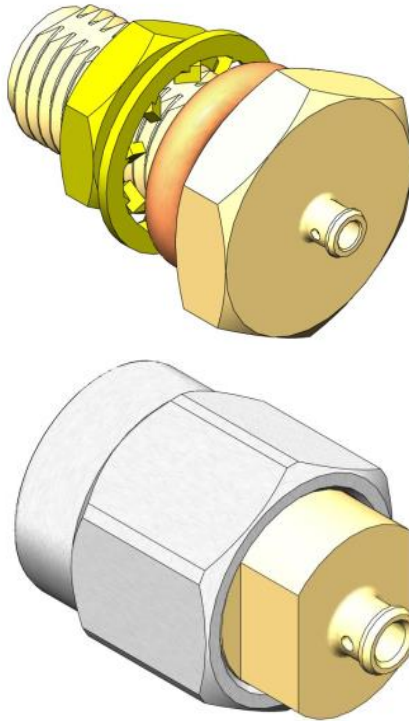




Project Number: Design Qualification Test Report	Tracking Code: CR-959901_Report_Rev_1
Requested by: Jenny Chou	Date: 10/9/2023
Part #: PRF01-J-C-EG-047A-BD-1\PRF01-P-C-EG-047A-SD	
Part description: PRF01-J\PRF01-P	Tech: Kason He
Test Start: 7/27/2023	Test Completed: 8/3/2023



Design Qualification Test Report
PRF01-J\PRF01-P
PRF01-J-C-EG-047A-BD-1\PRF01-P-C-EG-047A-SD

CERTIFICATION

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

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SCOPE

To perform the following tests: Design qualification test. See test plan.

APPLICABLE DOCUMENTS

Standards: CEI\IEC 60529

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) Either an automated cleaning procedure or an ultrasonic cleaning procedure may be used.
- 4) Any additional preparation will be noted in the individual test sequences.

FLOWCHARTS

Dust/Water

IPx7 Water Submersion

Group 1

PRF01-J-C-EG-047A-BD-1

PRF01-P-C-EG-047A-SD

6 Assemblies

Step	Description
1.	Water Submersion - IPX7 ⁽²⁾ Depth = 1 meters
2.	Visual Inspection

IP6x Dust

Group 2

PRF01-J-C-EG-047A-BD-1

PRF01-P-C-EG-047A-SD

6 Assemblies

Step	Description
1.	Dust - IP6X ⁽¹⁾
2.	Visual Inspection

(1) Dust - IP6X = CEI/IEC 60529

(2) Water Submersion - IPX7 = CEI/IEC 60529

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

WATER TESTING:

- 1) Reference document: CEI/IEC 60529 Code IPX7

DUST TESTING:

- 1) Reference document: CEI/IEC 60529 Code IP6X

RESULTS**IP6X & IPX7 Testing (Dust & Water)**

Dust	<u>Initial (Before Exposure)</u> No Dust Present	<u>After Exposure</u> No Dust Present
Water	<u>Initial (Before Exposure)</u> No Water Present	<u>After Exposure</u> No Water Present

DATA SUMMARIES**IP6X & IPX7 Testing (Dust & Water)****Dust**

Sample #	Visual Inspection
1	PASS
2	PASS
3	PASS
4	PASS
5	PASS
6	PASS

Water

Sample #	Visual Inspection
1	PASS
2	PASS
3	PASS
4	PASS
5	PASS
6	PASS

EQUIPMENT AND CALIBRATION SCHEDULES**Equipment #:** WATER-01**Description:** IP-67 1.0 Meter Water Column Chamber**Manufacturer:** Samtec Machine**Model:** N/A**Serial #:** N/A**Accuracy:** No Calibration Required**Equipment #:** DUST-01**Description:** IP-X6 Dust Tester**Manufacturer:** Samtec Machine**Model:** N/A**Serial #:** N/A**Accuracy:** No Calibration Required