

# Table of Contents

## 1 Introduction

1.1 Purpose and Scope . . . . .	1-1
1.2 Summary of Changes . . . . .	1-1
1.3 Organization . . . . .	1-2
1.4 Requirements Terminology . . . . .	1-2
1.5 Requirement Labeling Conventions . . . . .	1-3
1.5.1 Numbering of Requirement and Related Objects . . . . .	1-3
1.5.2 Requirement, Conditional Requirement, and Objective Identification . . . . .	1-3

## 2 General Information

2.1 Description . . . . .	2-1
2.2 Analysis Criteria Levels . . . . .	2-1
2.2.1 Reporting of Design Analysis and Test Data . . . . .	2-1
2.3 Safety and Reliability Considerations . . . . .	2-1

## 3 General Requirements

3.1 Packaging . . . . .	3-1
3.2 Marking . . . . .	3-1
3.3 Quality Assurance Program . . . . .	3-1
3.4 Sample Preparation . . . . .	3-2
3.5 Sequence of Tests . . . . .	3-2

## 4 Performance Requirements and Verification Procedures

4.1 Physical Requirements . . . . .	4-1
4.1.1 Material . . . . .	4-1
4.1.2 Plating . . . . .	4-1
4.1.3 Visual Inspection . . . . .	4-1
4.2 Mechanical Requirements and Tests . . . . .	4-1
4.2.1 Straps . . . . .	4-1
4.2.2 Torque Test . . . . .	4-2
4.2.3 Tensile Test . . . . .	4-2
4.2.4 Vibration Requirements and Tests . . . . .	4-2
4.3 Environmental Requirements and Tests . . . . .	4-3
4.3.1 Temperature and Humidity Test . . . . .	4-3
4.3.2 Salt Fog Test . . . . .	4-3
4.3.3 Stress Corrosion Cracking . . . . .	4-3
4.3.4 Pull Test . . . . .	4-4
4.4 Electrical Requirements and Tests . . . . .	4-4
4.4.1 AC Fault Tests . . . . .	4-4
4.4.2 Resistance Tests . . . . .	4-5
4.4.3 Lightning Surge Tests . . . . .	4-6
4.4.4 Core-to-Shield Voltage Breakdown Test . . . . .	4-7

## 5 Acronyms/Terms

5.1 Acronyms . . . . .	5-1
------------------------	-----



5.2 Terms . . . . . 5-1

**Appendix A: References**

**Requirement-Object Index**



## List of Figures

Figure 5-1	Two Clamp Installation . . . . .	5-2
Figure 5-2	Current Surge Test Schematic . . . . .	5-3
Figure 5-3	Temperature and Humidity Cycling . . . . .	5-4

## List of Tables

Table 5-1	Sample Preparation . . . . .	5-4
-----------	------------------------------	-----