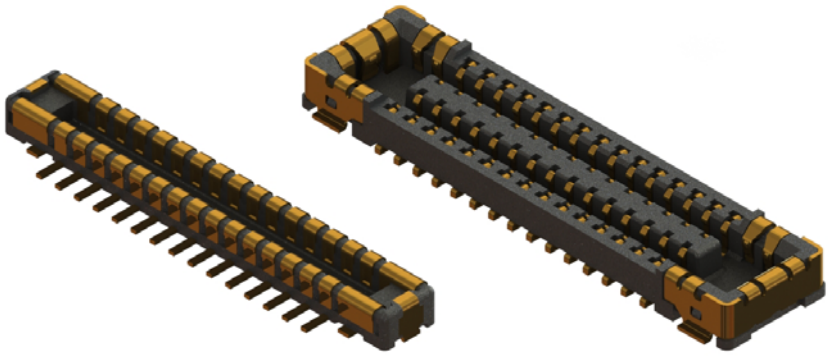
The Product Specification of 13601 Series Board to Board or FPC to Board Connectors (For External Use)



Plug Socket

Document Number		CSP-13601-00-00
Applicable Product Number		
Product Number	Description	Remark
13601P******	13601 Series,Plug	N/A
13601S******	13601 Series,Socket	N/A

Rev.	Description	Revisor	Approved	Revise Date
A	New Release	Ruirui.Tuo	Tiger	2020/01/20

■ Ordering Information

●Product Number Code

136 01 * ** ****

Series Name
136:Board to board or FPC to Board

Series No.
01:0.35mm Pitch，0.7mm Height

Type
P:Plug
S:Socket

Positions
See the table below

Others
B001:Power

●Product Number Table

Positions	Product Number		Quantity of packing	
	Plug	Socket	Pcs/Reel	Pcs/Box
10	13601P10B001	13601S10B001	15000	330000
24	13601P24B001	13601S24B001		240000
30	13601P30B001	13601S30B001		
34	13601P34B001	13601S34B001		
40	13601P40B001	13601S40B001		165000
50	13601P50B001	13601S50B001		

Performance Summary

	Item	Specification	Conditions
Electrical Performance	Rate Voltage	AC/DC 50V	-
	Rate Current	Signal contact: 0.3A Power contact: 5A	-
	Insulation Resistance	100 MΩ Min.	Measured at 100V DC
	Withstanding Voltage	250V AC for one minute	No flashover or insulation breakdown.
	Contact Resistance	Signal contact: 70mΩ Max. Power contact: 20mΩ Max.	Measured at 20mv AC,1kHz,and 1mA
Mechanical Performance	Vibration	No electrical discontinuity for more than 1μs.	Frequency : 10 to 55Hz ; single amplitude of 1.5mm,10 cycles in each of 3 axis directions for 5 minutes/cycle.
	Shock resistance	No electrical discontinuity of 1μs or more.	Acceleration : 450m/s2, duration : 11ms, 3-axis half-sine wave in both directions, 3 cycles for each.
	Durability	30 mating cycles	Connectors assemblies shall be mated and unmated for 30 times at maximum rate of 10 cycles per minute,without current applied.
	Mating&Unmating Force	Mating force: 1.5N/contact x total contacts Max. Unmating force: 0.15N/contact x total contacts Max.	Measure force necessary to male assemblies at maximum rate of 25±3mm per minute.
Environmental Performance	Temperature Range	-40℃ to +85℃ storage; -40℃ to +85℃ operating	-
	Humidity Range	20% to 80% storage; 20% to 80% operating	-
	Humidity	Contact Resistance: Signal contact: 70mΩ Max. Power contact: 20mΩ Max. Insulation Resistance: 100 MΩ Min.	96 hours at a temperature of 40 ±2℃ and a humidity range from 90 to 95%
	Temperature Cycle	Contact Resistance: Signal contact: 70mΩ Max. Power contact: 20mΩ Max. Insulation Resistance: 100 MΩ Min.	-55±3℃ : 30 minutes → 85±2℃ : 30 minutes,5 cycles
	Resistance to Soldering Heat	No deformation of components affecting performance.	Reflow: with recommended temperature profile; Hand soldering at soldering iron temperature of 300℃ for 3 seconds max.
	Salt Water Spray	Contact Resistance: Signal contact: 70mΩ Max. Power contact: 20mΩ Max. Insulation resistance: 100 MΩ Min.	Temperature: 35±2℃ Density of salt water: 5±1% Duration: 48 hours

