0.16 | 0.00  | 0.10 | -0.10 | 0.09  | 0.02  | 0.22 |

|                      |      |
|----------------------|------|
| Measured Value (mV)  | 4892 |
| ERROR (mV)           | 0.28 |
| LINEARITY ERROR (dB) | 0.28 |
| LOG ACCURACY (dB)    | 0.29 |

|       |                |      |
|-------|----------------|------|
| 6 GHz | INTERCEPT (mV) | 4890 |
|       | SLOPE (mV/dB)  | 70.3 |
|       | MAX LIN ERROR  | 0.26 |
|       | MAX ACC ERROR  | 0.55 |

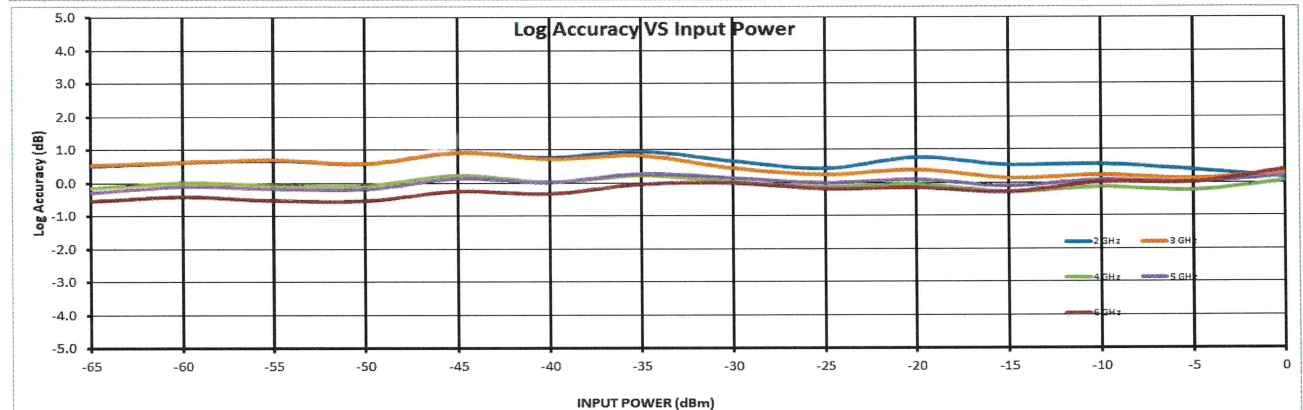
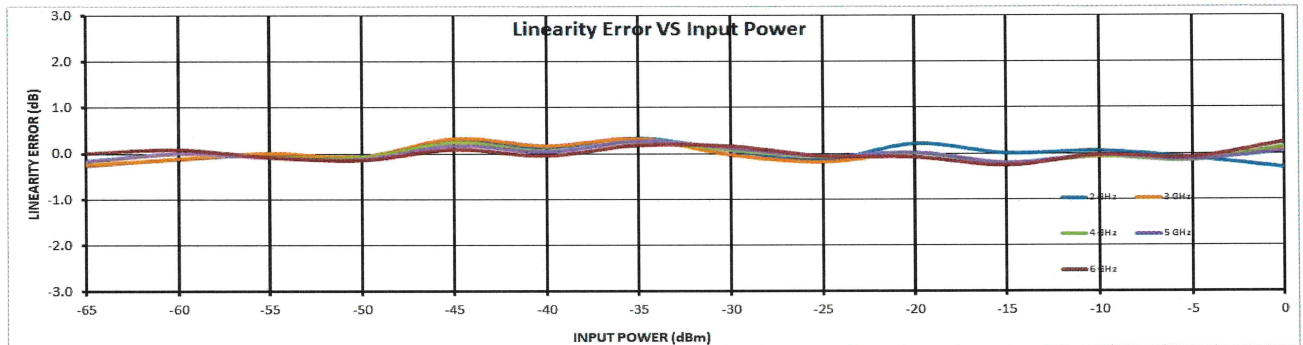
|       |       |       |       |       |       |       |       |       |       |       |       |       |      |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 320   | 677   | 1017  | 1364  | 1732  | 2074  | 2442  | 2792  | 3128  | 3478  | 3817  | 4185  | 4533  | 4908 |
| 1     | 6     | -6    | -10   | 6     | -3    | 13    | 11    | -4    | -6    | -18   | -2    | -6    | 18   |
| 0.01  | 0.09  | -0.08 | -0.14 | 0.09  | -0.05 | 0.19  | 0.16  | -0.06 | -0.08 | -0.26 | -0.03 | -0.08 | 0.25 |
| -0.55 | -0.42 | -0.53 | -0.54 | -0.25 | -0.34 | -0.05 | -0.02 | -0.19 | -0.16 | -0.28 | 0.01  | 0.01  | 0.40 |

|                      |      |
|----------------------|------|
| Measured Value (mV)  | 4890 |
| ERROR (mV)           | 0.26 |
| LINEARITY ERROR (dB) | 0.26 |
| LOG ACCURACY (dB)    | 0.55 |

