



承認書

SPECIFICATION FOR APPROVAL

DOC. NO. : JN96-01661-03

ISSUE DATE : 2021 / 07 / 29

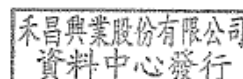
CUSTOMER :

PART NAME : FPC 0.5P CONNECTOR

PART NO. : 196542-XX041-3

APP. DATE :

MANUFACTURER SIGNATURE



☒ P-TWO INDUSTRIES INC.

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☐ P-TWO INDUSTRIES(S.Z.) CO.LTD.

NO.1,GONG YE NORTH ROAD,CO-PROSPERITY, INDUSTRIAL PARK, SONGGANG
OTWN, BAOAN DISTRICT, SHENZHEN CITY, GUANGDONG, CHINA
TEL:86-755-27551666 FAX:86-755-27551222

☐ P-TWO TECHNOLOGY CO.,LTD.

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HISTORY REVISION

Rev	Date	Page	Reason for revision.	ISS.
01	2020/08/19	Add	Initial Release	Sherry
02	2021/02/01	P.2	Replace the Current Rating	Sherry
03	2021/7/29	P.5	Update 7.4 240H→24H	Ann

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SPECIFICATION OF PRODUCTS

0.5mm PITCH FFC/FPC CONNECTOR

1. Scope:

This specification covers the requirements for product performance, and test methods provisions of 0.5mm PITCH FFC/FPC CONNECTOR.

2. Applicable documents:

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

2.1 Standard and Specifications:

EIA 364 Test methods for electrical component parts

IEC-60068 Test methods for electrical component parts

3. Requirements:

3.1 Designs and Construction:

Product shall be of the design, construction and physical dimensions specified in the applicable product drawing.

3.2 Materials:

A. Terminal: Copper Alloy. Gold Plating (Lead Free).

B. Fitting Nail: Copper Alloy. Matte Tin Plating (Lead Free).

C. Housing: Heat Resistance Plastic (UL94 V-0).

D. Actuator: Heat Resistance Plastic (UL94 V-0).

3.3 General Specification:

A. Voltage Rating: 50V (AC/DC)/Contact.

B. Current Rating: 0.4A (AC/DC)/Contact.

C. Temperature & Humidity (Operating): -40°C~+125°C, 95%MAX.

D. Temperature & Humidity (Transportation): -40°C~+125°C, 75%MAX.

E. Storage Temperature & Humidity (Storage): -5°C~ 40°C/ 10%~75% up to 1 year

3.4 GP requires substances (level1) forbidden

(Including orders placed to subcontractors)

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4. Electrical Performance :

No.	Items	Requirements	Test Procedures
4.1	Contact Resistance	Initial 50 m Ω , MAX.	EIA-364-23C-2006(R2017) (termination of connector or socket to board carrier or cable shall be included in measurements). (Max : 20mV , 100mA)
4.2	Insulation Resistance	500 M Ω MIN	It should be tested in accordance with method EIA-364-21E-2014. When 100V DC is applied between adjacent contacts and insulation resistance is measured within one minute.
4.3	Dielectric Strength	No Breakdown	The connector shall be tested in accordance with method EIA-364-20F-2019 . When the 150V AC r.m.s for one minute applied between adjacent contacts.
4.4	Temperature Rise	30°C MAX. At current rating 0.4A	In accordance with method EIA-364-70C-2014 At the intervals specified, the temperature rise shall be measured as follows : Test current(DC) 0.4 A, . Duration : 1 hour or arrived thermal balance.

5. Mechanical Performance :

No.	Items	Requirements	Test Procedures
5.1	Appearance	Product shall be conforming to the requirements of applicable product drawing.	Visually, dimensionally and functionally inspected per applicable product drawing.
5.2	FFC/FPC Retention Force	30gf / PIN MIN	In accordance with method EIA-364-13E-2011 (R2017) Insert the actuator, pull the FFC/FPC at the speed rate of 25.4 mm/minute.
5.3	Terminal Retention Force	50 gf MIN.	In accordance with method EIA-364-29C-2006 (R2013) Apply axial pull out of force at the speed of 25.4 \pm 3 mm/min on the terminal assembled in the housing.
5.4	Fitting Nail Retention Force	100 gf MIN.	In accordance with method EIA-364-29C-2006 (R2013) Apply axial pull out of force at the speed of 25.4 \pm 3 mm/min on the fitting nail assembled in the housing.

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6. Physical Performance :

No.	Items	Requirements	Test Procedures
6.1	Durability	Appearance neither damage nor crack. Contact Resistance : 50mΩ MAX	In accordance with method EIA-364-09D-2018 Mate applicable FFC/FPC and insert and withdraw actuator at the speed rate of 25±3 mm/minute. Times : Up to 20 cycles
6.2	Vibration	Appearance : no damage, cracks, or parts dislocation. Contact Resistance : 50mΩ MAX Discontinuity : 1μs MAX	Refer to method EIA-364-28F-2011(R2017) Waveform : Sine waveform Frequency : 10~ 50~1000 Hz Acceleration : 100 m/s ² Sweep rate : Log sweep 15 min / reciprocation Amplitude : 2mm(peak to peak) Direction : Three (X, Y, Z) directions Duration : 24 hours for each direction
6.3	Shock	Appearance : no damage, cracks, or parts dislocation. Contact Resistance : 50mΩ MAX Discontinuity : 1μs MAX	Refer to method EIA-364-27C- 2011 (R2017) MAX acceleration : 50G Wave form : Half sine wave Orientation : X,Y,Z (3 axes) Duration : 6ms./axis Times : 3 strokes in each X,Y,Z axis
6.4	Solderability	More than 95% of the immersion shall be covered with solder.	It should be tested to compare with method EIA-364-52B-2009 Steam Aging 8H Soldering time : 5±0.5 seconds Solder temperature : 245±5°C
6.5	Resistance to soldering heat	No deformation of components affecting performance.	In accordance with method EIA-364-56E-2011 (R2017) 1. manual soldering : Soldering time : 3 seconds MAX Solder temperature : 350±10°C 2.Reflow : Peak temperature : 260+5/-0°C Time: 10 +2/-0 Sec Condition : 2 cycles