Material and Finish

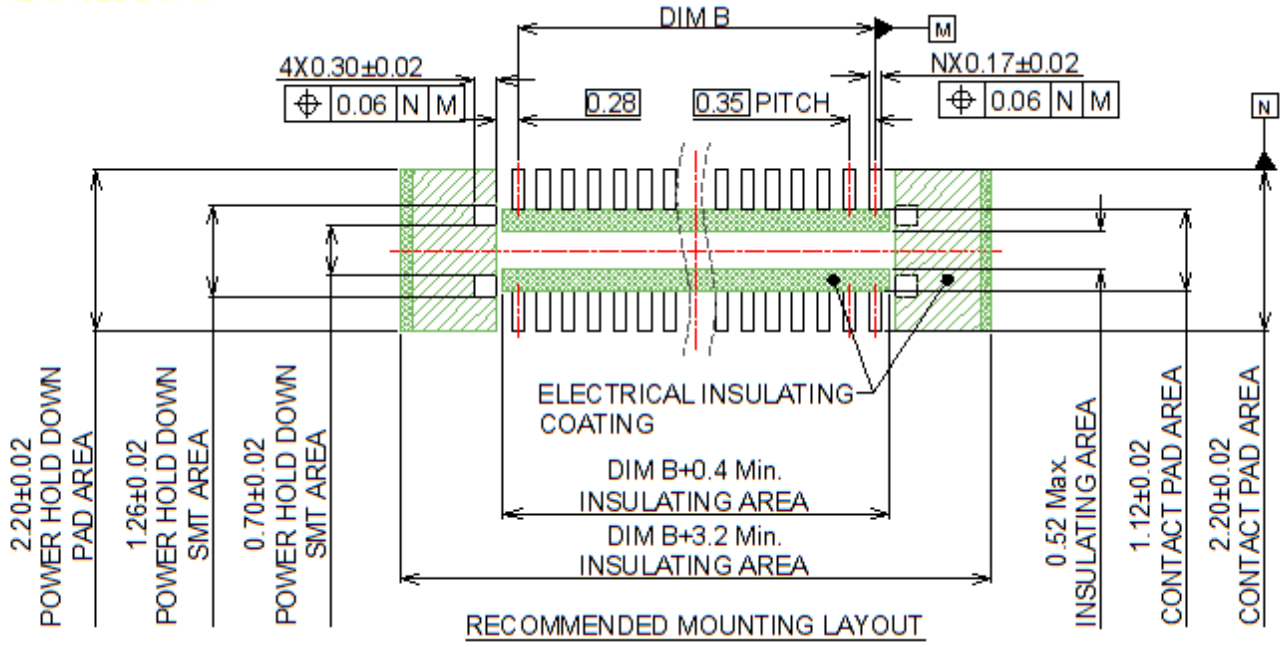
Connectors	Component	Material	Finish		Remark
Plug	Insulator	LCP	Color	Black	UL94V-0
	Contacts	Phosphor bronze	Plating	Au & Ni plating	
	Hold down	Phosphor bronze	Plating	Au & Ni plating	
Socket	Insulator	LCP	Color	Black	UL94V-0
	Contacts	Phosphor bronze	Plating	Au & Ni plating	
	Hold down	Phosphor bronze	Plating	Au & Ni plating	