AVG. SLOPE: 69.6 mV/dB

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.55 | 0.52 | 0.62 | 0.57 | 0.59 | 0.55 | 0.50 | 0.34 | 0.31 | 0.46 | 0.41 | 0.35 | 0.32 | 0.17 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

Flatness dB: ±0.62 dB





## Summary Data For EWDM-2G6G-65-70MV-1

Model: EWDM-2G6G-65-70MV-1  
Serial No: PL42359  
Date: 05/30/2024  
Tested By: F. Cortes  
Test Temp: +25°C  
Input Port: BIT Port

DC Offset: 28 mV



Frequency

|       |                |      |
|-------|----------------|------|
| 2 GHz | INTERCEPT (mV) | 4906 |
|       | SLOPE (mV/dB)  | 69.3 |
|       | MAX LIN ERROR  | 0.33 |
|       | MAX ACC ERROR  | 0.95 |

|       |                |      |
|-------|----------------|------|
| 3 GHz | INTERCEPT (mV) | 4887 |
|       | SLOPE (mV/dB)  | 68.9 |
|       | MAX LIN ERROR  | 0.32 |
|       | MAX ACC ERROR  | 0.95 |

|       |                |      |
|-------|----------------|------|
| 4 GHz | INTERCEPT (mV) | 4868 |
|       | SLOPE (mV/dB)  | 69.4 |
|       | MAX LIN ERROR  | 0.26 |
|       | MAX ACC ERROR  | 0.26 |

|       |                |      |
|-------|----------------|------|
| 5 GHz | INTERCEPT (mV) | 4887 |
|       | SLOPE (mV/dB)  | 69.9 |
|       | MAX LIN ERROR  | 0.28 |
|       | MAX ACC ERROR  | 0.32 |

|       |                |      |
|-------|----------------|------|
| 6 GHz | INTERCEPT (mV) | 4886 |
|       | SLOPE (mV/dB)  | 70.3 |
|       | MAX LIN ERROR  | 0.27 |
|       | MAX ACC ERROR  | 0.53 |

AVG. SLOPE: 69.6 mV/dB

|            | -65   | -60   | -55   | -50   | -45   | -40   | -35   | -30   | -25   | -20   | -15   | -10   | -5    | 0     |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2 GHz      | 388   | 744   | 1095  | 1435  | 1805  | 2144  | 2505  | 2833  | 3166  | 3536  | 3868  | 4218  | 4554  | 4884  |
|            | -17   | -7    | -2    | -8    | 15    | 8     | 23    | 5     | -9    | 15    | 1     | 5     | -6    | -22   |
|            | -0.24 | -0.10 | -0.03 | -0.12 | 0.22  | 0.12  | 0.33  | 0.07  | -0.13 | 0.22  | 0.01  | 0.07  | -0.08 | -0.32 |
|            | 0.52  | 0.64  | 0.68  | 0.57  | 0.89  | 0.76  | 0.95  | 0.67  | 0.46  | 0.78  | 0.55  | 0.58  | 0.41  | 0.16  |
| 3 GHz      | 389   | 749   | 1099  | 1440  | 1809  | 2143  | 2498  | 2820  | 3153  | 3509  | 3840  | 4194  | 4535  | 4896  |
|            | -20   | -4    | 1     | -2    | 22    | 12    | 22    | 0     | -12   | 0     | -14   | -4    | -8    | 9     |
|            | -0.29 | -0.06 | 0.02  | -0.04 | 0.32  | 0.17  | 0.32  | -0.01 | -0.17 | -0.01 | -0.20 | -0.06 | -0.11 | 0.13  |
|            | 0.53  | 0.71  | 0.74  | 0.64  | 0.95  | 0.75  | 0.85  | 0.48  | 0.27  | 0.39  | 0.15  | 0.24  | 0.14  | 0.33  |
| 4 GHz      | 342   | 702   | 1048  | 1392  | 1761  | 2094  | 2456  | 2791  | 3128  | 3480  | 3812  | 4170  | 4511  | 4878  |
|            | -14   | -1    | -2    | -5    | 17    | 3     | 18    | 6     | -4    | 0     | -15   | -4    | -10   | 10    |
|            | -0.20 | -0.01 | -0.03 | -0.07 | 0.24  | 0.04  | 0.26  | 0.08  | -0.06 | 0.01  | -0.21 | -0.05 | -0.14 | 0.14  |
|            | -0.14 | 0.03  | 0.01  | -0.05 | 0.26  | 0.05  | 0.25  | 0.07  | -0.09 | -0.03 | -0.25 | -0.11 | -0.20 | 0.07  |
| 5 GHz      | 334   | 695   | 1038  | 1386  | 1755  | 2095  | 2461  | 2800  | 3138  | 3492  | 3826  | 4186  | 4529  | 4891  |
|            | -11   | 1     | -6    | -7    | 12    | 3     | 20    | 9     | -2    | 2     | -13   | -2    | -9    | 4     |
|            | -0.16 | 0.01  | -0.08 | -0.10 | 0.18  | 0.04  | 0.28  | 0.13  | -0.03 | 0.03  | -0.19 | -0.04 | -0.13 | 0.05  |
|            | -0.26 | -0.07 | -0.14 | -0.13 | 0.17  | 0.06  | 0.32  | 0.20  | 0.06  | 0.15  | -0.05 | 0.12  | 0.06  | 0.26  |
| 6 GHz      | 315   | 672   | 1014  | 1362  | 1728  | 2071  | 2438  | 2789  | 3125  | 3474  | 3812  | 4180  | 4529  | 4903  |
|            | -1    | 5     | -6    | -8    | 6     | -3    | 13    | 12    | -3    | -6    | -19   | -3    | -6    | 17    |
|            | -0.01 | 0.07  | -0.07 | -0.12 | 0.09  | -0.04 | 0.18  | 0.18  | -0.05 | -0.08 | -0.27 | -0.04 | -0.08 | 0.24  |
|            | -0.53 | -0.40 | -0.48 | -0.48 | -0.22 | -0.28 | -0.01 | 0.04  | -0.13 | -0.11 | -0.25 | 0.04  | 0.06  | 0.43  |
| AVG. SLOPE | 0.53  | 0.55  | 0.61  | 0.56  | 0.58  | 0.52  | 0.48  | 0.32  | 0.29  | 0.45  | 0.40  | 0.35  | 0.31  | 0.18  |