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7. Environmental Performance :

No.	Items	Requirements	Test Procedures
7.1	Salt spray	Contact Resistance : 50mΩ MAX	In accordance with method EIA-364-26C(R2019) Test condition:B Temperature : 35+1°C /-2°C Density : 5±1% in weight Duration : 96 hours
7.2	Humidity (steady state)	Appearance neither damage nor corrosion. Contact Resistance : 50 mΩ MAX Dielectric Strength : No Breakdown Insulation Resistance : 50 MΩ MIN	Refer to method EIA-364-31F-2019 Temperature : 60±2°C Relative Humidity : 90~95% Duration : 1000 hours
7.3	Temperature cycling (Thermal Shock)	Contact Resistance : 50mΩ MAX Insulation Resistance : 50 MΩ MIN	Refer to method EIA-364-32G-2014 -40°C/+125°C/ Duration 1000 cycles dwell 10 min
7.4	Humidity, temperature cycling	Insulation Resistance : 50MΩ MIN. Contact Resistance : 50mΩ MAX. Dielectric Strength : No Breakdown.	Refer to method EIA-364-31F-2019 RELATIVE HUMIDITY 90 TO 96 % Temperature : -10 °C ± 3 °C to 65 °C ± 3 °C Cycle duration: 24 hours Duration: 10 cycles
7.5	Temperature life High (Heat Resistance)	Contact Resistance : 50mΩ MAX. Appearance neither damage nor crack.	In accordance with method IEC-60068-2-2 2007 Temperature : 125±2°C Duration : 1000 hours
7.6	Temperature life Cold (Cold Resistance)	Contact Resistance : 50mΩ MAX. Appearance neither damage nor crack.	In accordance with method IEC-60068-2-1 2007 Temperature : -40±2°C Duration : 1000 hours

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No.	Items	Requirements	Test Procedures
7.7	SULPHUR DIOXIDE	Contact Resistance : 50mΩ MAX NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	In accordance with method JIS C 60068-2-42 EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% ,25±5 ppm Duration : 96 hours
7.8	HYDROGEN SULPHIDE	Contact Resistance : 50 mΩ MAX NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	In accordance with method JIS C 60068-2-43 EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 10 TO 15 ppm Duration : 96 hours

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ORDERING INFORMATION

0.5mm PITCH FFC/FPC CONNECTOR

Specifications:

Part Name: 0.5mm PITCH FFC/FPC Connector.

Connector Styles: Wire to Board Connector.

ZIF (Zero Insertion Force) Type.

Mounting of Connector On Board:

SMT (Surface Mounted Technology) Type.

Centerline (Pitch):0.5mm (0.02 inch)

Part No.:

1	96	542
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3

(1) (2) (3) (4) (5)

(1) Type Of Connectors:

542 : FPC 0.5P Swing Actuator Type

(2) No. Of Contacts:

6~80 pin

(3) Plating:

04: Gold Plating (Lead Free).

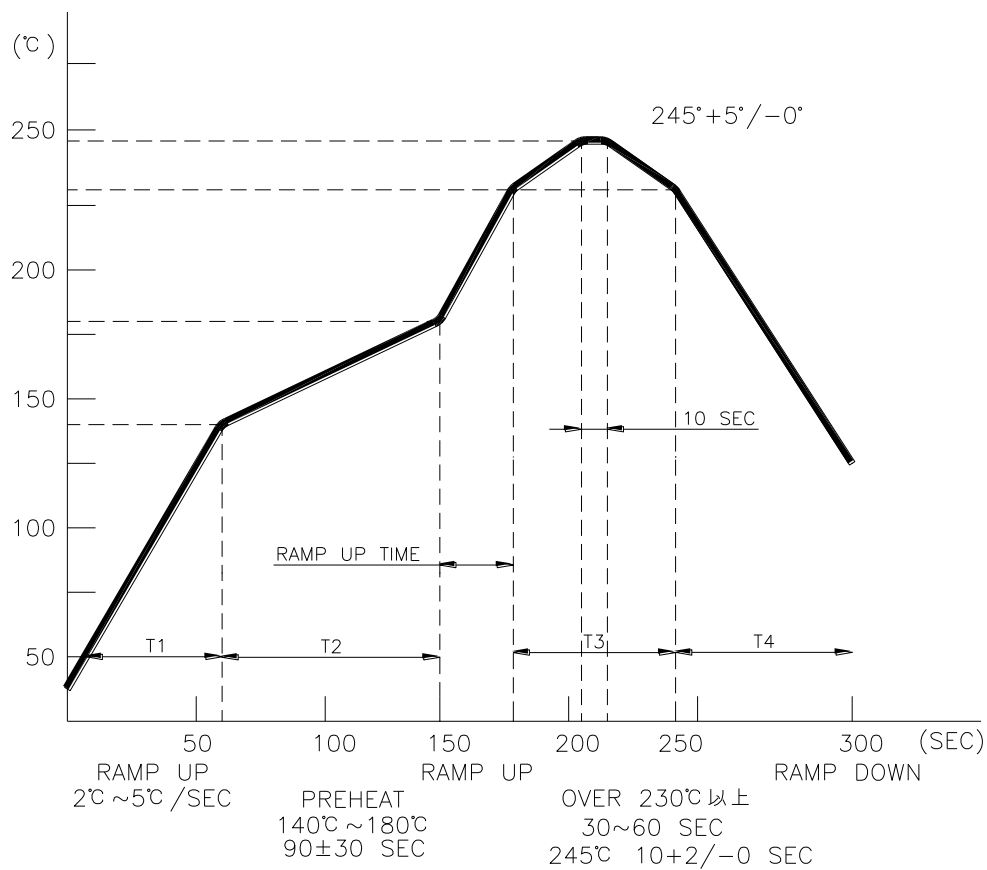
(4) Packaging:

1: Tape & Reel.