■ CAD Date

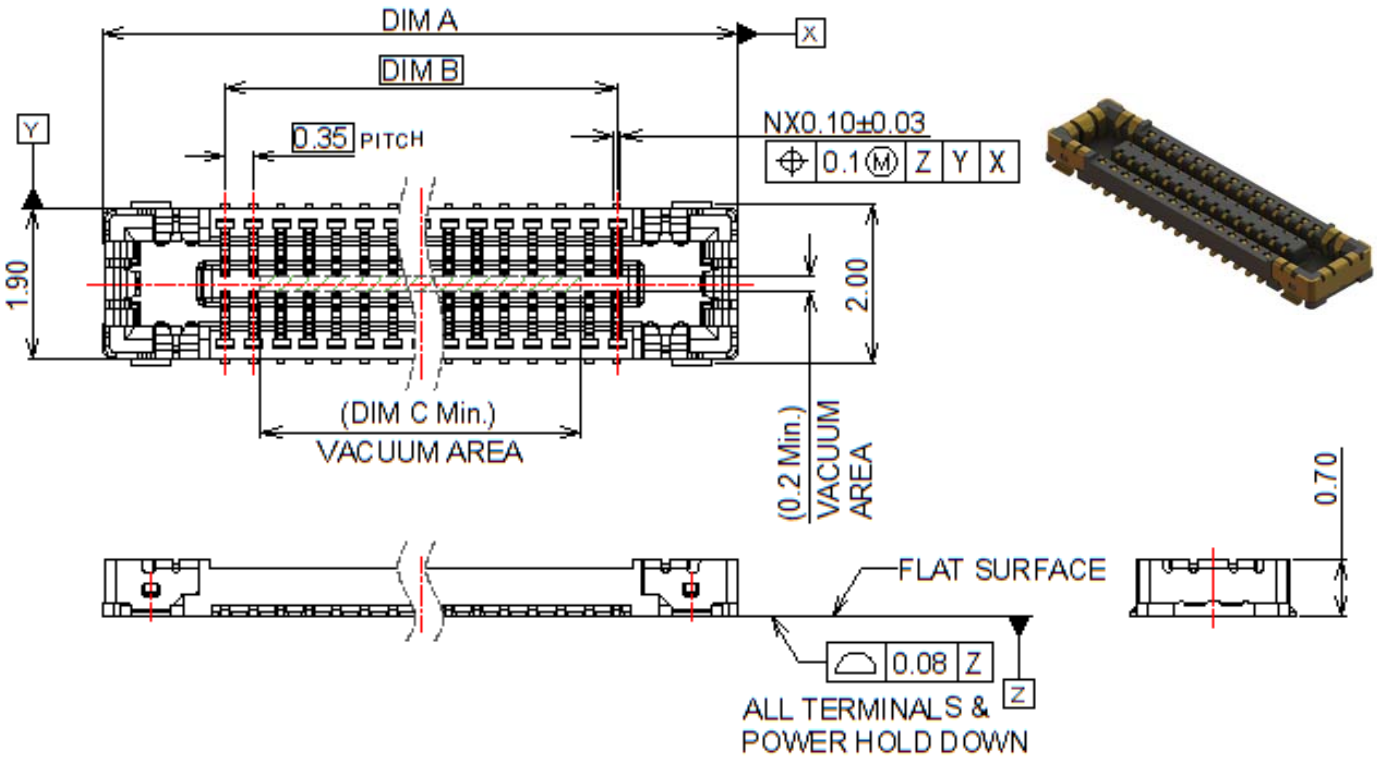
●Plug

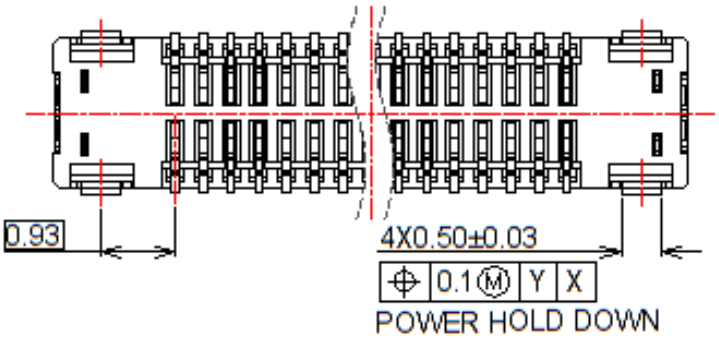
DIMENSION TABLE: UNIT:mm

POSITIONS	DIM A	DIM B	DIM C
10	3.58	1.40	1.0
24	6.03	3.85	2.0
30	7.08	4.90	2.0
34	7.78	5.60	5.0
40	8.83	6.65	5.0
50	10.58	8.40	5.0