RF Input Power (dBm)

|                      |  |
|----------------------|--|
| Measured Value (mV)  |  |
| ERROR (mV)           |  |
| LINEARITY ERROR (dB) |  |
| LOG ACCURACY (dB)    |  |

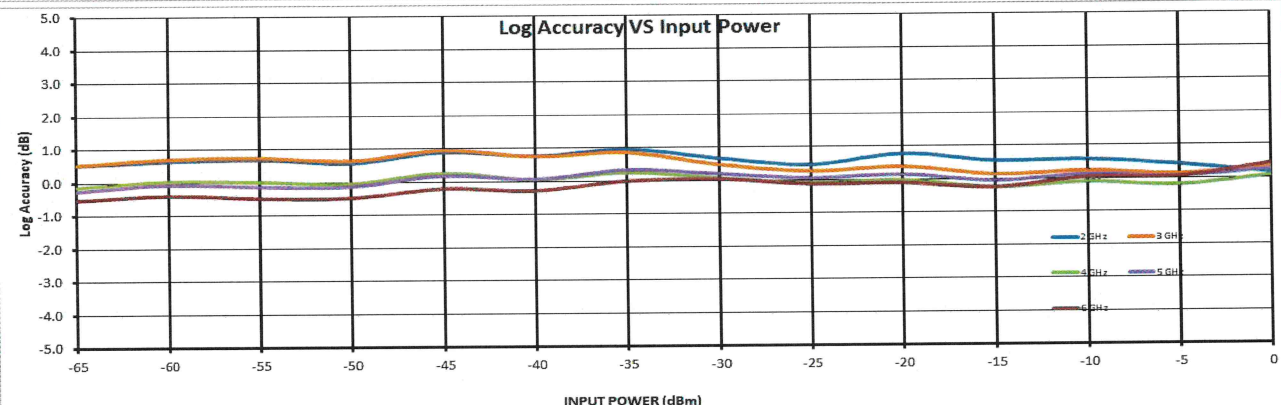
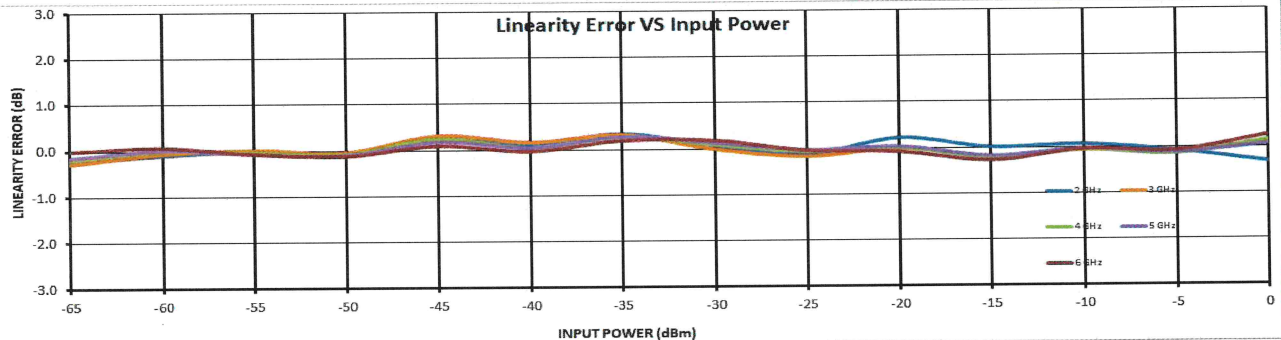
|                      |  |
|----------------------|--|
| Measured Value (mV)  |  |
| ERROR (mV)           |  |
| LINEARITY ERROR (dB) |  |
| LOG ACCURACY (dB)    |  |

