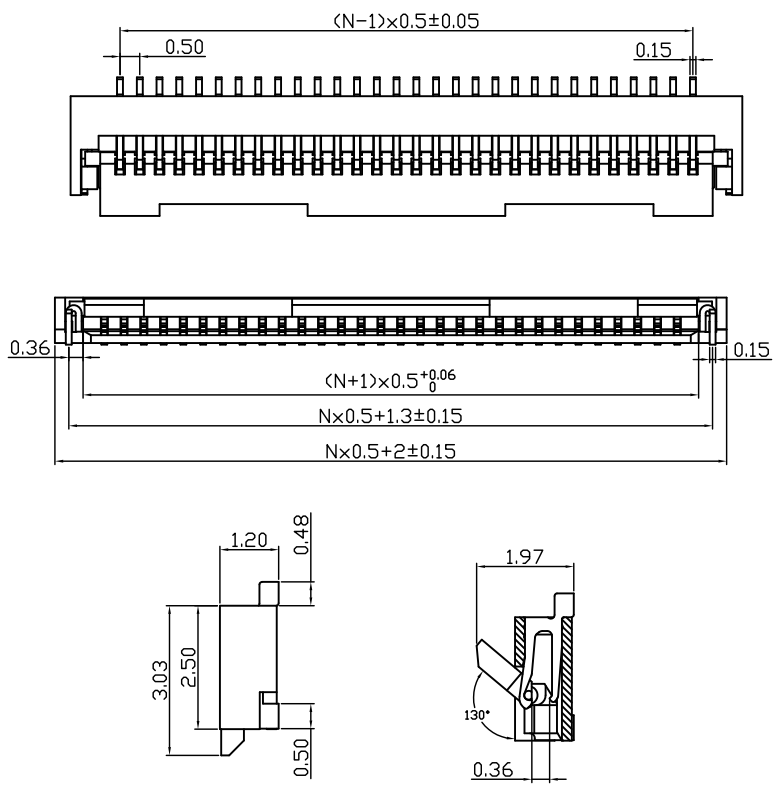


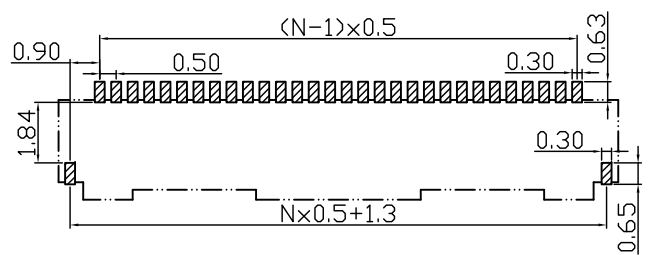


RoHS Compliant
2011/65/EU

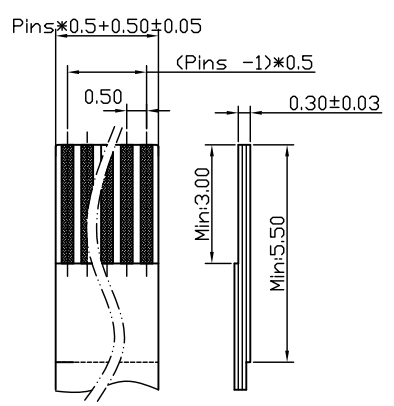
REACH SVHC
EC No.1907/2006



PC Board Layout



Applicable FFC/FPC



How to order

Z57-nn-C P T

- T = Packing
- P = Plating
- C = Contact Type
- nn = No.of Position

1=Reel
2=Tube
11=Tin 1um
21= Au Flash
22=Au 10u"
1=Single Contact
04...80

Technical Parameter

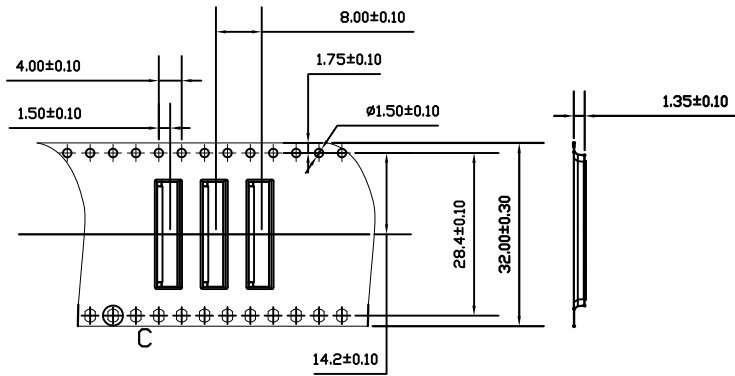
Pitch: 0.5mm
Current rating: 0.5A AC,DC
Voltage rating: 0V AC,DC
Temperature range: -40°C ~ +85°C
Withstand Voltage: 200V/min
Contact resistance: $\leq 0.03\Omega$
Insulation resistance: $\geq 500M\Omega$
Retention Force: $\geq 0,2N$ initial

