4mm Pitch Single Side Card Edge Connector

CR23 Series



■Features

- 1. 4mm pitch contact
- 2. Variation in number of contacts
 - 6, 10, 14, 18, 20, and 22 contacts are available.
- Connection methodEyelet and through hole types are available.
- **4. Prevents mis-insertion in the board**Using the polarizing key prevents mis-insertion in the board.

■Product Specifications

	Current rating: 3A	Operating Temperature Range: -30°C to +85°C (Note 1)	Storage Temperature Range : -10 to +60°C (Note 2)
Rating	_		Storage Humidity Range : 40 to 70% (Note 2)

Item	Specification	Condition		
1.Insulation Resistance	5000M ohms	500V DC		
2.Withstanding Voltage	No flashover or insulation breakdown.	1800V AC/1 minute		
3.Contact Resistance	15m ohms max.	1A		
4. Vibration	No electrical discontinuity of 10 μ s or more	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 2 hours in each of the 3 directions.		
5.Humidity (Steady state)	Insulation resistance: 5000M min.	96 hours at temperature of 40°C and humidity of 90% to 95%		
6.Temperature Cycle	No damage, cracks, or parts looseness.	(-55℃: 30 minutes→15 to 35℃: 5 minutes max.→ 85℃: 30 minutes→15 to 35℃: 5 minutes max.) 5 cycles		
7.Durability (Mating/un-mating)	Contact resistance: 30m ohms max.	500 cycles		
8.Resistance to Soldering heat	No deformation of components affecting performance.	Manual soldering: 300℃ for 3 seconds		

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non conducting condition of installed connectors in storage, shipment or during transportation.

■Material

Parts Material		Material	Finish	Remarks
	Insulator Polycarbonate		Blue	UL94V-0
	Contact	Copper alloy	Tin plated or gold plated	

■Ordering information

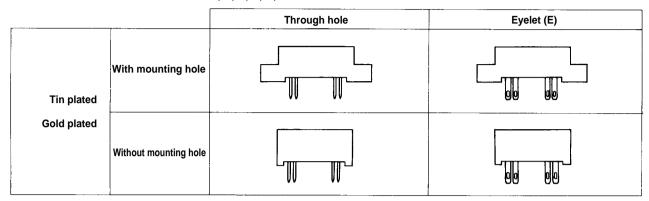
 $\frac{CR23}{\bullet} \quad \frac{A}{\bullet} - \frac{6}{\bullet} \frac{S}{\bullet} \frac{A}{\bullet} - \frac{4}{\bullet} \frac{DS}{\bullet}$

Series Name	: CR23	A: Gold plating	
2 Mold Type : A: Without mounting hole		B: Tin plating	
	Blank: With Mounting hole	6 Contact pitch: 4mm	
3 Number of contact	ts: 6, 10, 14, 18, 22	Contact type	
4 Contact alignment	nt: Single side	DS: Through hole type	
		E: Eyelet type	