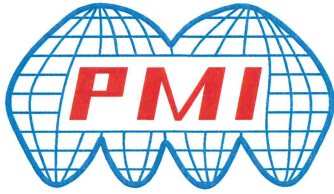
|                      |  |
|----------------------|--|
| Measured Value (mV)  |  |
| ERROR (mV)           |  |
| LINEARITY ERROR (dB) |  |
| LOG ACCURACY (dB)    |  |

|                      |  |
|----------------------|--|
| Measured Value (mV)  |  |
| ERROR (mV)           |  |
| LINEARITY ERROR (dB) |  |
| LOG ACCURACY (dB)    |  |

|                      |  |
|----------------------|--|
| Measured Value (mV)  |  |
| ERROR (mV)           |  |
| LINEARITY ERROR (dB) |  |
| LOG ACCURACY (dB)    |  |

Flatness dB: ±0.61 dB





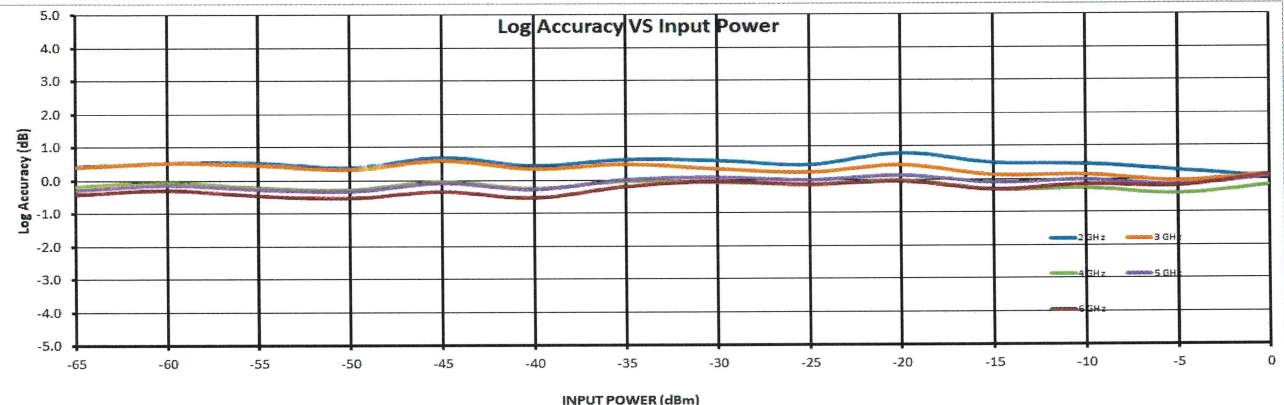
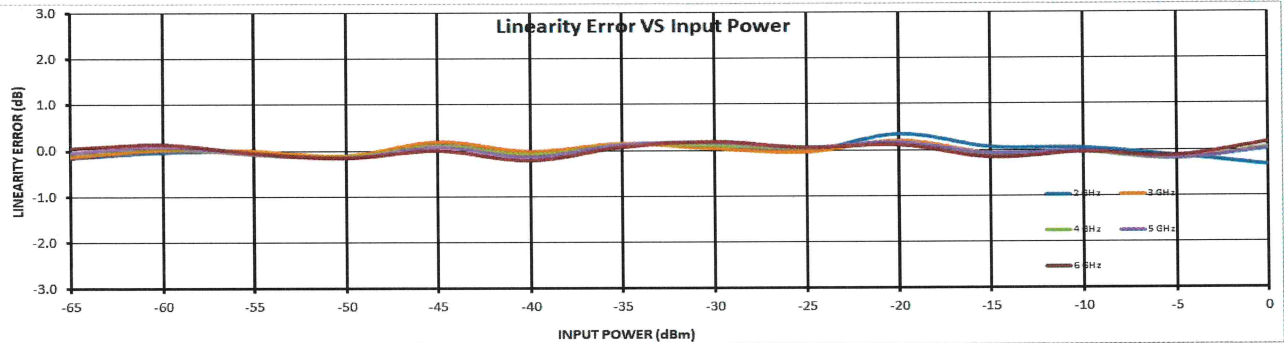
## Summary Data For EWDM-2G6G-65-70MV-1

Model: EWDM-2G6G-65-70MV-1  
Serial No: PL42359  
Date:: 05/30/2024  
Tested By: J. Monley  
Test Temp: 0°C  
Input Port: RF Port

