

# P4T-100M50G-100-T-RD-292-OPT40

Customer: \_\_\_\_\_  
SO No: \_\_\_\_\_  
Model No: P4T-100M50G-100-T-RD-292-OPT40  
Serial No: PL50948/2503

Tested By: S. O'Neill  
Temperature: +25°C  
Date: 1/14/2025  
Drawing No: 27632641 REV: B1

| TEST ITEM NO. | PARAMETERS           | SPECIFIED VALUE                              | TEST RESULTS                        | QA         |
|---------------|----------------------|----------------------------------------------|-------------------------------------|------------|
|               |                      |                                              | +25°C                               | QC         |
| 1             | Frequency Range:     | 0.1 to 40 GHz                                | 0.1 to 40 GHz                       | PMI<br>QA4 |
| 2             | Insertion Loss:      | 4.0 dB (0.1 to 18GHz) MAX                    | 3.07 dB                             |            |
|               |                      | 7.0 dB (18 to 40GHz) MAX                     | 6.76 dB                             |            |
|               |                      |                                              | See Graphs                          |            |
| 3             | VSWR<br>Input/Output | 2.0:1 (0.1 to 18GHz) MAX                     | 1.86 :1                             |            |
|               |                      | 2.25:1 (18 to 40GHz) MAX                     | 2.05 :1                             |            |
|               |                      |                                              | See Graphs                          |            |
| 4             | Isolation:           | 80 dB (0.1 to 1GHz) Min.                     | 105.79 dB                           |            |
|               |                      | 90 dB (1 to 18GHz) Min.                      | 99.95 dB                            |            |
|               |                      | 75 dB (18 to 40GHz) Min.                     | 84.89 dB                            |            |
|               |                      |                                              | See Graphs                          |            |
| 5             | Switching Speed      | 50 ns Max.                                   | Pass<br>See Typical Characteristics |            |
| 6             | Input Power:         | +20 dBm CW Max.                              | Pass<br>See Typical Characteristics |            |
| 7             | Control Signal:      | See TTL Logic Table                          | Pass                                |            |
| 8             | DC Supply:           | +5 VDC @ 200 mA Max.<br>-5 VDC @ 200 mA Max. | +5 VDC @ 160 mA<br>-5 VDC @ 131 mA  | PMI<br>QA4 |

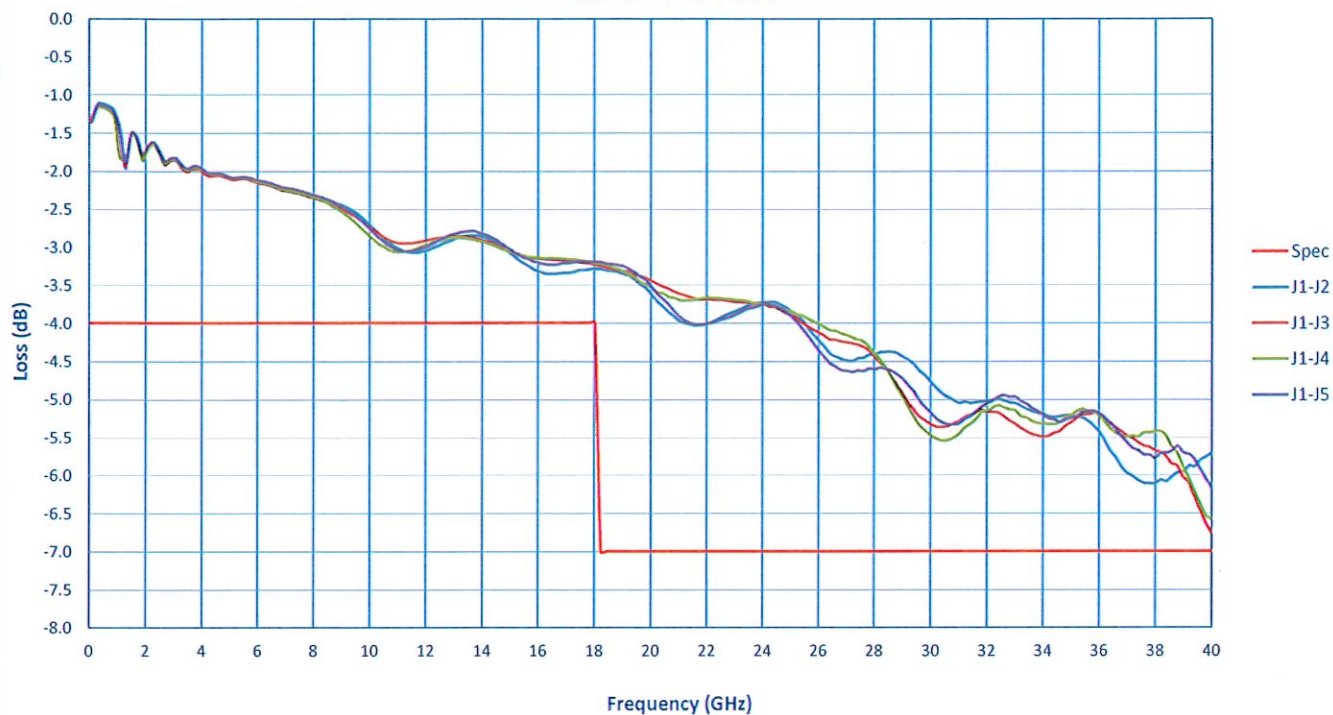
QA/QC Approval:

Date:

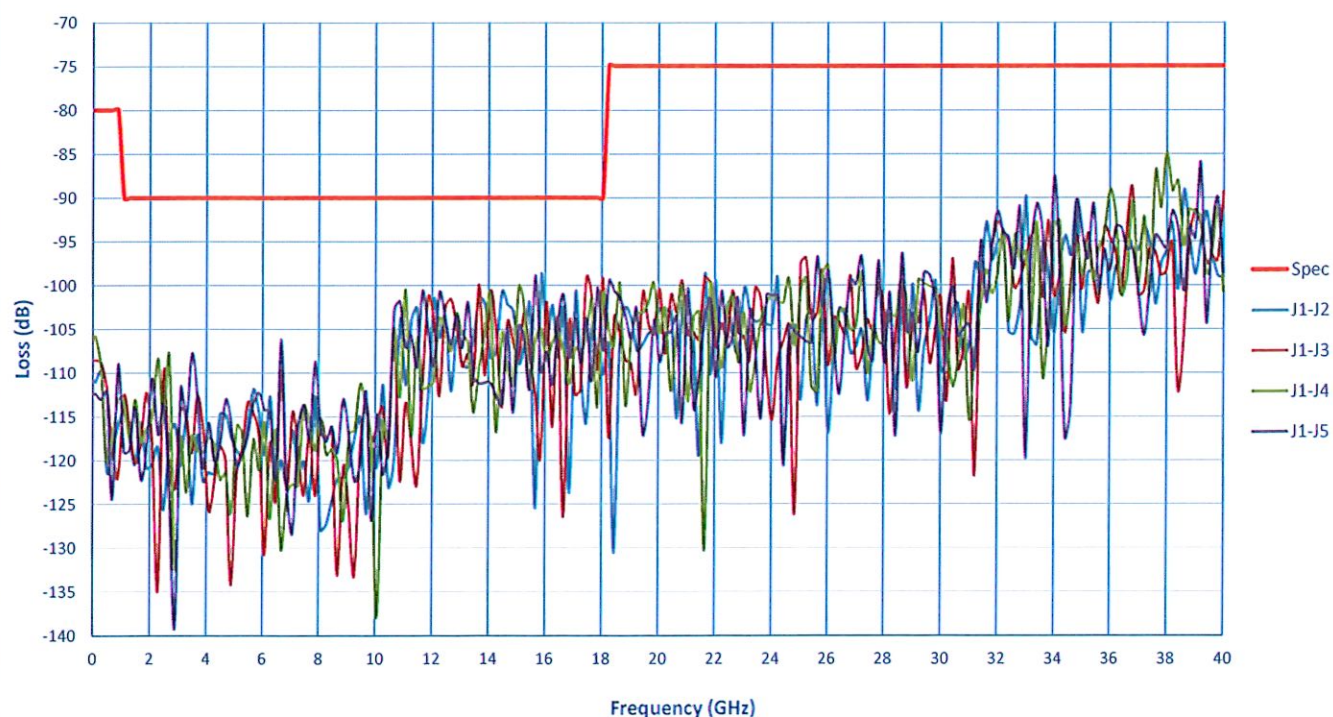
1/15/25

# SUMMARY TEST DATA ON P4T-100M50G-100-T-RD-292-OPT40

## Insertion Loss



## Isolation





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