(5) Halogens-Free

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INFRARED REFLOW CONDITION



T1:	Temperature Ramp Up Rate	$2^{\circ}\text{C} \sim 5^{\circ}\text{C} / \text{SEC}$
T2:	Preheat: $140^{\circ}\text{C} \sim 180^{\circ}\text{C}$	$90 \pm 30 \text{ SEC}$
T3:	Time Over 230°C	$30 \sim 60 \text{ SEC}$
T4:	Ramp Down Rate During Cooling	$4^{\circ}\text{C} \sim 7^{\circ}\text{C} / \text{SEC}$
	Peak Temperature	$245^{\circ}\text{C} + 5^{\circ} / - 0^{\circ}$

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MATERIAL REFERENCE TABLE

Parts Name	General Name	Model No.	Heat Resistance Level	UL Card NO.
Housing	LCP	E481i(h1)	UL94 V-0	E106764
Actuator	PA 4T	F11(h7) (NC1101A)	UL94 V-0	E47960
Terminal	Phosphor Bronze	C5210R-SH	—	—
Fitting Nail	Brass	C2680R-H	—	—

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PLASTIC MATERIAL CERTIFICATE OF HOUSING

General Properties of E481i

table1-1 General Properties (ISO)

Item	Unit	Test Method	High Heat Resistance, High Flow
			E481i
			Low warpage
Color			VF2201/BK210P
ISO(JIS)quality-of-the-material display:		ISO11469 (JIS K8999)	>LCP-(GF+MD)45<
Density	g/cm ³	ISO 1183	1.77
Tensile strength*	MPa	ASTM D638	115
Tensile elongation*	%	ASTM D638	1.6
Flexural strength	MPa	ISO 178	160
Flexural modulus	MPa	ISO 178	13000
Flexural strain	%	ISO 178	1.7
Charpy impact strength (notched)	kJ/m ²	ISO 179/1eA	7
Temperature of deflection under load (1.8MPa)	°C	ISO 75-1,2	260
Dielectric breakdown strength (1mmt)	kV/mm	IEC 60243-1	-
Dielectric breakdown strength (3mmt)	kV/mm	IEC 60243-1	-
Volume resistivity	Ω·cm	IEC 60093	-
Dielectric constant (1kHz)		IEC 60250	-
Dielectric constant (1MHz)		IEC 60250	-
Dielectric dissipation factor (1kHz)		IEC 60250	-
Dielectric dissipation factor (1MHz)		IEC 60250	-
Tracking resistance (CTI)	V	IEC 60112	-
Arc resistance	s		-
Mold Shrinkage (80□×1mmt, Flow direction, Injection pressure60MPa)	%		0.06
Mold Shrinkage (80□×1mmt, Transverse direction, Injection pressure60MPa)	%		0.55
Mold Shrinkage (80□×1mmt, Flow direction, Injection pressure79MPa)	%		-
Mold Shrinkage (80□×1mmt, Transverse direction, Injection pressure79MPa)	%		-
Flammability		UL94	V-0
The yellow card File No.			E106764
Appropriate List number of Ministerial Ordinance for Export Trade Control			Item 16 of Appendix -1

All figures in the table are the typical values of the material and not the minimum values of the material specifications.

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PLASTIC MATERIAL CERTIFICATE OF HOUSING


Component - Plastics

File Number: E106764

POLYPLASTICS CO LTD

18-1 KONAN 2 CHOME, MINATO TOKYO 1088280 JP


LAPEROS: E481i(h1)

Liquid Crystal Polymer (LCP), pellets

(h1) - Virgin and regrind up to 50% by weight inclusive have the same flammability characteristics with a minimum thickness of 1.5 mm in NC and 0.4 mm in BK.

Flammability	Value	Test Method
Flame Rating		UL 94
0.100 mm, NC, BK	V-0	
0.40 mm, NC, BK	V-0	
1.5 mm, NC, BK	V-0	
3.0 mm, NC, BK	V-0	
Flammability Classification		IEC 60895-11-10, -20
0.100 mm, NC, BK	V-0	
0.40 mm, NC, BK	V-0	
1.5 mm, NC, BK	V-0	
3.0 mm, NC, BK	V-0	
Thermal	Value	Test Method
RTI Elec		UL 746
0.100 mm	130 °C	
0.40 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Imp		UL 746
0.100 mm	130 °C	
0.40 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
RTI Str		UL 746
0.100 mm	130 °C	
0.40 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	

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PLASTIC MATERIAL CERTIFICATE OF ACTUATOR

NC1101A (Provisional)