DC Offset: 18 mV



| Frequency              |                | -65  | -60   | -55   | -50   | -45   | -40   | -35   | -30   | -25   | -20   | -15   | -10   | -5    | 0     | RF Input Power (dBm) |
|------------------------|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| 2 GHz                  | INTERCEPT (mV) | 4955 | 364   | 725   | 1078  | 1421  | 1796  | 2132  | 2498  | 2849  | 3193  | 3571  | 3903  | 4264  | 4594  | 4932                 |
|                        | SLOPE (mV/dB)  | 70.5 | -11   | -2    | -2    | -11   | 12    | -5    | 9     | 8     | 0     | 25    | 5     | 4     | -9    | -23                  |
|                        | MAX LIN ERROR  | 0.36 | -0.15 | -0.03 | -0.02 | -0.16 | 0.17  | -0.06 | 0.13  | 0.11  | -0.01 | 0.36  | 0.07  | 0.05  | -0.13 | -0.33                |
|                        | MAX ACC ERROR  | 0.79 | 0.41  | 0.52  | 0.51  | 0.37  | 0.67  | 0.43  | 0.60  | 0.57  | 0.44  | 0.79  | 0.48  | 0.45  | 0.26  | 0.04                 |
| 3 GHz                  | INTERCEPT (mV) | 4936 | 363   | 725   | 1074  | 1418  | 1790  | 2126  | 2489  | 2832  | 3178  | 3546  | 3878  | 4232  | 4572  | 4939                 |
|                        | SLOPE (mV/dB)  | 70.2 | -10   | 1     | -1    | -8    | 13    | -2    | 10    | 2     | -3    | 14    | -5    | -2    | -13   | 3                    |
|                        | MAX LIN ERROR  | 0.2  | -0.14 | 0.02  | -0.01 | -0.11 | 0.19  | -0.03 | 0.14  | 0.03  | -0.04 | 0.20  | -0.07 | -0.03 | -0.19 | 0.04                 |
|                        | MAX ACC ERROR  | 0.59 | 0.40  | 0.52  | 0.46  | 0.32  | 0.59  | 0.34  | 0.48  | 0.33  | 0.23  | 0.43  | 0.13  | 0.14  | -0.05 | 0.14                 |
| 4 GHz                  | INTERCEPT (mV) | 4912 | 322   | 684   | 1026  | 1376  | 1745  | 2084  | 2452  | 2803  | 3161  | 3513  | 3847  | 4203  | 4545  | 4916                 |
|                        | SLOPE (mV/dB)  | 70.5 | -4    | 5     | -6    | -10   | 8     | -6    | 9     | 8     | 3     | 12    | -6    | -3    | -14   | 4                    |
|                        | MAX LIN ERROR  | 0.2  | -0.06 | 0.07  | -0.08 | -0.13 | 0.11  | -0.08 | 0.13  | 0.11  | 0.04  | 0.17  | -0.09 | -0.05 | -0.20 | 0.06                 |
|                        | MAX ACC ERROR  | 0.43 | -0.18 | -0.06 | -0.22 | -0.28 | -0.05 | -0.26 | -0.05 | -0.08 | -0.16 | -0.03 | -0.31 | -0.27 | -0.43 | -0.18                |
| 5 GHz                  | INTERCEPT (mV) | 4932 | 314   | 678   | 1022  | 1371  | 1742  | 2082  | 2456  | 2814  | 3161  | 3524  | 3862  | 4221  | 4564  | 4934                 |
|                        | SLOPE (mV/dB)  | 71   | -3    | 6     | -5    | -11   | 5     | -10   | 9     | 12    | 4     | 12    | -5    | -1    | -13   | 2                    |
|                        | MAX LIN ERROR  | 0.19 | -0.04 | 0.08  | -0.07 | -0.16 | 0.07  | -0.14 | 0.12  | 0.17  | 0.05  | 0.17  | -0.07 | -0.02 | -0.19 | 0.02                 |
|                        | MAX ACC ERROR  | 0.34 | -0.30 | -0.15 | -0.28 | -0.34 | -0.09 | -0.28 | 0.01  | 0.08  | -0.01 | 0.12  | -0.10 | -0.02 | -0.16 | 0.07                 |
| 6 GHz                  | INTERCEPT (mV) | 4927 | 306   | 668   | 1010  | 1358  | 1725  | 2065  | 2442  | 2806  | 3152  | 3512  | 3848  | 4212  | 4562  | 4939                 |
|                        | SLOPE (mV/dB)  | 71.2 | 4     | 10    | -4    | -11   | 0     | -16   | 5     | 13    | 4     | 8     | -12   | -4    | -9    | 12                   |
|                        | MAX LIN ERROR  | 0.22 | 0.05  | 0.14  | -0.05 | -0.16 | 0.00  | -0.22 | 0.07  | 0.19  | 0.05  | 0.11  | -0.17 | -0.05 | -0.13 | 0.17                 |
|                        | MAX ACC ERROR  | 0.53 | -0.41 | -0.29 | -0.45 | -0.53 | -0.33 | -0.52 | -0.19 | -0.04 | -0.14 | -0.05 | -0.29 | -0.14 | -0.19 | 0.14                 |
| AVG. SLOPE: 70.7 mV/dB |                | 0.41 | 0.40  | 0.48  | 0.45  | 0.50  | 0.47  | 0.40  | 0.33  | 0.30  | 0.42  | 0.40  | 0.36  | 0.35  | 0.16  | Flatness dB: ±0.5 dB |





