

## Contents

1. Introduction . . . . .	1-1
1.1 Purpose and scope of Document . . . . .	1-1
1.2 Organization . . . . .	1-1
1.3 Requirements Terminology . . . . .	1-1
1.4 Requirement Labeling Conventions . . . . .	1-2
1.4.1 Numbering of Requirement and Related Objects . . . . .	1-2
1.4.2 Requirement, Conditional Requirement, and Objective Object Identification . . . . .	1-3
2. General Information . . . . .	2-1
2.1 Product Description . . . . .	2-1
2.2 Operating Environment . . . . .	2-1
2.3 Performance Testing . . . . .	2-1
3. Features, Functions and Performance . . . . .	3-1
3.1 Design Changes . . . . .	3-1
3.2 Physical Design . . . . .	3-1
3.2.1 Fire Resistance . . . . .	3-2
3.3 Documentation . . . . .	3-2
3.4 Marking and Packaging . . . . .	3-3
3.5 Electrical . . . . .	3-3
3.5.1 Insulation Resistance . . . . .	3-3
3.5.2 Dielectric Strength . . . . .	3-3
3.5.3 Power Splitter . . . . .	3-3
3.5.4 Directional Coupler . . . . .	3-6
3.5.5 75 Ohm Matching Transformer . . . . .	3-9
3.5.6 RF Attenuator/Terminators . . . . .	3-10
4. Environmental Compatibility . . . . .	4-1
4.1 Temperature Cycling with Humidity . . . . .	4-1
4.2 Water Immersion . . . . .	4-1
4.3 Salt Spray (Fog) Exposure . . . . .	4-1
4.4 Environmental Pollutants . . . . .	4-2
4.5 Vibration . . . . .	4-2
4.6 Chemical Resistance . . . . .	4-3
4.7 UV Degradation . . . . .	4-3
4.8 Ozone Degradation . . . . .	4-3
5. Quality . . . . .	5-1
Appendix A: References . . . . .	A-1

## List of Tables

Table 3-1	Power Splitter Ideal Insertion Loss . . . . .	3-4
Table 3-2	Power Splitter RF Performance . . . . .	3-5
Table 3-3	Power Splitter RF Shielding Effectiveness . . . . .	3-6
Table 3-4	Directional Coupler Ideal Minimum Mainline Loss . . . . .	3-7
Table 3-5	Directional Tap RF Performance . . . . .	3-8
Table 3-6	Directional Coupler RF Shielding Effectiveness . . . . .	3-9
Table 3-7	75 Ohm Matching Transformer RF Performance . . . . .	3-10
Table 3-8	Attenuator and Termination RF Performance . . . . .	3-11
Table 3-9	Attenuator and Termination RF Shielding Effectiveness . . . . .	3-12