Property Data

PA4T-GF30 FR

30% Glass Reinforced, halogen free flame retardant

Properties	Typical Data	Unit	Test Method
RHEOLOGICAL PROPERTIES			
	dry / cond		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
MECHANICAL PROPERTIES			
	dry / cond		
Tensile modulus	12000 / -	MPa	ISO 527-1/-2
Stress at break	160 / -	MPa	ISO 527-1/-2
Strain at break	2 / -	%	ISO 527-1/-2
Flexural modulus	11500 / -	MPa	ISO 178
Charpy Impact strength (+23°C)	50 / -	kJ/m ²	ISO 179/1eU
Charpy notched Impact strength (+23°C)	10 / -	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	dry / cond		
Melting temperature (10°C/min)	325 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	305 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	3 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	4 / *	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES			
	dry / cond		
Electric strength	33 / -	kV/mm	IEC 60243-1
Comparative tracking Index	600 / -	-	IEC 60112
OTHER PROPERTIES			
	dry / cond		
Density	1460 / -	kg/m ³	ISO 1183

04/06/2019

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 **DSM**Product

 **Unlimited DSM**

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PLASTIC MATERIAL CERTIFICATE OF ACTUATOR


Component - Plastics

File Number: E47960

DSM ENGINEERING MATERIALS B V
URMONDERBAAN 22
GELEEN, 6167 RD Netherlands


ForTii®: F11(h7)

Polyamide 4T (PA4T), pellets

(h7) - Virgin and regrind, up to 50% by weight inclusive, have the same basic material characteristics, with respect to Flammability.

Flammability	Value	Test Method
Flame Rating		UL 94
0,200 mm, ALL	V-0	IEC 60695-11-10, -20
0,35 mm, ALL	V-0	
0,75 mm, ALL	V-0	
1,5 mm, ALL	V-0	
3,0 mm, ALL	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0,35 mm	960 °C	
0,75 mm	960 °C	
1,5 mm	960 °C	
3,0 mm	960 °C	
Glow Wire Ignition Temperature		IEC 60695-2-13
0,35 mm	775 °C	
0,75 mm	800 °C	
1,5 mm	800 °C	
3,0 mm	800 °C	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746
0,35 mm	PLC 0	
0,75 mm	PLC 0	
1,5 mm	PLC 0	
3,0 mm	PLC 0	
High Amp Arc Ignition (HAI)		UL 746
0,35 mm	PLC 2	
0,75 mm	PLC 1	
1,5 mm	PLC 1	
3,0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Arc Resistance	PLC 5	ASTM D495
Comparative Tracking Index (3,00 mm)	600 V	IEC 60112
Thermal	Value	Test Method
RTI Elec		UL 746
0,200 mm	130 °C	
0,35 mm	130 °C	
0,75 mm	140 °C	
1,5 mm	140 °C	
3,0 mm	140 °C	

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PLASTIC MATERIAL CERTIFICATE OF ACTUATOR

Component - Plastics

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Thermal	Value	Test Method
RTI Imp		UL 746
0,35 mm	130 °C	
0,75 mm	130 °C	
1,5 mm	130 °C	
3,0 mm	130 °C	
RTI Str		UL 746
0,35 mm	130 °C	
0,75 mm	130 °C	
1,5 mm	130 °C	
3,0 mm	130 °C	
Ball Pressure Test (305°C, 3.00 mm)	Pass	IEC 60695-10-2

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P-TWO INDUSTRIES INC.

METAL MATERIAL CERTIFICATE OF TERMINAL



福建紫金铜业有限公司
Fujian Zijin Copper CO., LTD.

产品质量证明书 INSPECTION CERTIFICATE

福建省上杭县南岗工业区 邮编 364200
Nengang Industrial Park, Shanghang
county, Fujian
P.C. 364200 P.R. China
TEL (0597) 3960609

客户 CUSTOMER: 盛耀全球有限公司

NO: 17040757

带卷号 Q8730411B2 牌号: C5210 状态: SH 规格: 0.15*400

化学成分 CHEMICAL COMPOSITION % 化学标准 JIS H 3130:2012

Cu	Sn	P	Zn	Ni	Pb	Fe	Al	Cu+Sn+P≥
92.15	7.62	0.16	0.016	0.036	<0.0020	<0.0005	<0.0005	99.93

物理性能 PHYSICAL PROPERTY 性能标准 JIS H 3130:2012

抗拉 (MPa)	延伸率 (%)	维氏硬度 (HV)	公差 (mm)	弯曲试验	件数	重量kg
735	19	237	-0.01	无裂纹	3	3853.4
降服 (MPa)	粗糙度 正 (um)	粗糙度 反 (um)				

发货日期: 2017-4-25

检 验: 259

备注:



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P-TWO INDUSTRIES INC.

METAL MATERIAL CERTIFICATE OF FITTING NAIL

产品质量保证书

CERTIFICATE OF QUALITY

客户名称 (Customer)	昆山树鹏	发货重量 (Weight)	2.454
产品名称 (Commodity)	H65	生产日期 (Date)	2017-4-24
生产批号 (Lot NO.)	G3052	执行标准 (Carried Standard)	GB/T2059-2008



安徽楚江科技新材料股份有限公司

ANHUI TRICHUM ADVANCED MATERIALS AND TECHNOLOGY Co., Ltd

地址: 安徽省芜湖市九华北路8号

邮编: 241008 电话: 0553-5317077

No.8JiuhuaNorthRoad,Wuhu City,An hui,China 241008

尺寸公差 (Size & Tolerance)

规格 Specification (mm×mm×mm)	厚度公差 Thickness Tolerance (mm)	宽度公差 Width Tolerance (mm)	长度公差 Length Tolerance (mm)
0.15 ^{+0.01} ×400 ⁺ H	-0.01	—	—

化学成份 (Chemical Composition)

元素名称 (Element)	铜 (Cu) %	磷 (P) %	铅 (Pb) %	铁 (Fe) %	锌 (Zn) %
含量标准 (Standard)	63.5~68.0	≤0.0040	≤0.0090	≤0.10	余量 (R)
实测值 (Value)	64.31	0.0025	0.0078	0.0229	余量 (R)

物理性能 (Mechanical Properties)

检测项目 (Testing Items)	抗拉强度 Tensile Strength (N/ mm ²)	延伸率 Elongation (%)	硬度值 Hardness (HV)	杯突值 Drawability (mm)	晶粒度 Grain Size (mm)
实测值 (Value)	454.0	17.3	151.0	—	—

一、本保证书未报项次 (如形状精度、表面质量等) 均合格。

The other unreported items in the paper, such as shape precision, appearance quality etc. are up to standard.