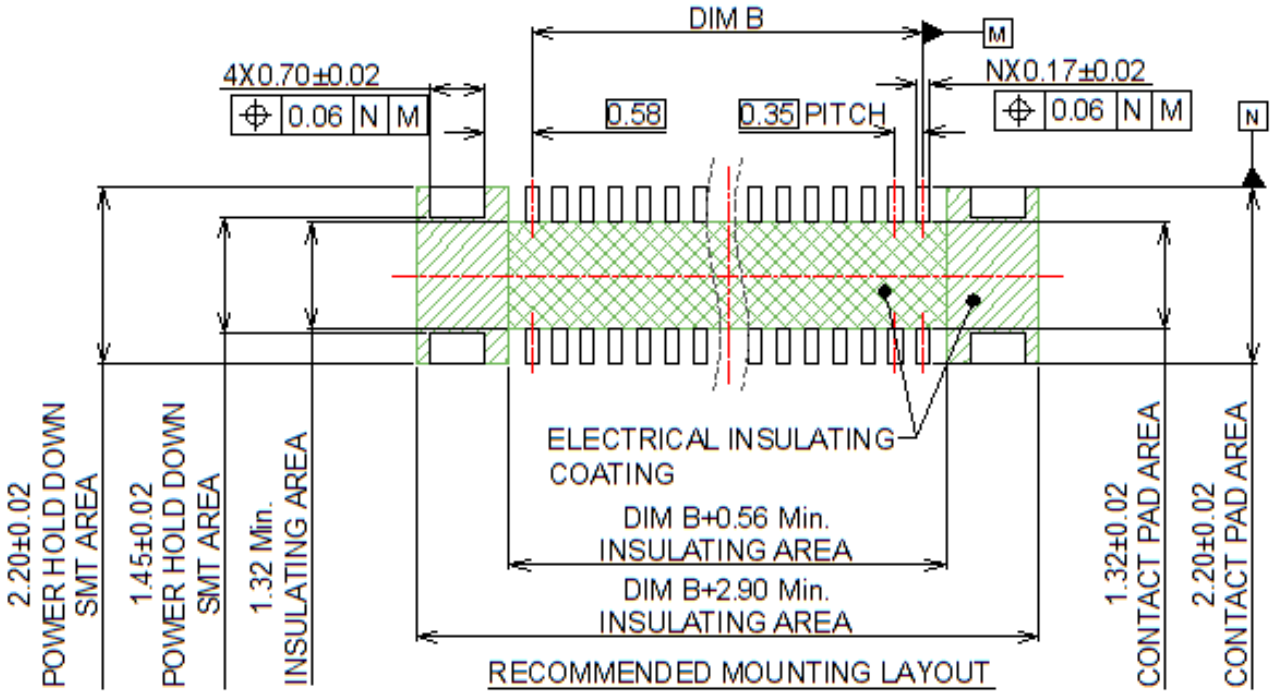
●Socket



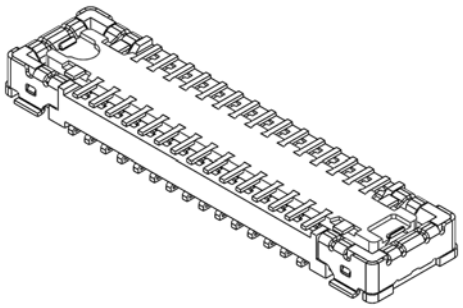


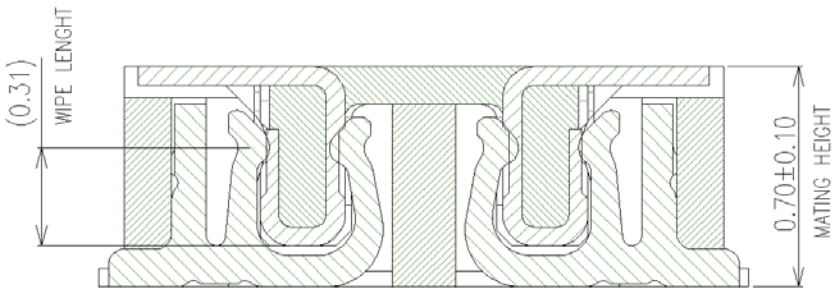
DIMENSION TABLE: UNIT: mm

POSITIONS	DIM A	DIM B	DIM C
10	4.44	1.40	1.0
24	6.89	3.85	2.0
30	7.94	4.90	2.0
34	8.64	5.60	5.0
40	9.69	6.65	5.0
50	11.44	8.40	5.0



