

---

## Table of Contents

1.	Introduction .....	1
1.1	Document Description .....	1
1.2	Organization .....	1
1.3	Analysis Criteria .....	1
1.4	Technical Feature/Function Analysis .....	2
2.	General Information .....	3
2.1	Fiber Optic Talksets .....	3
2.2	Other Options .....	3
2.3	The Compatibility Problem .....	4
2.4	Reasons for Incompatibility: Analog and Digital .....	4
2.5	Providing a Compatibility Link .....	5
2.6	Operating Conditions .....	5
3.	General Criteria .....	7
3.1	Control Features .....	7
3.2	Communications Features .....	7
3.3	Unit Powering Features .....	7
3.4	Input/Output Port Features .....	8
3.5	Physical Design Features .....	8
3.6	Maintenance Features .....	9
3.7	Additional Functionality .....	9
3.8	Product Information .....	9
3.8.1	Documentation .....	9
3.8.2	Performance Specification Sheet .....	10
3.9	Product Marking and Packaging .....	10
3.9.1	Product Marking .....	10
3.9.2	Packaging for Shipment from Supplier .....	10
3.10	Safety .....	10
4.	Specific Criteria .....	13
4.1	Operational Criteria .....	13
4.1.1	Source Characteristics .....	13
4.1.1.1	Centroidal Wavelength .....	13
4.1.1.2	Spectral Width .....	13
4.1.1.3	Source Stability .....	13
4.1.1.4	Output Power .....	13
4.1.2	Operational Range .....	14
4.1.3	2 kHz Transmission .....	14
4.2	Mechanical Design: Shock and Vibration .....	14
4.3	Electrical Powering .....	14

---

---

4.4	Environmental Criteria .....	15
4.4.1	Non-Operating Environment.....	15
4.4.2	Operating Environment.....	15
4.5	Safety .....	15
5.	Performance Verification and Test Procedures.....	17
5.1	Operational Criteria.....	18
5.1.1	Source Characteristics.....	18
5.1.1.1	Centroidal Wavelength.....	18
5.1.1.2	Spectral Width.....	18
5.1.1.3	Source Stability .....	19
5.1.1.3.1	Centroidal Wavelength Stability .....	19
5.1.1.3.2	Long-Term Power Stability .....	20
5.1.1.3.3	Operating Temperature Power Stability.....	20
5.1.1.3.4	Power Stabilization Time .....	21
5.1.1.4	Output Power .....	21
5.1.2	Operational Range.....	22
5.1.3	2 kHz Transmission.....	23
5.2	Mechanical Design: Shock and Vibration.....	23
5.2.1	Shock During Transportation.....	23
5.2.2	Shock During Use .....	24
5.2.3	Vibration Test.....	24
5.3	Electrical Powering .....	24
5.4	Environmental Criteria .....	25
5.4.1	Non-Operating Environment.....	25
5.4.2	Operating Environment.....	25
5.5	Safety .....	26
6.	References .....	27
6.1	Bellcore Documents.....	27
6.2	Other Documents .....	27
6.3	Ordering Information.....	27
7.	Glossary .....	29

---

## List of Figures

Figure 1.	Spectral Characteristics Test Setup.....	18
Figure 2.	Centroidal Wavelength Stability Test Setup .....	19
Figure 3.	Long-Term Power Stability Test Setup .....	20
Figure 4.	Operating Temperature Power Stability Test Setup .....	20
Figure 5.	Operational Range Test Setup .....	22
Figure 6.	2 kHz Transmission Test Setup .....	23
Figure 7.	Operating Environment Test Setup for Operational Range.....	25

## List of Tables

Table 1.	Vibration Test Specifications.....	24
----------	------------------------------------	----