二、本保证书希妥善保管, 如对我公司的产品品质有异议, 持保证书在一个月內与我公司联系, 本公司将竭诚为您服务。

Pls always keep this paper safe and contact us within one month if you have any disagreements with our quality. We will serve you wholeheartedly.

三、本保证书盖章有效 (复印无效)。

We accept paper with seal. (Duplicate is invalid)

质量主管: 文志凌

Manager of Quality Assurance Dept.

实验人: 张超 韦金金

Operator of test: Zhang Chao Jinjin Wei

质量专用章:

Seal of Quality Assurance Dept



Product Name:
FPC0.5 CONNECTOR

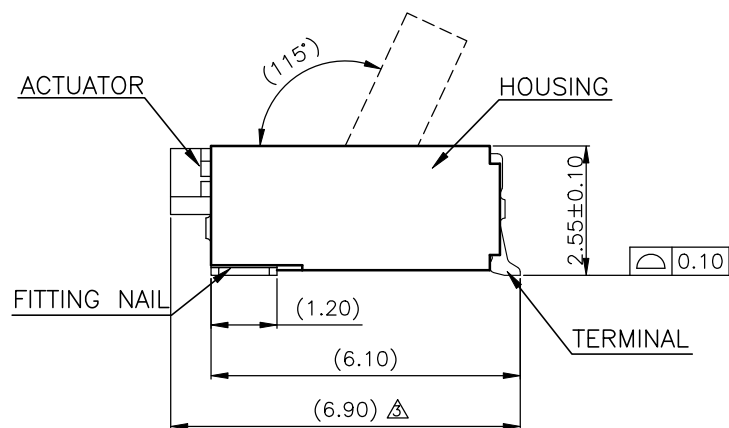
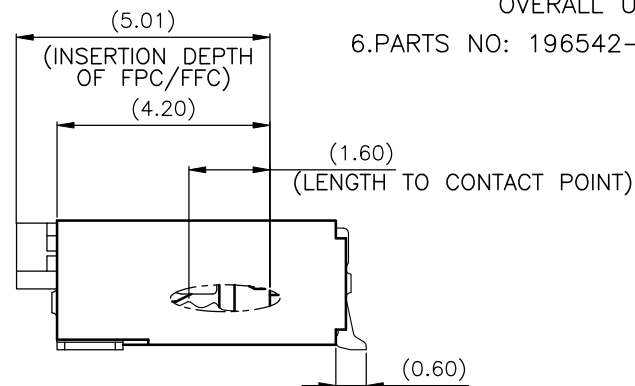
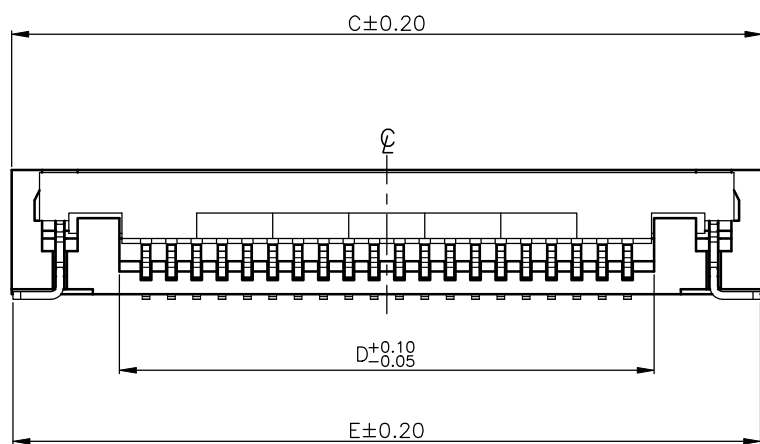
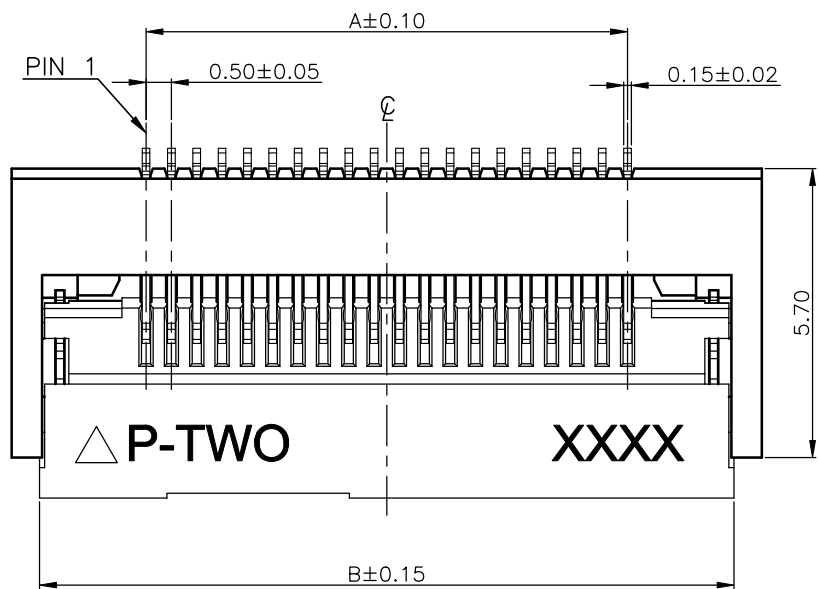
Document No.:
JN96-01661