●Mating Condition



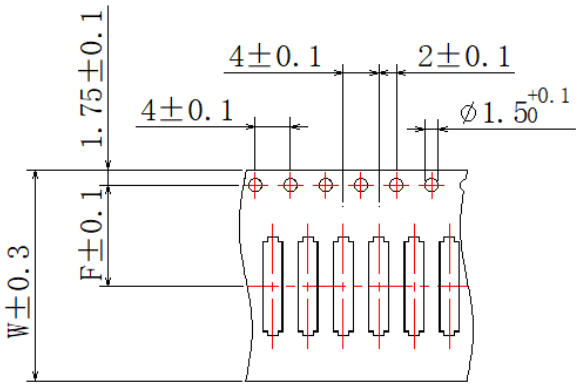


■ Packing Specification(EIA-481-D)

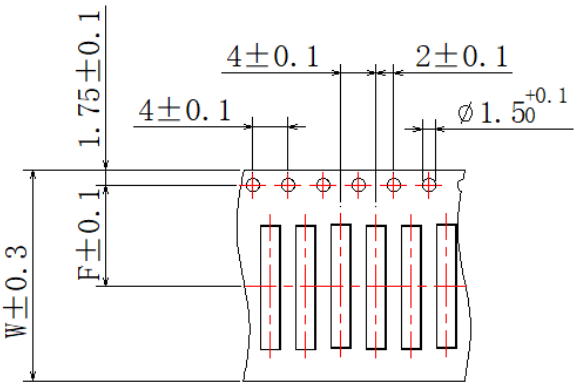
●Embossed Carrier Tape and Reel

Carrier tape

Unit: mm

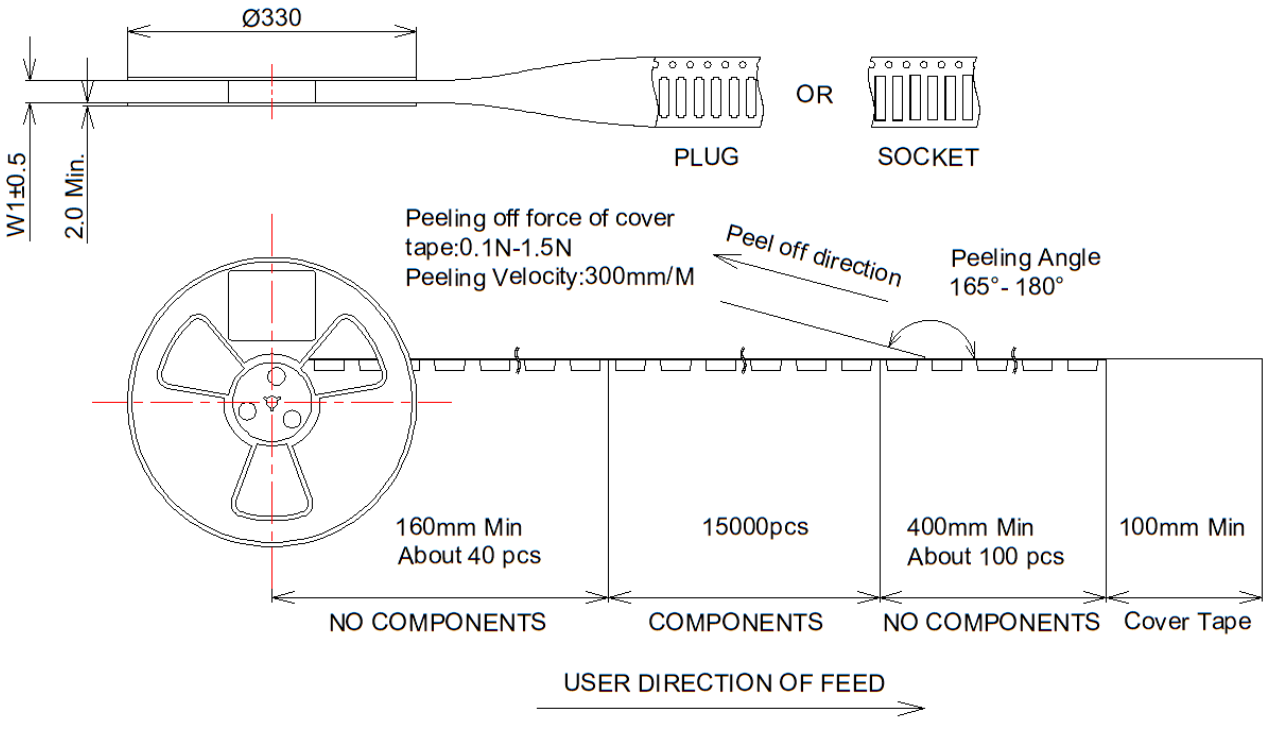