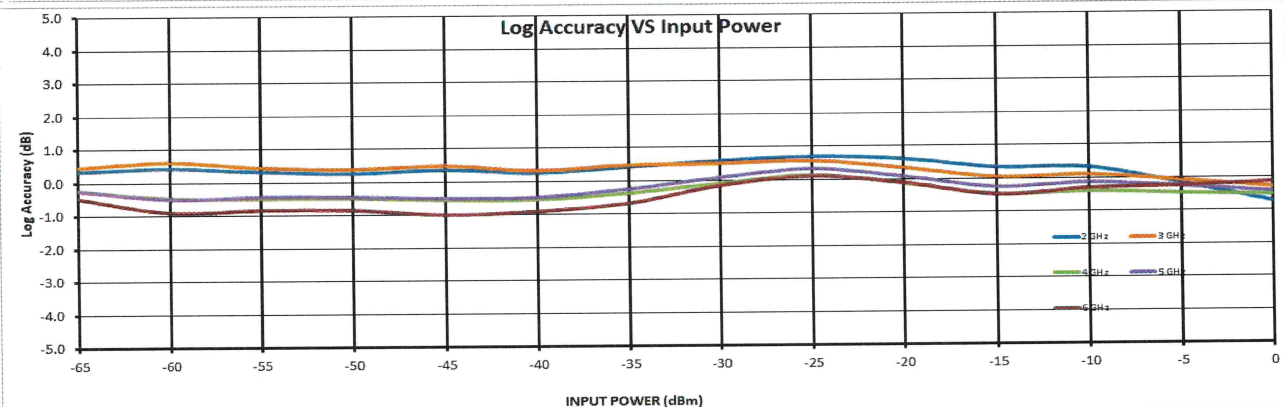
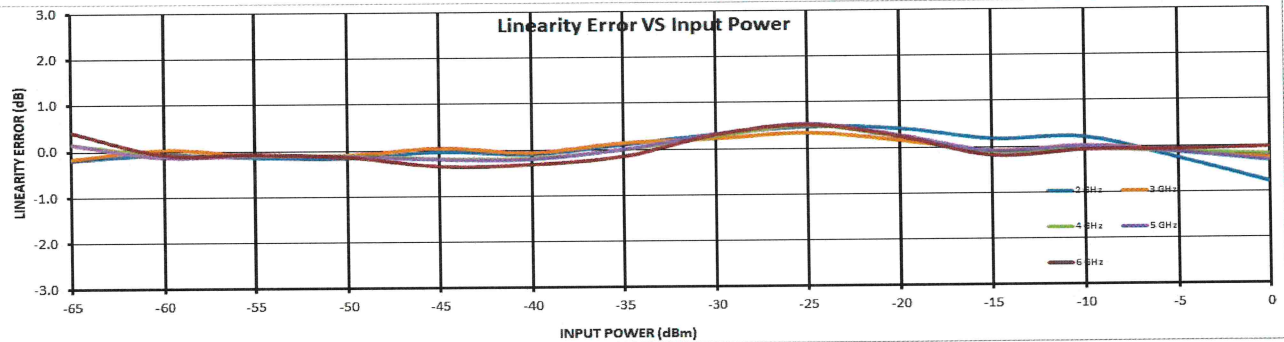
## Summary Data For EWDM-2G6G-65-70MV-1

Model: EWDM-2G6G-65-70MV-1  
Serial No: PL42359  
Date:: 06/30/2024  
Tested By: J. Monley  
Test Temp: +85°C  
Input Port: RF Port