REV.:
03

File Name:
196542-XX041-3

Issue Date:
2021/07/29

Page:
16 of 16



NOTES:

- 1.HOUSING MATERIAL: HEAT RESISTANCE PLASTIC UL94 V-0;NATURE
- 2.ACTUATOR MATERIAL: HEAT RESISTANCE PLASTIC UL94 V-0;BLACK
- 3.TERMINAL MATERIAL: COPPER ALLOY
- 4.FITTING NAIL MATERIAL: COPPER ALLOY
- 5.PLATING:

TERMINAL:GOLD SELECTIVE PLATED OVER NICKEL
FITTING NAIL:OVERALL SURFACE PLATED WITH MATTE TIN.

OVERALL UNDER PLATED WITH NICKEL

6.PARTS NO: 196542-XX041-3

No. of Contacts
06~40PINS

TIANMA

P-TWO INDUSTRIES INC.

CUSTOMER DRAWING

UNLESS OTHERWISE
SPECIFIED
TOLERANCES ARE
X.X ±0.25
X.XX ±0.15
X.XXX
ANG. ±0°30'

APPROVED BY
Jacky Lin
CHECKED BY
tungchiug Kuan
DRAWN BY
tungchiug Kuan

TITLE
FPC 0.5 EASY LOCK
H2.55 CONNECTOR
PART NO
196542-XX041-3

△
SER

NA2206XX
DESCRIPTION

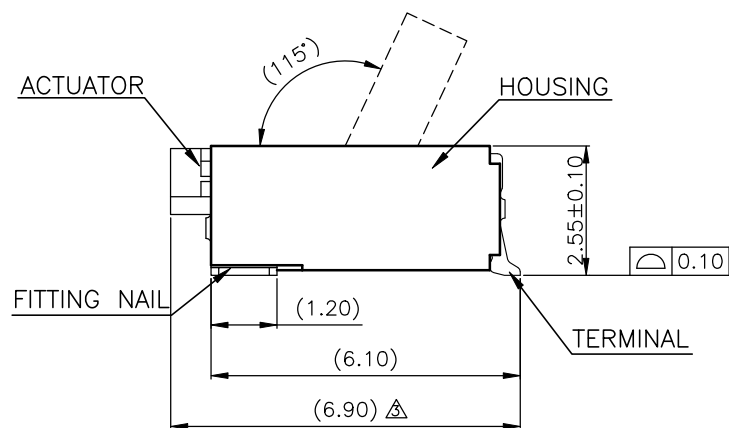
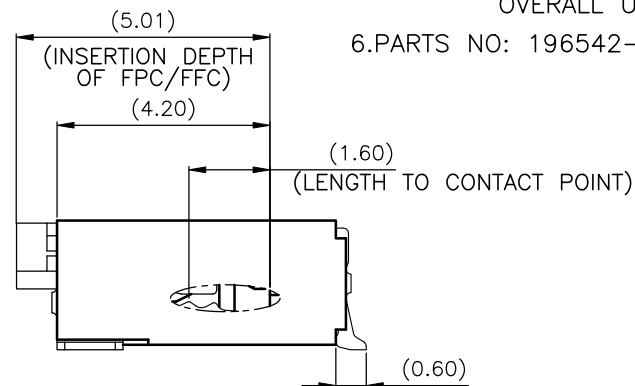
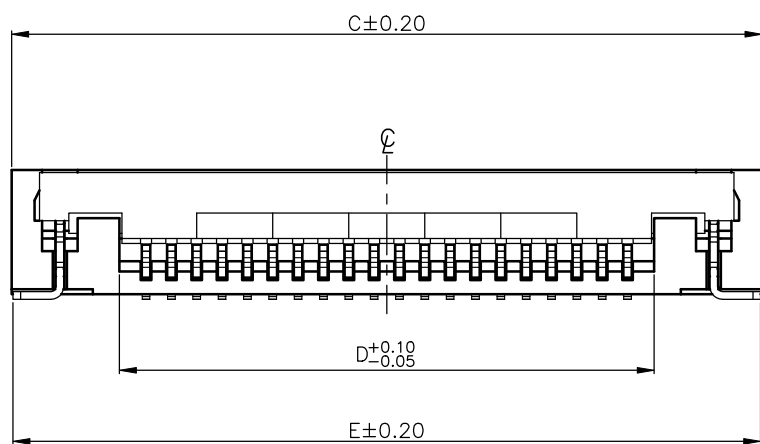
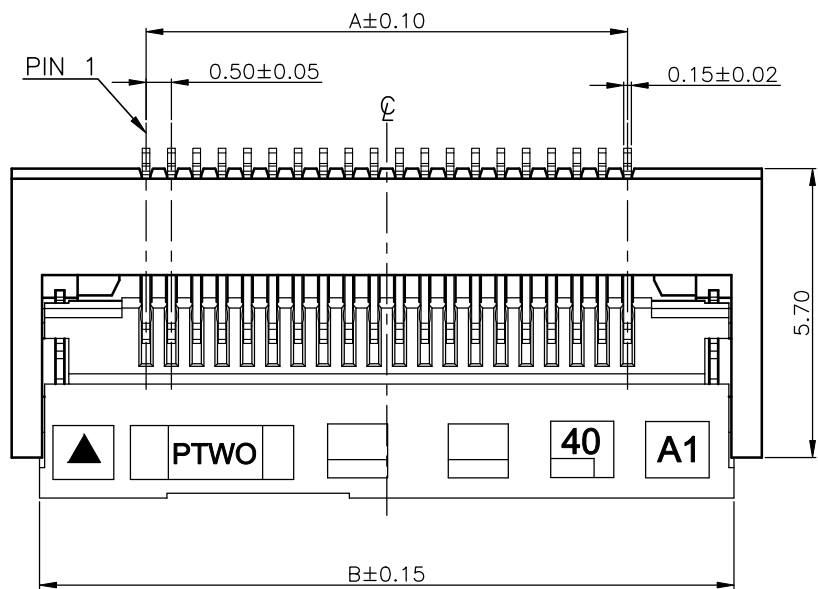
Jacky.Lin
APPROVED BY
Tungchiug.Kuan
DRAWN BY

