

SPECIFICATION FOR APPROVAL

PART NO.: XSFP-9710-3N3D230-05B-VT1

PRODUCT DESCRIPTION.: SFP 2X4 COMBO WITH GROUNDING PIN WITH 2 OUTER LIGHT PIPE



REV:A

XMULTIPLE

MARKETING GROUP	R&D GROUP	QA GROUP
ISSUED BY	CHECKED BY	QA INSPECTION
Jason	De	Xu Long

CUSTOMER: _____

CUSTOMER PART NO.: _____

SAMPLE Q'TY: _____

CUSTOMER

CUSTOMER APPROVAL:

APPROVAL

CONCESSIONARY

REJECTED

ISSUED BY	CHECKED BY	APPROVED BY

COMMENTS:

543 Country Club Drive, B-128, Simi Valley, CA 93065.

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Email: info@xmultiple.com

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HUM(%):65 RH

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3. REVISION CHANGE RECORD

REV	Description	Drawn	Checked	Approved	Issue Date
A	Specification issued	Jason	Chris	De	2014/03/24

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4. SPECIFICATION AND PERFORMANCE

4-1 Scope

4-1-1 Contents

This specification covers the performance, tests and quality requirements for the SFP 2X4 cage&connector assemblies.

4-1-2 Qualification

When tests are performed on the subject product line, procedures specified in Figure 1 shall be used. All inspections shall be performed using the applicable inspection plan and product drawing

4-2 Commercial Standard

EIA-364: Electrical connector/socket test procedures including environmental classifications

4-3 Requirements

4-3-1 Design and construction

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing

4-3-2 Materials

Cage: Nickel silver ,thickness 0.25mm

Light pipe: Polycarbonate, color: clear.

Connector:

Plastic housing: High temperature LCP. UL94 V-0.

Spring: Stainless steel, thickness 0.20mm.

Contacts: Phosphor Bronze. thickness 0.20mm;

Plating: 15μ" MIN. Au on mating area, 150μ" MIN. matte tin on solder tails.

4-3-3 Mechanical characteristics:

Voltage (工作电压) : 120V AC Max.

Current (工作电流) : 0.5 A Max

4-3-4 Electrical

Operating temperature: -40°C~+85°C

Storage temperature: -55°C~+105°C

4-3-5 Environmental:

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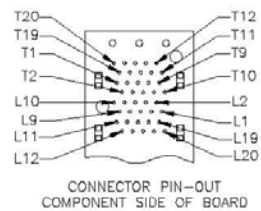
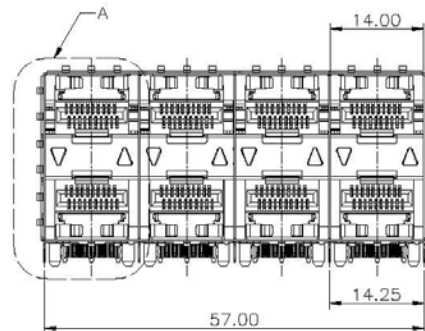
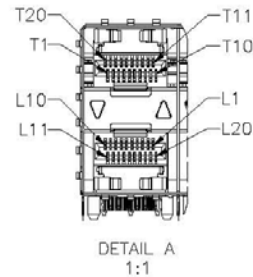
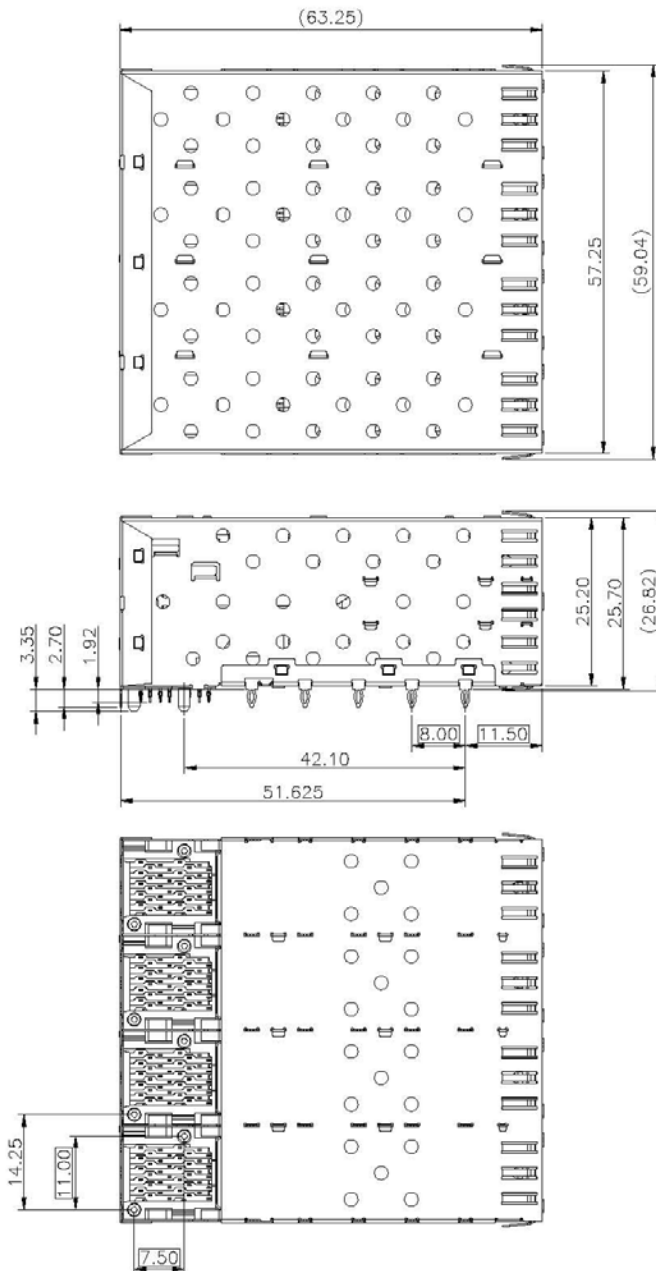
TOLERANCE(mm):