DC Offset: 10 mV



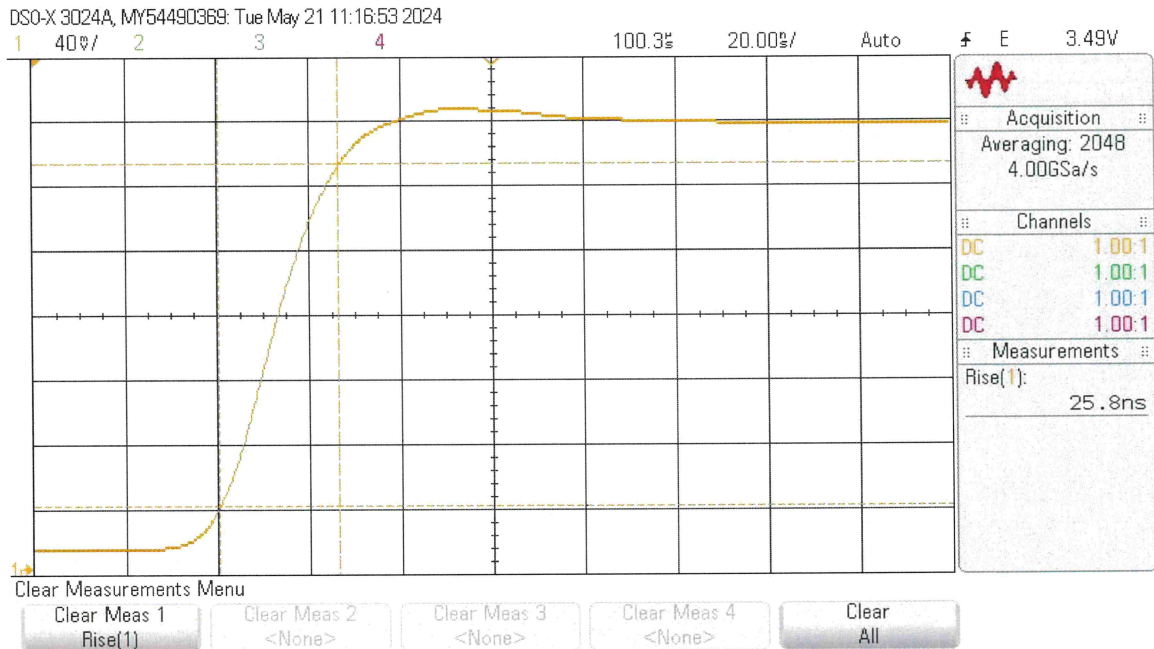
| Frequency              |                | -65   | -60   | -55   | -50   | -45   | -40   | -35   | -30   | -25  | -20   | -15   | -10   | -5    | 0     | RF Input Power (dBm)  |
|------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-----------------------|
| 2 GHz                  | INTERCEPT (mV) | 233   | 584   | 921   | 1262  | 1613  | 1951  | 2307  | 2664  | 3016 | 3355  | 3681  | 4025  | 4335  | 4641  | Measured Value (mV)   |
|                        | SLOPE (mV/dB)  | -13   | -5    | -10   | -11   | -2    | -6    | 8     | 22    | 32   | 29    | 13    | 15    | -18   | -54   | ERROR (mV)            |
|                        | MAX LIN ERROR  | -0.19 | -0.07 | -0.14 | -0.16 | -0.03 | -0.09 | 0.11  | 0.33  | 0.47 | 0.42  | 0.19  | 0.21  | -0.26 | -0.79 | LINEARITY ERROR (dB)  |
|                        | MAX ACC ERROR  | 0.34  | 0.43  | 0.32  | 0.27  | 0.36  | 0.26  | 0.42  | 0.60  | 0.71 | 0.62  | 0.35  | 0.34  | -0.16 | -0.73 | LOG ACCURACY (dB)     |
| 3 GHz                  | INTERCEPT (mV) | 242   | 597   | 930   | 1271  | 1622  | 1956  | 2311  | 2658  | 3007 | 3336  | 3661  | 4009  | 4342  | 4672  | Measured Value (mV)   |
|                        | SLOPE (mV/dB)  | -12   | 2     | -7    | -7    | 3     | -4    | 9     | 15    | 23   | 10    | -6    | 1     | -8    | -19   | ERROR (mV)            |
|                        | MAX LIN ERROR  | -0.17 | 0.03  | -0.10 | -0.10 | 0.04  | -0.07 | 0.14  | 0.22  | 0.33 | 0.15  | -0.09 | 0.01  | -0.11 | -0.28 | LINEARITY ERROR (dB)  |
|                        | MAX ACC ERROR  | 0.47  | 0.62  | 0.45  | 0.40  | 0.49  | 0.33  | 0.48  | 0.51  | 0.57 | 0.35  | 0.06  | 0.11  | -0.06 | -0.28 | LOG ACCURACY (dB)     |
| 4 GHz                  | INTERCEPT (mV) | 193   | 522   | 865   | 1210  | 1550  | 1895  | 2252  | 2616  | 2976 | 3303  | 3625  | 3974  | 4314  | 4655  | Measured Value (mV)   |
|                        | SLOPE (mV/dB)  | 11    | -5    | -7    | -7    | -12   | -12   | 0     | 18    | 33   | 15    | -8    | -4    | -9    | -13   | ERROR (mV)            |
|                        | MAX LIN ERROR  | 0.15  | -0.08 | -0.11 | -0.11 | -0.18 | -0.18 | -0.01 | 0.27  | 0.49 | 0.22  | -0.11 | -0.05 | -0.12 | -0.18 | LINEARITY ERROR (dB)  |
|                        | MAX ACC ERROR  | -0.24 | -0.47 | -0.49 | -0.49 | -0.56 | -0.55 | -0.38 | -0.10 | 0.13 | -0.13 | -0.46 | -0.40 | -0.47 | -0.62 | LOG ACCURACY (dB)     |
| 5 GHz                  | INTERCEPT (mV) | 193   | 520   | 869   | 1213  | 1554  | 1900  | 2261  | 2629  | 2990 | 3318  | 3640  | 3993  | 4329  | 4662  | Measured Value (mV)   |
|                        | SLOPE (mV/dB)  | 10    | -9    | -6    | -9    | -14   | -14   | 0     | 22    | 37   | 19    | -6    | 1     | -9    | -22   | ERROR (mV)            |
|                        | MAX LIN ERROR  | 0.15  | -0.13 | -0.09 | -0.12 | -0.20 | -0.21 | 0.01  | 0.32  | 0.53 | 0.27  | -0.08 | 0.02  | -0.13 | -0.32 | LINEARITY ERROR (dB)  |
|                        | MAX ACC ERROR  | -0.24 | -0.50 | -0.43 | -0.45 | -0.50 | -0.48 | -0.25 | 0.09  | 0.33 | 0.09  | -0.24 | -0.12 | -0.25 | -0.42 | LOG ACCURACY (dB)     |
| 6 GHz                  | INTERCEPT (mV) | 177   | 492   | 841   | 1185  | 1519  | 1870  | 2231  | 2612  | 2975 | 3305  | 3624  | 3981  | 4330  | 4682  | Measured Value (mV)   |
|                        | SLOPE (mV/dB)  | 29    | -5    | -5    | -10   | -25   | -23   | -11   | 22    | 38   | 17    | -13   | -5    | -6    | -2    | ERROR (mV)            |
|                        | MAX LIN ERROR  | 0.41  | -0.07 | -0.07 | -0.14 | -0.36 | -0.32 | -0.15 | 0.31  | 0.51 | 0.24  | -0.19 | -0.07 | -0.07 | -0.02 | LINEARITY ERROR (dB)  |
|                        | MAX ACC ERROR  | -0.47 | -0.90 | -0.84 | -0.85 | -1.01 | -0.92 | -0.68 | -0.15 | 0.11 | -0.10 | -0.48 | -0.30 | -0.24 | -0.13 | LOG ACCURACY (dB)     |
| AVG. SLOPE: 68.9 mV/dB |                | 0.47  | 0.76  | 0.65  | 0.62  | 0.75  | 0.62  | 0.58  | 0.38  | 0.30 | 0.38  | 0.41  | 0.37  | 0.20  | 0.30  | Flatness dB: ±0.76 dB |