Drawing Number:
Z57-XX

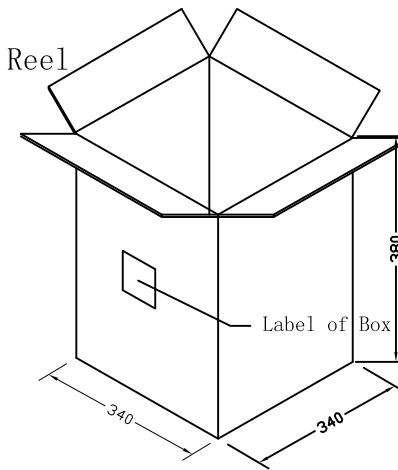
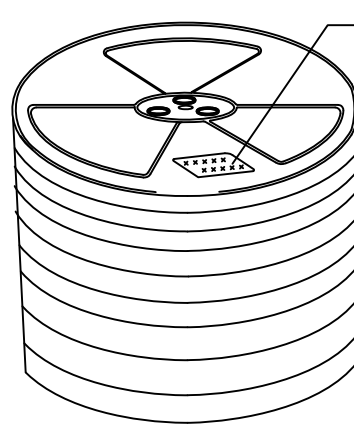
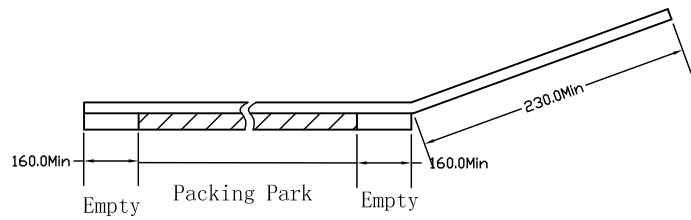
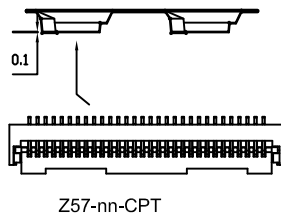
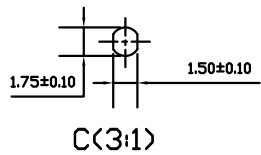
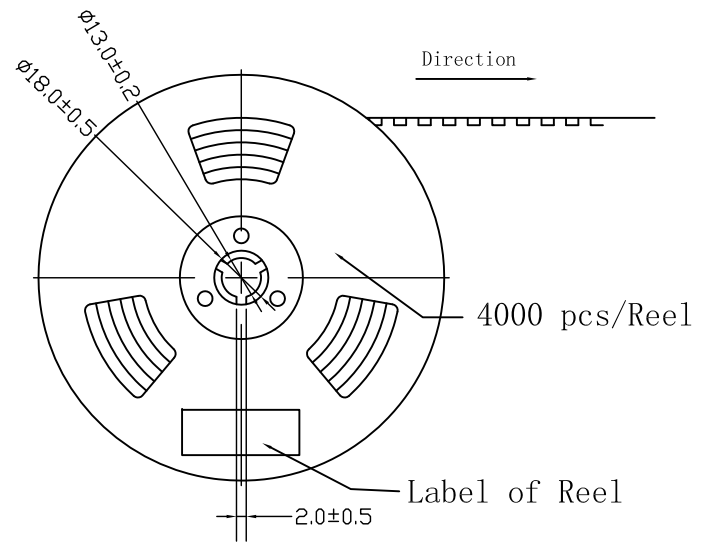
Ref. Number:
ZIF 0,5mm Lower Contact



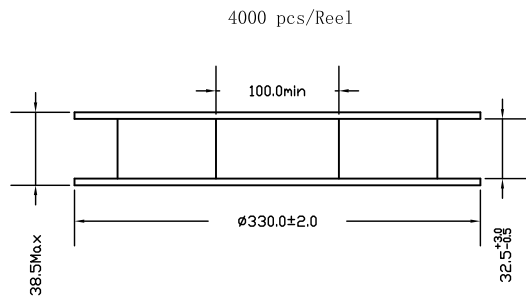
Item	Part Name	Material	Surface Plating	Others	Date	Modification	Contents	Revise Doc. Num.	Checked	Approval	Tolerance	Unit : MM	
1	Housing	LCP		UL94V-0							Dimensions		
2	Locking	LCP		UL94V-0							Angle		
3	Terminal	Phosphor Bronze	Ni $\geq 0.5 \mu m$ Sn/Cu $\geq 1.0 \mu m$								X. =0.3 X.X =0.25 X.XX=0.1	0.3°	Scale: 1:1
4	Solder Pad	Phosphor Bronze	Ni $\geq 0.5 \mu m$ Sn/Cu $\geq 1.0 \mu m$										Page: 1/2
												R00-2015-01-20	