.0 ± 0.20

.00 ± 0.15

.000 ± 0.075

5. MECHANICAL DIMENSION AND LABEL



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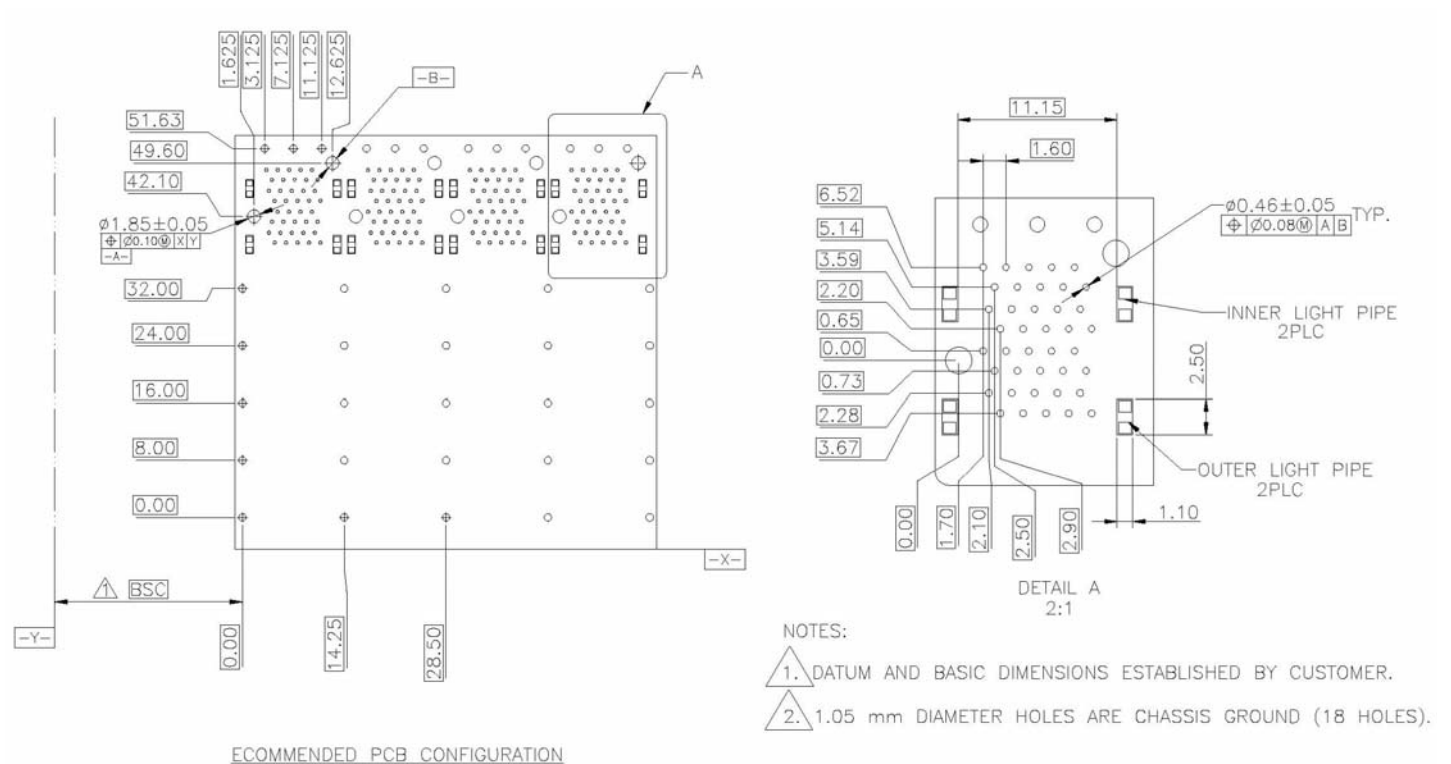