PLUG

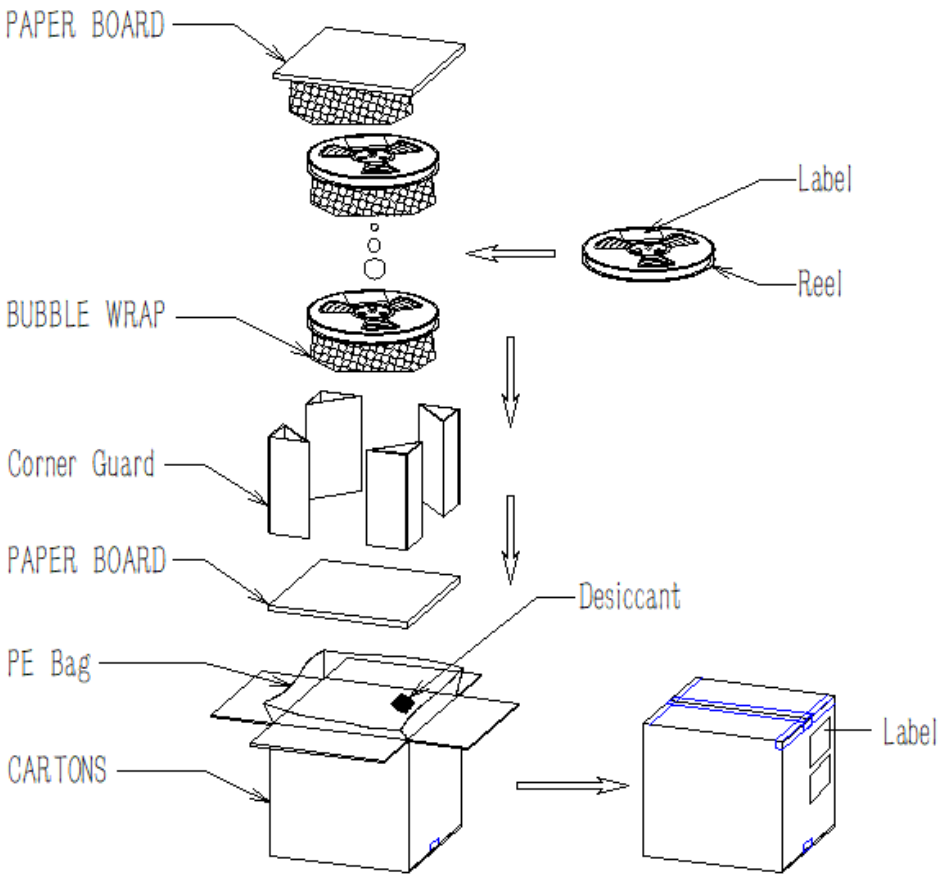


SOCKET

Reel



●Packing Sequence Diagram



Positions	W	F	W1	Pcs/Reel	Pcs/Box
10	12±0.3	5.5±0.1	12.4	15000	330000
24,30	16±0.3	7.5±0.1	16.4	15000	240000
34,40,50	24±0.3	11.5±0.1	24.4	15000	165000