

# 產品規格書

## PRODUCTS SPECIFICATION

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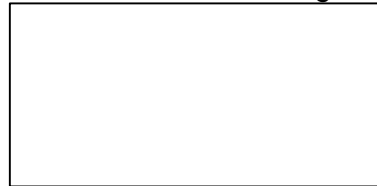
DESCRIPTION : 0.5mm FPC Connector SMD Type  
CUSTOMER :  
COMOSS P/N : FPC50-XX-X-X-X  
Date of Issue : 13-Mar-2001  
Version : 1.0  
Designer : Ben

審核欄



Ben

簽回欄/ Customer Signature



昕鈺實業股份有限公司  
COMOSS ELECTRONIC CO., LTD.  
台北縣樹林鎮忠信街11號4樓


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
	M-08	1.0	1 of 3

Subject :  
Product Specification - 0.5mm Pitch FPC Connector SMD Type

## 1.0 General

This specification covers performance, test, and quality requirements for 0.5 FPC connector, SMT type which is used for connecting with 0.3mm thick Flexible Printed Circuit cable.

## 2.0 Series Description

FPC50 XX X X X  
(1) (2) (3) (4) (5)

- (1) Series no. :
  - \* FPC50 : FPC Pitch 0.5mm Connector Series
- (2) Pin numbers :
  - \* Available from 4-50 pins
- (3) Contacts Plating :
  - \* 1 : 100u" Tin/Lead over 45u" Ni
- (4) Packing :
  - \* T : Tubing
  - \* R : Tape & Reel
- (5) Contact Style :
  - \* L : Lower Contact
  - \* U : Upper Contact

## 3.0 Application

- (1) FPC cable thickness : 0.3 +/- 0.05mm
- (2) Ambient Temperature Range : -25 to +85 degree C.

## 4.0 Overall Dimensions

See attachment.

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Approved : <i>Ben</i>		Project No.	Rev. No.	Page
		M-08	1.0	2 of 3
Subject : Product Specification - 0.5mm Pitch FPC Connector SMD Type				
<u>5.0 Electrical performance</u>				
Item	Description	Test methods and Condition	Requirements	
5-1	Rated Voltage		25Vdc	
5-2	Rated Current		0.3A	
5-3	Low Level Contact Resistance	EIA 364-23A Subject mated contacts measured by 20mV maximum open circuit at 10mA.	30m Ohm Maximum.	
5-4	Insulation Resistance	EIA 364-21 Test between adjacent contacts.	100M Ohm Minimum.	
5-5	Dielectric Withstanding Voltage	EIA 364-20 Test between adjacent contacts. 250V for 1 minutes.	No Breakdown.	
<u>6.0 Mechanical performance</u>				
Item	Description	Test methods and Condition	Requirements	
6-1	FPC Cable Retention Force	Apply axial load to FPC by operating at a rate of 100 mm/min	0.06 kgf/Pos. min.	
6-2	Contact Retention Force	Apply an axial pull-off load to contact operating at a rate of 100mm/min	0.2 kgf min.	
<u>7.0 Solderability</u>				
Item	Description	Test methods and Condition	Requirements	
7-1	Solderability	Solder Time : 3 +/- 0.5 Sec. Solder Temperature : 230 +/- 5	95% minimum.	

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		M-08	1.0	3 of 3
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<u>7.0 Solderability (Continued)</u>				
7-2	Resistance to soldering Heat	Immerse test sample into molten solder (260 +/- 5 ) to 0.3mm from the datum line. The dwell time shall be 5 +/- 0.5 Sec. After 30 Sec. (Interval) immerse the sample into solder (260 +/- 5 ) for 3 +/- 0.5 Sec.	No Damage.	
<u>8.0 Environmental performance</u>				
Item	Description	Test methods and Condition	Requirements	
8-1	Durability	Mat and unmate connectors for 20 cycles. Tested by a applicable FPC cable with 0.3mm thick	Contact Resistance less than 50m No damage	
8-2	Temperature Load	Carrying rated current load.	30 change max. No damage	
8-3	Temperature Life	Temp: 85 +/-5 for 96 hrs, -20 +/-5 for 96hrs	Appearance : No damage Contact Resistance : 40m change max.	
8-4	Humidity - Cycling Temperature	Subject mated connectors to 10 cycles of humidity-temp changes between 25 and 65 at 95% R.H.	Appearance : No damage I.R.: 50M LLCR: 50m max.	
8-4	Thermal Shock	Subject mated connectors to 25 cycles between -55+/-3 for 30 min and 85 +/-3 for 30 min	Appearance : No damage LLCR: 50m max	
8-5	Salt Spray	48 +/- 2 Hr exposure to a salt spray from the 5 +/- 1% solution at 35 +/- 2 .	Appearance : No damage LLCR: 50m max	