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6. RECOMMENDED PCB LAYOUT: UNIT: (mm)



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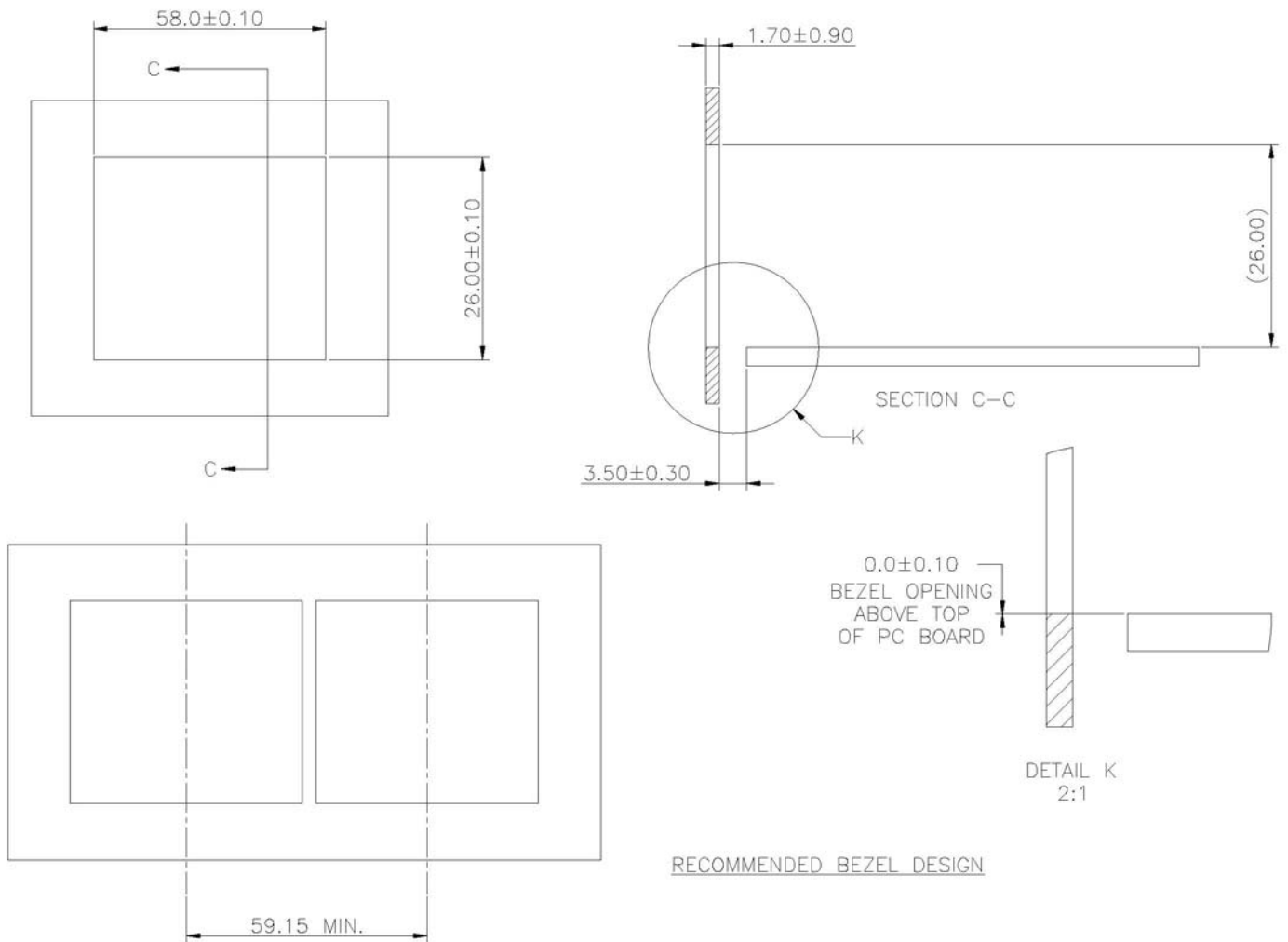