Carrier: PS , Black
Cover: TPE , White



10 Reel/Box



4000 pcs/Reel

Belt Base:		PS ; Black		Drawing Number:			 ElectronAix ElectronAix GmbH & Co.KG	
Belt Cover:		TPE ; Transparent		Z57-XX				
Quantity :		4,000 Pcs/Reel		Ref. Number: ZIF 0,5mm Lower Contact				
Date	Modification	Contents	Revise Doc. Num.	Checked	Approval	Tolerance	Unit: MM	
						Dimensions	Angle	
						X. =0.3	0.3°	
						X.X =0.25		Scale:1:1
						X.XX=0.1		Page: 2/2
R00-2015-01-20								

Spezifikation Z57-xx Series
ZIF FFC/FPC Connector 0,5mm Pitch Double Contact H1,20mm Piano

1 Scope

This Specification covers the construction and characteristics of 0,5mm Pitch FFC and FPC (Flat Flexible Cable and Flat PCB Cable) of Z57-xx ZIF Connector Series. The part shall satisfy the following performance

2 Material and Plating

Item	Material	Plating	Remark
Terminal	Phosphor Bronze C5191R-H	Ni \geq 0,5um SN \geq 1,0um	ROHS REACH
Solder Pad	Phosphor Bronze C5191R-H	Ni \geq 0,5um SN \geq 1,0um	ROHS REACH
Base/Housing	LCP	Color: Nature	ROHS REACH UL94V-0
Lock	LCP	Color: Black	ROHS REACH UL94V-0

3 Environmental

The products meet EU RoHS Directive 2011/65/eu
The products meet EU REACH Directive 1907/2006/EU

4 Technical Parameter

Item	Specification
Voltage Rating	50V AC/DC
Current rating	0,5A AC/DC
Temperature Range	-40°C ... +85°C
Voltage Withstand	200V / Min.
Contact Resistance	\leq 0,03 Ω
Insulation Resistance	\geq 500M Ω

Spezifikation Z57-xx Series
ZIF FFC/FPC Connector 0,5mm Pitch Double Contact H1,20mm Piano

5 Performance

5.1 Electrical Performance

Item	Requirement	Testing Method
Contact Resistance	$\leq 0,03 \Omega$ Initial	Connecting the mated connector to a closed circuit of current 10mA and max. 20mV
Insulation Resistance	$\geq 500M \Omega$	Checking the resistance between terminals & terminals with grounding. MIL-STD-202, Method 302, Condition B (500V DC \pm 10%)
Dielectric Strength	Connector must withstand the test of 200V AC for 1minute and current leakage must be 0.5mA maximum.	Checking the dielectric strength between terminals & terminals with grounding. MIL-STD-202, Method 301.

5.2 Mechanical Performance

Item	Requirement	Testing Method
FFC/FPC Retention Force	$\geq 0,2N/Pcs$ initial	Withdraw FPC from the locked connector with a speed of 25 \pm 3 mm/minute
Contact Retention Force	$\geq 0,1N/Pcs$	pull out the terminal from connector base with a speed of 25 \pm 3 mm/minute.
Solderability	Appearance of the specimen shall be inspected after the test with the assistance of a 10X magnifier. No damage such as pinholes, void or rough surface should be found.	Reflow: 2 Cycles 250°C 5 Sec. Wave: 1 Cycle 250°C 5 Sec.
Resistance to Soldering Heat	No damage	255 \pm 5°C chamber for 10 \pm 0.5Seconds

5.3 Environmental Performance

Item	Requirement	Testing Method
Temperature rise	No damage, Contact Resistance $\leq 0.03\Omega$	Temperature range from -40°C to +85°C 3 Minute per cycles. Total 5 cycles.
High temperature	No damage, Contact Resistance $\leq 0.03\Omega$	Subject product to 85 \pm 2°C for 96 hours continuously. MIL-STD-202, Method 108
Low temperature	No damage, Contact Resistance $\leq 0.03\Omega$	Subject product to -40 \pm 2°C for 96 hours continuously. MIL-STD-202, Method 108
Humidity	No Damage, Contact Resistance $\leq 0.03\Omega$ Insulation Resistance $\geq 500 M\Omega$	Temperature:40 \pm 2°C 96 hours. Relative Humidity:90-95% MIL-STD-202, Method 103
Salt Spray	Surface: No serious oxidation Contact Resistance $\leq 0.03\Omega$	5 \pm 1% salt solution 48 \pm 4 hours 35 \pm 2°C MIL-STD-202, Meth.101 Cond. B
Flammability	Material conform to UL94V-0	Vertical burning method

