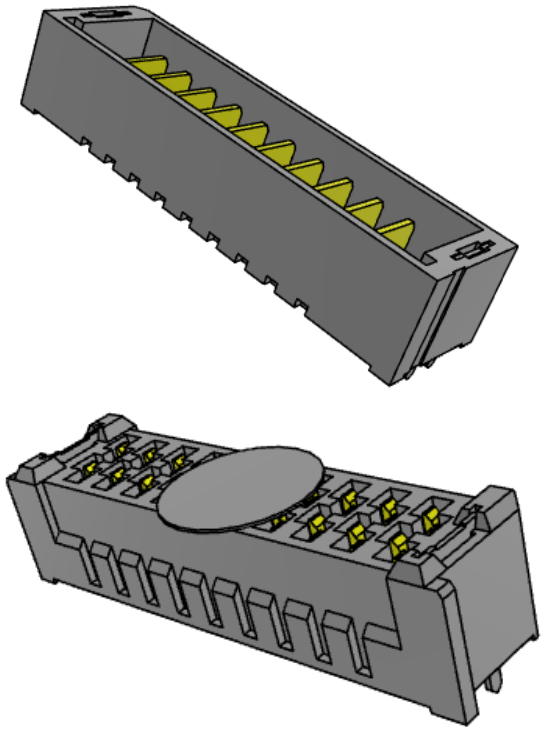
Project Number: Design Qualification Test Report	Tracking Code: CR-1081201_Report_Rev_1
Requested by: Mark Shireman	Date: 6/3/2024
Part #: UMPT-10-02.5-G-V-S-W-TR\UMPS-10-05.5-G-V-S-W-TR	
Part description: UMPT\UMPS	Tech: Brian Stemle
Test Start: 5/22/2024	Test Completed: 5/22/2024



DESIGN QUALIFICATION TEST REPORT

UMPT\UMPS
UMPT-10-02.5-G-V-S-W-TR\UMPS-10-05.5-G-V-S-W-TR

REVISION HISTORY

DATA	REV.NUM.	DESCRIPTION	ENG
6/3/2024	**1**	**Initial Issue**	**KH**

CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to IS0 10012-l and ANSI/NCSL 2540-1, as applicable.

SCOPE

To perform the following tests: Design Qualification test. Please see test plan.

APPLICABLE DOCUMENTS

Standards: EIA Publication 364.

TEST SAMPLES AND PREPARATION

1) All materials were manufactured in accordance with the applicable product specification.
2) All test samples were identified and encoded to maintain traceability throughout the test sequences.
3) Any additional preparation will be noted in the individual test sequences.

FLOWCHARTS

Pull/Shear

Group 1	Group 2
UMPS-10-05.5-G-V-S-W-TR	UMPS-10-05.5-G-V-S-W-TR
UMPT-10-02.5-G-V-S-W-TR	UMPT-10-02.5-G-V-S-W-TR
5 Assemblies	5 Assemblies

Step	Description
1.	Connector Pull

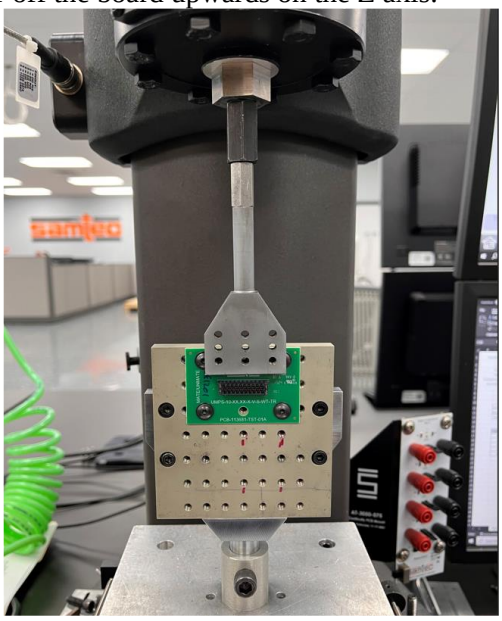
Step	Description
1.	Connector Shear

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

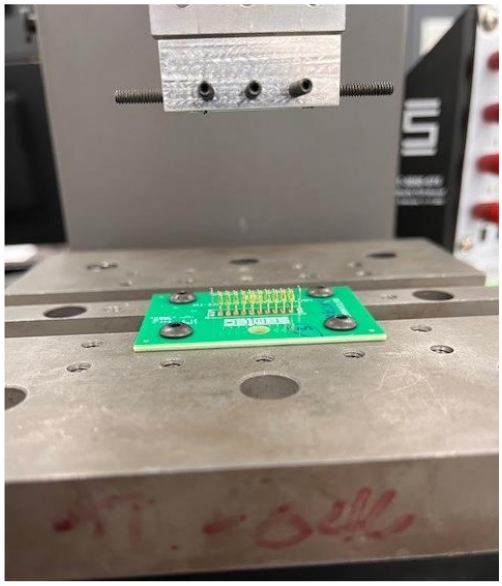
Connector Pull & Shear Force:

1. Attempted to shear the connector off the board upwards on the Z axis.



(Setup Picture 1)

2. Attempted to Pull the connector off the board downward on the Z axis.



(Setup Picture 2)

RESULTS

Connector Pull & Shear Force:

UMPT-10-02.5-G-V-S-W-TR

Connector Pull force:

- **Min----------52.75 lbs**
- **Max ----------57.90 lbs**

Connector Shear force:

- **Min----------90.86 lbs**
- **Max ---------- 101.73 lbs**

UMPS-10-05.5-G-V-S-W-TR

Connector Pull force:

- **Min----------69.08 lbs**
- **Max ----------99.41 lbs**

Connector Shear force:

- **Min----------84.15 lbs**
- **Max ---------- 106.28 lbs**

DATA SUMMARIES

Connector Pull & Shear Force:

UMPT-10-02.5-G-V-S-W-TR

Connector Pull

	Force (lbs)
Minimum	52.75
Maximum	57.90
Average	56.13

Connector Shear

	Force (lbs)
Minimum	90.86
Maximum	101.73
Average	95.88

UMPS-10-05.5-G-V-S-W-TR

Connector Pull

	Force (lbs)
Minimum	69.08
Maximum	99.41
Average	82.20

Connector Shear

	Force (lbs)
Minimum	84.15
Maximum	106.28
Average	95.21

EQUIPMENT AND CALIBRATION SCHEDULES

Equipment #: TCT-11
Description: Dillon Quantrol TC21 25-1000 mm/min series test stand
Manufacturer: Dillon Quantrol
Model: TC2 I series test stand
Serial #: 04-1041-04
Accuracy: Speed Accuracy: +/- 5% of indicated speed; Speed Accuracy: +/- 5% of indicated speed; … Last Cal: 05/29/2023, Next Cal: 05/29/2024