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7. RECOMMENDED BEZEL DESIGN: UNIT: (mm)



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8. Performance and Test Description

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 1. All tests shall be performed at ambient environmental conditions per EIA-364

8-1. Test Requirements and Procedures Summary

Test Item	Requirement	Procedure	
1	Examination of Product	Meets requirements of product drawing. No physical damage	Visual inspection. EIA-364-18
2	Dry circuit resistance	[35] m Ohm Max.	Subject mated specimens to 100 milliamperes maximum and 20 millivolts maximum open circuit voltage. EIA-364-23
3	Insulation Resistance	1000 MΩ Min.	EIA-364-21 300 volts DC. Test between adjacent contacts of unmated and unmounted specimens.
4	Withstanding Voltage	300 volts AC Min. 1 minute hold with no breakdown or flashover.	Test between adjacent contacts of unmated and unmounted specimens. EIA-364-20
5	Random Vibration	No discontinuities of 1 microsecond or longer duration. See note.	EIA-364-28, Condition VII, Level D. Subject mated specimens to 3.10 G's rms between 20-500 Hz. 15 minutes in each of 3 mutually perpendicular planes.
6	Mechanical Shock	No discontinuities of 1 microsecond or longer duration. See note.	EIA-364-27, Condition A. Subject mated specimens to 30 G's half-sine shock pulses of 11 milliseconds duration. 3 shocks in each direction applied along 3 mutually perpendicular planes, 18 total shocks.
7	Durability	ΔR=20 mΩ MAX. (FINAL) EIA-364-9	Operation Speed: 500 cycle/Hour. Durability Cycles: 100 Cycles

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Performance and Test Description
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. Test Requirements and Procedures Summary

Test Item	Requirement	Procedure
8	Thermal Shock See note $\Delta R=20 \text{ m}\Omega \text{ Max. (Final)}$	EIA-364-32, Condition VII. Subject mated specimens to 5 cycles between -55°C and +105°C with 30 minute dwells at temperature extremes and 1 minute transition between temperatures.
9	Humidity-Temperature Cycle See note $\Delta R=20 \text{ m}\Omega \text{ Max. (Final)}$	EIA-364-31. Cycle mated specimens between $25 \pm 3^\circ\text{C}$ at $80 \pm 3\% \text{ RH}$ and $65 \pm 3^\circ\text{C}$ at $50 \pm 3\% \text{ RH}$. Ramp times shall be 0.5 hour, dwell times shall be 1 hour. Perform 10 such cycles(10 days).
10	Temperature Life See note $\Delta R=20 \text{ m}\Omega \text{ Max. (Final)}$	EIA-364-17. Subject mated specimens to 105°C for 300 hours.
11	Mixed Flowing Gas See note.	EIA-364-65, Class IIA(4 gas) Subject mated specimens to environmental Class IIA for 7 days.

Figure 1 (End)

NOTE: Shall meet visual requirements, show no physical damage, and meet requirement of additional tests as specified in the test sequence in Figures 2

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8-2. Product Qualification and Requalification test

Test or Examination	Test Group								
	A	B	C	D					
	TEST SEQUENCE (A)								
Examination of Product	1,8	1,7	1,7	1,8					
Dry circuit resistance	2,4,7	2,4,6	2,4,6						
Insulation Resistance				2,6					
Withstanding Voltage				3,7					
Random Vibration	5								
Mechanical Shock	6								
Durability	3								
Thermal Shock				4					
Humidity-Temperature Cycle		5		5					
Temperature Life		3(B)	3(B)						
Mixed Flowing Gas			5						

Figure 2

NOTE: (a) Numbers indicate sequence in which tests are performed.

(b) Precondition specimens with 10 durability cycles.

(c) Discontinuities shall not take place in this test group, during tests.


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8-3. INSERTION, EXTRACTION AND RETENTION FORCE

TEST DESCRIPTION	REQUIREMENT	PROCEDURE
SFP transceiver insertion force	40 N Max.	EIA-364-13 Measure force necessary to mate specimens at a maximum rate of 12.7 mm per minute with cage latch operable.
SFP transceiver extraction force	11.5 N Max.	EIA-364-13 Measure force necessary to unmate specimens at a maximum rate of 12.7 mm per minute with cage latch operable.
Cage retention (Latch strength of cage)	180 N Min.	Apply specified axial load to engaged module at a maximum rate of 6.35 mm per minute and hold for 1 minute to verify module retention and cage latch strength.

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