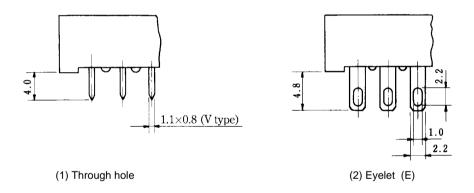


■Connector Type

6,10,14,18,20,22 contacts

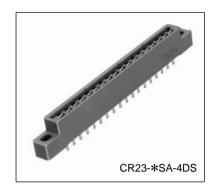


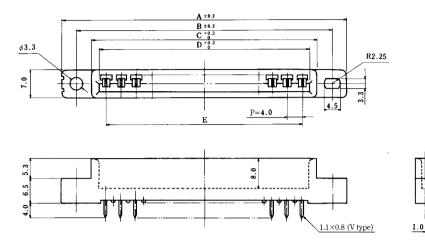
■Contact Type



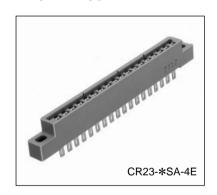
■With Mounting Hole Type

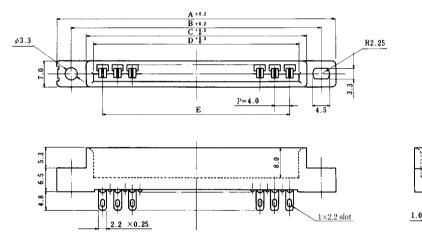
●Through hole Type





●Eyelet Type





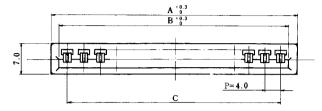
Unit:	mm

Part Number	CL No.	Number of Contacts	Α	В	С	D	Е
CR23-6SA-4DS	523-0025-6	6	45	0.7	30	25.5	20
CR23-6SA-4E	523-0001-8	0	45	37			20
CR23-10SA-4DS	523-0029-7					41.5	
CR23-10SA-4E	523-0005-9	10	61	53	46		36
CR23-10SB-4E	523-0007-4						
CR23-14SA-4DS	523-0033-4	14	75 67	67	67 60	57.5	
CR23-14SA-4E	523-0009-0						52
CR23-14SB-4E	523-0011-1						
CR23-18SA-4DS	523-0037-5	40	00	0.4	77	70.5	
CR23-18SA-4E	523-0013-7	18	92	84	//	73.5	68
CR23-22SA-4DS	523-0045-3	20				00.5	0.4
CR23-22SA-4E	523-0021-5	22	109	101	94	89.5	84

■Wihtout Mounting Hole Type

●Through hole Type

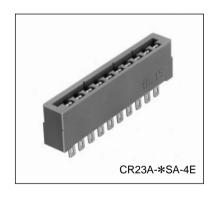


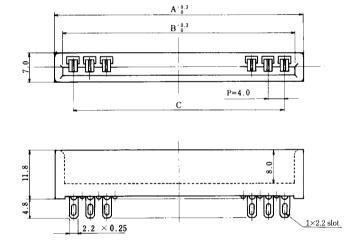


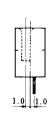


1.0 1.0

●Eyelet Type



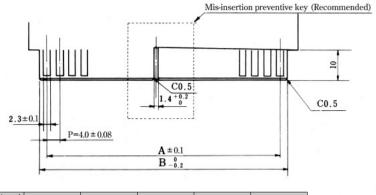




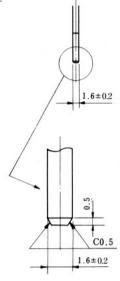
Unit: mm

Part Number	CL No.	Number of Contacts	А	В	С
CR23A-6SA-4DS	523-0026-9	- 6	00	25.5	20
CR23A-6SA-4E	523-0002-0	0	30		20
CR23A-10SA-4DS	523-0030-6			41.5	
CR23A-10SB-4DS	523-0032-1	10	46		20
CR23A-10SA-4E	523-0006-1	10			36
CR23A-10SB-4E	523-0008-7				
CR23A-14SA-4DS	523-0034-7				
CR23A-14SB-4DS	523-0036-2	4.4	60	57.5	50
CR23A-14SA-4E	523-0010-9	14			52
CR23A-14SB-4E	523-0012-4				
CR23A-18SA-4E	523-0014-0	18	77	73.5	68
CR23A-22SB-4DS	523-0048-1	22	94	89.5	84

♦PCB Dimensions



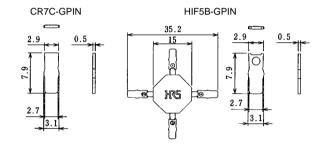
Number of Contacts Size	6	10	14	18	22
Α	20	36	52	68	84
В	25.3	41.3	57.3	73.3	89.3



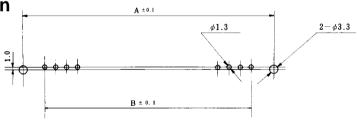
■Polarizing Key

Part Number	CL No.	Material	Finish
CR7C-GPIN	507-0055-8	Polyacetal	White
HIF5B-GPIN	564-0052-4	PBT	Beige

Note: Using the polarizing key prevents mis-insertion in the printed board. To use the polarizing key, insert the polarizing key so as to hit the mold bottom.

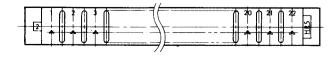


●PCB mounting pattern



Number of Contacts Size	6	10	14	18	22
Α	37	53	67	84	101
В	20	36	52	68	84

●Contact No. Alignment List



Note 1: If alphabetic symbols are utilized, following 8 alphabetic characters are not used.

G, I, O, Q, g, i, o, q

Note 2: The above pattern is viewed from the Contact (connection) side.