UNIT
mm

SIZE
A4

DRAWN DATE
2021/02/08

REV
D
SHEET
1/3
SCALE
9:1
PAGE
-



NOTES:

- 1.HOUSING MATERIAL: HEAT RESISTANCE PLASTIC UL94 V-0;NATURE
- 2.ACTUATOR MATERIAL: HEAT RESISTANCE PLASTIC UL94 V-0;BLACK
- 3.TERMINAL MATERIAL: COPPER ALLOY
- 4.FITTING NAIL MATERIAL: COPPER ALLOY
- 5.PLATING:
TERMINAL:GOLD SELECTIVE PLATED OVER NICKEL
FITTING NAIL:OVERALL SURFACE PLATED WITH MATTE TIN.
OVERALL UNDER PLATED WITH NICKEL
- 6.PARTS NO: 196542-XX041-3

No. of Contacts
45~80PINS

TIANMA

P-TWO INDUSTRIES INC.

CUSTOMER DRAWING

UNLESS OTHERWISE
SPECIFIED
TOLERANCES ARE
X.X ±0.25
X.XX ±0.15
X.XXX
ANG. ±0°30'

APPROVED BY
Jacky Lin
CHECKED BY
tungchiug Kuan
DRAWN BY
tungchiug Kuan

TITLE
FPC 0.5 EASY LOCK
H2.55 CONNECTOR
PART NO
196542-XX041-3



NA2206XX
DESCRIPTION

Jacky.Lin
APPROVED BY
Tungchiug.Kuan
DRAWN BY

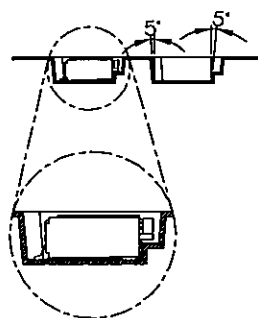
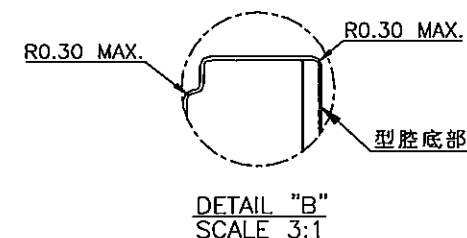
UNIT
mm

SIZE
A4

DRAWN DATE
2021/02/08


REV D
SHEET 2/3
SCALE 9:1
PAGE -

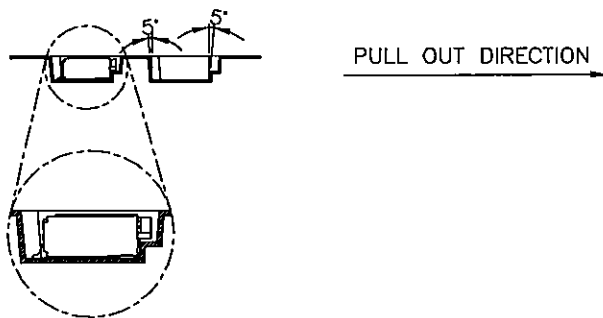
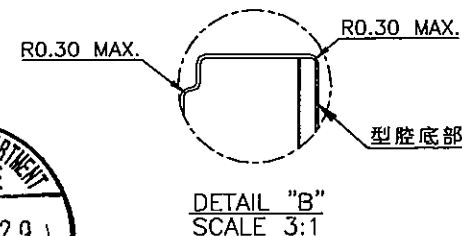
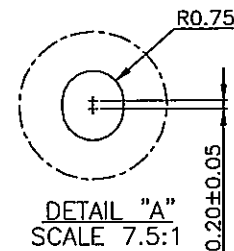
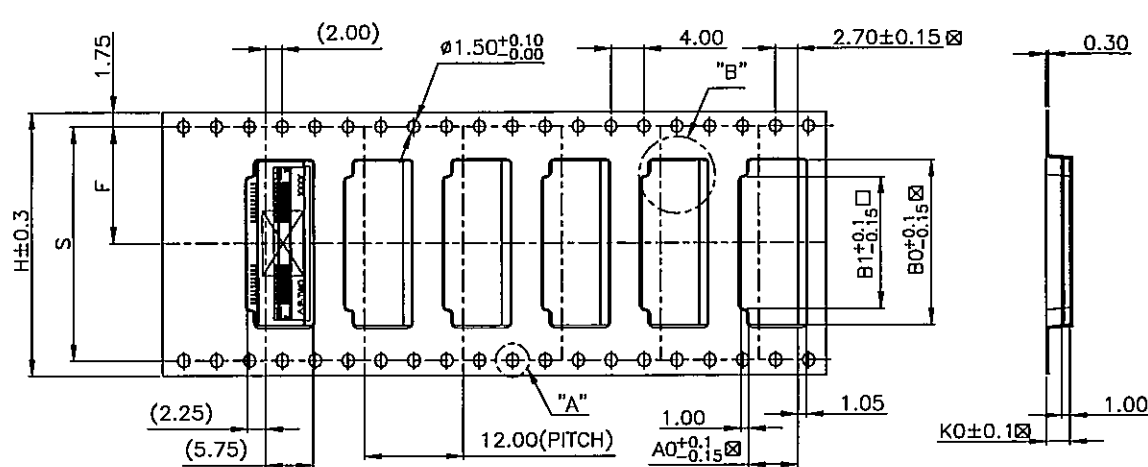
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△	(F.5)	NA180701	Claire	2018 08-14	TOLERANCES ARE	<i>[Signature]</i>	2021 01-19	FPC 0.5 EASY LOCK			
△	(A.2)	NC170804	Claire	2017 08-14	X.X ±0.15	CHECKED BY	DATE	H2.55 CARRIER			
△	(A.2)	NC161219	Sherry	2017 01-19	X.XX ±0.1	<i>[Signature]</i>	2021 01-19				
△	(D.5)	NA180903	Claire	2018 09-19	X.XXX ANG. ±0°30'	DRAWN BY	DATE	DOCUMENT NO	PAGE		
△	(D.5)	NA160505	KUAN	2016 05-26	ANG. ±0°30'	<i>Ann</i>	2021 01-19	JB96-04542	1		
SER	AREA	DESCRIPTION	CHK	DATE	UNIT	SIZE	DRAWING NO	REV	SHEET	SCALE	
					mm	A3	496542-XX0XX	H	2/4	1:5	