Spezifikation Z57-xx Series
ZIF FFC/FPC Connector 0,5mm Pitch Double Contact H1,20mm Piano

6 Marking, Packing, Transportation, Store

6.1 Logo

Connector had stamped production line logo: LW

6.2 Packing

Inner packing with Plastic Tube or Tape & Reel.

Outer with a carton box.

No shaking.

6.3 Transportation

Allow using any transportation, but cannot expose under rain, snow, and machinery injury.

6.4 Store

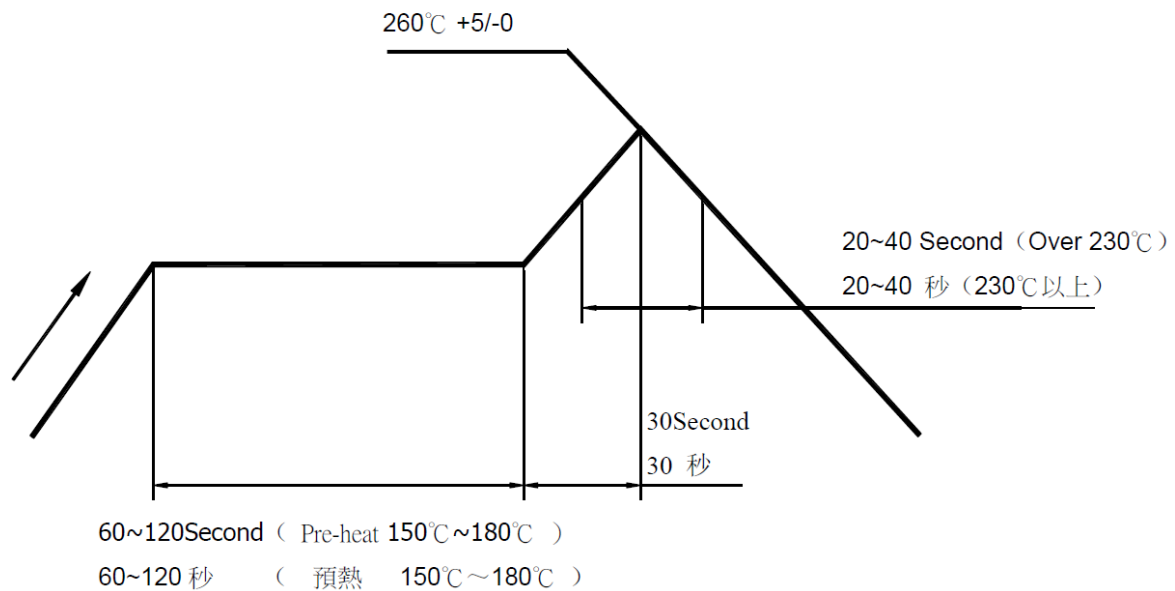
Finished goods should be kept in a well store environment.

Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$; Humidity maximum 80%

No acidity, alkalinity, corrosiveness gas are allow within the store.

Storage period is 24 month, if over 24 month has to reexamine.

7 Infrared Reflow Condition



Spezifikation Z57-xx Series
ZIF FFC/FPC Connector 0,5mm Pitch Double Contact H1,20mm Piano

8 How to Order

Zxy-nn-CPTO

O = Option

T = Packing 1 = Reel
 2 = Tube

P = Plating 11 = Tin 1um
 21 = Au Gold Flash
 24 = Au 10u“

C = Contact Type 1 = single contact
 2 = double contact

nn = No. of Positions 04 ... 80

y = mating style 1 = upper contact
 2 = lower contact
 3 = vertical Type A /
 4 = vertical Type B\
 5 = Easylock H1,56mm Double Contact
 6 = Easylock H1,96mm High Retention
 7 = Easylock H1,20mm Low Profile

Zx = Series Z1 = ZIF FFC / FPC 1,0mm Pitch
 Z5 = ZIF FFC / FPC 0,5mm Pitch
 Z3 = ZIF FFC / FPC 0,3mm Pitch
 Lx = LIF FFC / FPC 0,3mm Pitch