

# PRODUCTS SPECIFICATION

\*\*\*\*\*

DESCRIPTION : Glass Optical Fiber Connector  
CUSTOMER :  
COMOSS P/N : GC Series  
Date of Issue : 02-Oct-2002  
Version : 1.0  
Designer : Gary-Huang

Approval



Customer Signature



**COMOSS ELECTRONIC CO.,LTD.**


4F.,No.11,Chung-Hsin st.,Shulin 238,Taipei,Taiwan R.O.C.

TEL : +886 2 2688-2498 FAX : +886 2 2689-9160

# COMOSS ELECTRONIC CO., LTD.

4F, No. 11, Chung Hsin St., Shulin 23844 , Taipei, Taiwan, R.O.C.

Tel : +886-2-26882498(Rep.) Fax : +886-2-26899160

Approved : 	Project No.	Rev. No.	Page
		1.0	1 of 3

Subject :  
Product Specification -Glass Optical Adaptor.

## 1.0 General

This product specification contains the test method, the optical, Mechanical and environment performance and basic requirements for Glass Optical Connector. All adaptors are designed for compliant with EIA 604 Standard.

## 2.0 Series Description

GA--FC--C--S--M--FC--XX

(1) (2) (3) (4) (5) (6) (7)

(1) Glass Optical Adaptor

(2) Connector Type :

FA-FC/APC Type

SA-SC/APC Type

FC-FC Type

SC-SC Type

ST-ST Type

LC-LC Type

MU-MU Type

MJ-MTRJ Type

(3) Sleeve Material :

C-Ceramic

M-Metal

(4) Body Type :

S-Simplex

D-Duplex

(5) Body Material :

M-Metal

P-Plastic

(6) Connector Type

The same as above

Approved : <i>Ber</i>		Project No.	Rev. No.	Page
			1.0	2 of 3
Subject : Product Specification -Glass Optical connector.				
<p>(7) Options 0: None *Any special request will add in this item.</p> <p>3.0 <u>Overall Dimensions</u> See attachment.</p> <p>4.0 <u>Optical Performance</u></p>				
Item	Description	Test methods and Condition	Requirements	
4.1	Insertion Loss	EIA SP NO 4245 Comparing with reference cable Tester:EXFO LTS-3900	Maximum 0.2dB	
5.0 <u>Mechanical Performance</u>				
5.1	Withdrawal force	TIA/EIA-455-158 To measure the force that remove a gage pin from the sleeve	The withdrawal force must be 200-600g (1.962-5.89 Newtons)	
5.2	Impact Test	TIA/EIA-455-2C Method A Drop the DUT from 1.5m to attack steel block	(1)Change value of insertion loss can't be bigger than 0.2dB (2)No damage and destruction	
5.3	Mating Durability Test	TIA/EIA-455-21A Mating and unmating fully more than 500cycles,but rate shall not exceed 300 cycles/hr	(1)Change value of insertion loss can't be bigger than 0.2dB (2)No damage and destruction	
5.4	Vibration Test	TIA/EIA-455-11B Vibration Test procedure for Fiber Optic Components and Cables Vibration Type:Sinusoidal Ferquency:10-2000Hz	(1)Change value of insertion loss can't be bigger than 0.2dB (2)No damage and destruction	
5.5	Visual Inspection	TIA/EIA-455-13A Visual and Mechanical Inspection of DUT	(1)Correct Material used (2)No missing part (3)Correct geometric features (4)Correct hardware types and styles	
6.0 <u>Environmental performance</u>				
6.1	Temperature Life Test	TIA/EIA-568-B.3 Temperature Life Test Procedure for Fiber Optic components Exposure Temperature : 60 Exposure Time : 96 hours	(1)Change value of insertion loss can't be bigger than 0.2dB (2)No damage and destruction	

Approved : <i>Ben</i>		Project No.	Rev. No.	Page
			1.0	3 of 3
Subject : Product Specification -Glass Optical Fiber Patch Cord.				
Item	Description	Test methods and Condition	Requirements	
6.2	Humidity Test	TIA/EIA-455-5B Humidity Test Procedure for Fiber Optic components Test Method A : Steady State Test Condition A : 96 hours	(1)Change value of insertion loss can't be bigger than 0.2dB (2)No damage and destruction	
6.3	Operating Temperature	Testing the optical performance in temperature -25 75	(1)Change value of insertion loss can't be bigger than 0.2dB (Only for Insertion Loss)	