2.型腔成形R角不超過0.3mm

Pitch: 12mm		Number of Connectors: 1500 PCS/Reel						
NO. of Contacts(n)	A0	B0	B1	K0	S	F	H	Carrier Part No.
25	5.95	17.50	13.50	2.90	28.4	14.2	32	496542-32025-X
30		20.00	16.00		±0.1	±0.1		496542-32030-X

△		NA210114	Sherry	2021-1-19	UNLESS OTHERWISE SPECIFIED	APPROVED BY DATE	TITLE			
△		NA180701	Claire	2018-06-23	TOLERANCES ARE	<i>[Signature]</i>	FPC 0.5 EASY LOCK			
△	(A,2)	NC170804	Claire	2017-08-14	X.X ±0.15	CHECKED BY DATE	H2.55 CARRIER			
△	(A,2)	NC161219	Sherry	2017-01-09	X.XX ±0.1	<i>[Signature]</i>				
△		NA160903	Claire	2016-09-29	X.XXX ANG.	DRAWN BY DATE	DOCUMENT NO	PAGE		
					±0°30'	<i>Ann</i>	JB96-04542	1		
△		NA160505	KUAN	2016-05-26	UNIT	DRAWING NO	REV	SHEET	SCALE	
SER	ARFA	DESCRIPTION	CHK	DATE	UNIT 	A3	H	3/4	1:5	
						496542-XX0XX				



Connector+Carrier Tape Part Number:
196542-XXXX1-X
No. of Contacts
35~68PINS

NOTE:

1. PART NO. : 496542-XX0XX-X

CARRIER WIDE

NO. OF CKT

CARRIER LENGTH

1: CARRIER LENGTH 56M

2: CARRIER LENGTH 18.6M

△△ 5: CARRIER LENGTH 187M+塑膠盤包裝

2. 型腔成形R角不超過0.3mm

△△ Pitch: 12mm

Number of Connectors: 1500 PCS/Reel

NO. of Contacts(n)	A0	B0	B1	K0	S	F	H	Carrier Part No.
35	5.95	22.50	18.50	2.90	40.4 ±0.1	20.2 ±0.15	44	496542-44035-X
40		25.00	21.00					496542-44040-X
45		27.50	23.50					496542-44045-X
50		30.00	26.00					496542-44050-X
55		32.50	28.50		52.4 ±0.1	26.2 ±0.15	56	496542-44055-X
60		35.00	31.00					496542-56060-X
65		37.50	33.50					496542-56065-X
68		39.00	35.00					496542-56068-X
80		45.0	41.0					496542-56080-X

P-TWO INDUSTRIES INC.

△	NA210114	Sherry	2021-01-19	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE	APPROVED BY DATE	TITLE
△	NA180701	Claire	2018-07-03	X.X ±0.15	1/2/21	FPC 0.5 EASY LOCK
△	(A2) NC170804	Claire	2017-08-14	X.XX ±0.1	1/2/21	H2.55 CARRIER
△	(A2) NC161219	Sherry	2017-01-09	X.XXX	1/2/21	DOCUMENT NO
△	NA160903	Claire	2016-09-29	ANG. ±0°30'	1/2/21	JB96-04542
△	NA160505	KUAN	2016-05-26	UNIT mm	1/2/21	PAGE 1
SER	AREA	DESCRIPTION	CHK	DATE	SIZE A3	DRAWING NO 496542-XX0XX
						REV H
						SHEET 4/4
						SCALE 1.5:1

品質/環安政策

QUALITY/ENVIRONMENTAL SAFETY POLICIES

1. 顧客滿意守法規.

Satisfying customer & obeying the law and regulations.

2. 防汙減廢節能源.

Protecting pollution, reducing waste & saving energy.

3. 全員參與勤改善.

All the staff join in & improve frequently.

4. 以人為本保安全.

Taking person as foundation & keep safety .