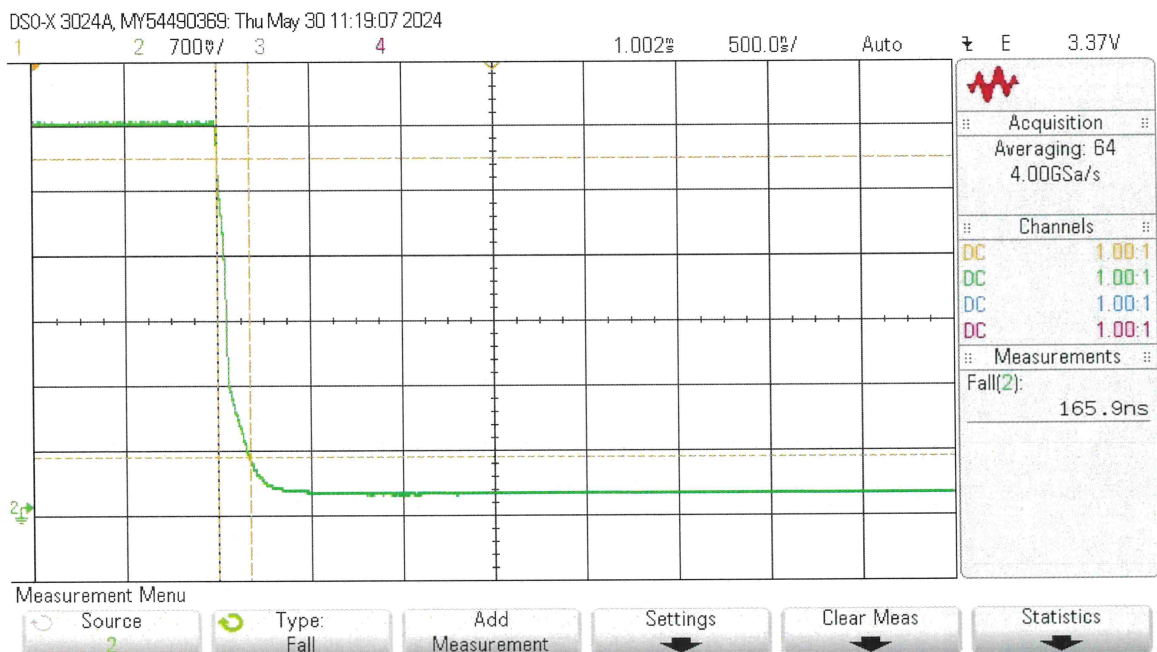


## Summary Data For EWDM-2G6G-65-70MV-1

### Rise Time



### Fall and Recovery Time





Summary Data  
For  
EWDM-2G6G-65-70MV-1

## Settling Time

