

產品規格書

PRODUCTS SPECIFICATION

DESCRIPTION : Edge Card Connector 3.96mm Pitch
CUSTOMER :
COMOSS P/N : ES Series
Date of Issue : 08-Nov-2001
Version : 1.4
Designer : James

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.

2F , 25 San Chun St., Shulin 23805 , Taipei, Taiwan, R.O.C.

Tel : 886-2-26896282(Rep.) Fax : 886-2-26896557

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Subject :
Product Specification - Edge Card Connector 3.96mm Pitch (DIP Solder & Press Fit.)

1.0 General

This specification covers the 5.08mm / .200" center on 3.96mm / .156" grid, Edge Card family applicable for thickness 1.6 +/- 0.2mm Slot PCB and for max. thickness 2.4mm Main PCB.

2.0 Series Description

ES - D XX S 30 B 0
(1) (2) (3) (4) (5) (6) (7)

- (1) Series no. :
 - * ES : Edge Card Slot 3.96mm Pitch.
- (2) Connector Type :
 - * D : DIP type.
 - * P : Press Fit type.
- (3) Number of Contacts
 - * Available positions : 56
- (4) Mounting Types:
 - * S : Straight version
 - * R : Right Angle version
- (5) Contacts Finish :
 - * 30 : 30 u" gold
- (6) Colour of Insulator:
 - * B : Black
- (7) Print Options:
 - * 0 : with COMOSS logo & P/N
 - * 1 : w/o COMOSS logo & P/N
 - * 2 : with COMOSS logo only

3.0 Application

- (1) P.C.B. thickness : 1.6 +/- 0.2mm
- (2) Ambient Temperature Range : -55 to +125 .
- (3) Current Rating: 5A Max.


4.0 Overall Dimensions

See attachment.

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<u>5.0 Electrical performance</u>				
Item	Description	Test methods and Condition	Requirements	
5-1	Rated Voltage		250V (ac/dc)	
5-2	Rated Current		5Amp (ac/dc)	
5-3	Termination Resistance	EIA 364-23A Subject mated contacts measured by 20mV maximum open circuit at 10mA.	10m Ohm Maximum.	
5-4	Insulation Resistance	EIA 364-21C Test between adjacent contacts.	5000M Ohm Minimum.	
5-5	Dielectric Withstanding Voltage	EIA 364-20B Test between adjacent contacts. 1800Vac for 1 minutes.	No Breakdown.	

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<u>6.0 Mechanical performance</u>				
Item	Description	Test methods and Condition	Requirements	
6-1	Board Insertion Force (Single contacts pair)	EIA 364-13B Measure force necessary to mate connector at rate of 2.5mm per Sec. Use test gauge t=1.8 +/-0.05mm	450g maximum.	
6-2	Board Extract Force (Single contacts pair)	EIA 364-13B Measure force necessary to unmate connector at rate of 2.5mm per Sec. Use test gauge t=1.4 +/-0.05mm	30g minimum.	
6-3	Retention Force	EIA 364-29B At a rate of 2.5mm per sec.	1.8 kg min.	
6-4	Pin Insertion Force	Westell Doc# EC-117 At a rate of 2.5mm per sec. Use PCB hole plate	20.5kg Max. (For press-fit only)	
6-5	Pin Removal Force	Westell Doc# EC-117 At a rate of 2.5mm per sec. Use PCB hole plate	3.4 kg Min. 20.5kg Max. (For press-fit only)	
6-5	Normal Force	EIA 364-04	No less than 100 g	

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<u>7.0 Solderability (Continued)</u>				
7-1	Solderability	Solder Time : 3 +/- 0.5 Sec. Solder Temperature : 245 +/- 5 EIA 364-52	75% minimum. (For DIP solder only)	
7-2	Resistance to soldering Heat	Immerse test sample into molten solder (260 +/- 5) to the upper surface of the PCB. The dwell time shall be 10 +/- 2 Sec. EIA 364-56A	No Damage. (For DIP solder only)	
<u>8.0 Environmental performance</u>				
Item	Description	Test methods and Condition	Requirements	
8-1	Durability	When mated up to 200 cycles repeatedly	Contact Resistance must be less than 30m Normal force must be no less than 100g	
8-2	Temperature Life	105 +/- 3 , 250 hours. EIA 364-17B	Appearance : No damage Contact Resistance : +/- 20m Ohm change.	
8-3	Humidity - Cycling Temperature	4 cycles, between 25 and 65 at 90% relative -humidity.	Appearance : No damage Contact Resistance : +/- 20m Ohm change.	
8-4	Thermal Shock	5 cycles : 1). +85 30min. 2). -55 30 min. EIA 364-32C	Appearance : No damage Contact Resistance : Max. 20m Ohm change.	
8-5	Salt Spray	24 +/- 2 Hr exposure to a salt spray from the 5 +/- 1% solution at 35 +/- 2 . EIA 364-26B	Appearance : No damage Contact Resistance : Max. 20m Ohm change.	