WINSTAR 華凌光電(常熟)有限公司

CN/PN物料承認書

品號	CNQ6231XXXXXXXXXXX00	編 號	CN-08-007
廠商料號	P-NZ12-034-TF12-2-TZ	廠 商	讳诠

A. 規格及特性的判定:

序號	項目	標準	判定
1	尺寸:	长:23.60mm 宽:2.30mm 高:5.75mm	OK
2	接腳Type:	SMD	OK
3	外觀:	參考品管檢驗規範	OK
4	組裝測試:		OK

最終判定: ■OK

□NG 原因:

文件中心 2008. 3. 20 發行章

承認 2008. 3. 19 工程 華凌光電(常熟)有限公司

B、廠商承辦書(如附件一):

C、設計圖面 (如附件二):

日 期	版本	內 容
08. 03. 06	A	新制订

核准		審查		承辦

Represented by:
first FC components
FIRST Components srl Via Cavour 69, 21020 Buguggiate (VA)
T. +39 0332 1888005 web: www.first-components.com

CN/PN承認測試報告

	型號	CNQ6231XXXXXXXXXXX00				編號	CN-08-00
1	廠商	讳诠		廠商料號	P-NZ12-034-TF12-2-TZ		
2	送樣日期	2008.03.03	送樣數量	2	送樣次數	1	
3	尺寸	長:23.60mm 宽:2.30mm 高:5.75mm					
	項目	規格	樣品1	樣品2			
	1	17.61±0.15	17.62	17.64			
	2	23.6±0.20	23.65	23.63			
	3	4.3±0.20	4.33	4.35			
	4	1.05±0.15	1.02	1.04			
	5	23.2±0.20	23.19	23.22			
	6	21.6±0.20	21.62	21.60			
	7	16.5±0.20	16.55	16.52			
	8	0.2±0.05	0.21	0.22			
	9	2.3±0.2	2.32	2.31			
	10	2.0±0.2	2.03	2.01			
	11	3.5±0.2	3.51	3.54			
	12	0.5±0.05	0.51	0.52			
	判定:		OK	OK			

NG原因:

4 接腳Type SMD

5 環測:

1.所需物料:

2.環測條件:依電容或電阻的規格

3.測試儀器: 恆溫恆濕機

6 外觀檢測條件:

顏色: ■OK □NG 原因:

尺寸: ■OK □NG 原因:

外觀: ■OK □NG 原因: (參考品管的檢驗規範)

7 組裝測試條件:

使用的物料: 依據ERP中BOM

組裝測試結果 : □OK □NG 原因:

承認 2008.3.19 工程 (常熟)有限公司 文件中心 發行章

核准: 審查: 測試: 黎兵 測試時間: 2008.03.06

WINSTAR 華凌光電股份有限公司

零件規格書

材料名稱	CONNECTOR	編號	
公司料號	CN-NZ12-034-TF12-TZ#	日期	97.01.21
廠商料號	P-NZ12-034-TF12-2-TZ	廠商	諱銓

A、規格說明：

1.接腳 type：■ SMD □ DIP
2.焊接端 pin 數：34 ，Pitch：0.50 mm
3.接觸端 pin 數：34 ，Pitch：0.50 mm
4. ■ ZIF □ non-ZIF
5.接觸面：□ 朝上 ■ 朝下
6.Size：

NO	尺寸(mm)	判定	NO	尺寸(mm)	判定
1.	17.64	OK	7.	16.57	OK
2.	23.66	OK	8.	0.20	OK
3.	4.31	OK	9.	2.31	OK
4.	0.99	OK	10.	1.97	OK
5.	23.11	OK	11.	3.54	OK
6.	21.59	OK	12.	0.46	OK

華凌光電(常熟)有限公司 文件中心 2008.3.20 發行章

B、廠商規格書及無鉛報告 (如附件一)

承認 2008.3.19 工程 華凌光電(常熟)有限公司

華凌光電股份有限公司 發 97.1.23 行 技術文件專用章

總評及注意事項：

1.接腳 Type KEY IN 錯誤，故變更爲 A 版。

版別	A	承認	[illegible]	作成	潘立眞 1/21 08

流程：1.核准後→工程行政人員將正本交文管→文管影印後→正本存查文管中心。
2.文管發行單位：研發部、品保部、IQC、常熟；如有舊版則須回收作業。

ER-005-01

HUEY-CHYUAN
諱銓科技有限公司
HUEY-CHYUAN TECHNOLOGY CO.,LTD
http://www.huey-chyuan.com.tw
E-mail:hc0219@ms57.hinet.net

電腦\電子連接器線材\端子加工・輕觸開關・通訊產品 CONNECTORS・ 系列產品

承認書
APPROVAL SHEET

華凌光電股份有限公司

日期 DATE 2007 年 11 月 19 日

料號 PART NO. P-NZ12-XXX-TF12-2-TZ

品名 MODEL FPC 0.5 ZIF SMD 下接式 90 度 系列承認

規格 DESCRIPTION

客戶料號 CUSTOMER P/NO. CN-NZ12-044-TF12-TZ#

承認號碼 FILE NO.

經理	課長	股長	經辦

台中市北區忠明路432號3F-2
3F-2 NO.432 Chang-Ming Rd., Taichung, Taiwan, R.O.C.
TEL:886-4-2205-9121 FAX:886-4-2206-5416

THIS SPECIFICATION COVERS THE ZIF FFC/FPC SERIES CONNECTOR , SMT HORIZONTAL UPPPER / LOWER CONTACT TYPE , SMT VERTICAL NORMAL / REVERSE CONTACT TYPE.

2. PART NUMBER AND PRODUCT NAME

Part number	Product Name
F5X-XXX-XXXX-X	ZIF FFC/FPC CONNETOR SERIES. SMT HORIZONTAL TYPE & VERTICAL TYPE.

3. ELECTRICAL PERFORMANCE

Item	Requirement	Test Condition
Rated voltage (MAX)	50V(AC/DC)	Ambient Temperature Range
Rated current (MAX)	0.5A(AC/DC)	−40℃~+85℃
Contact resistance	20 m Ω (MAX.)	Mate applicable FPC and measure by dry circuit 20mV MAX , 10mA. (MIL-STD-1344A METHOD 3004.1)
Insulation resistance	50MΩ (MIN.)	Mate applicable FPC and apply 500V DC between adjacent terminal or ground. (MIL-STD-1344A METHOD 3003.1)
Dielectric strength	250V AC No breakdown	Mate applicable FPC and apply 250V AC (rms) for 1 minute between adjacent terminal or ground (MIL-STD-1344A METHOD 3001.1)

4. MECHANICAL PERFORMANCE

Item	Requirement	Test Condition
FPC Retention Force	Per pin 0.3N（0.03kgf）MIN.	Insert the actuator, pull the FPC at the speed rate 25±3 ㎜/minute. (MIL-STD-1344A METHOD 2012.1.)
Durability Repeated insertion／withdrawal	Contact resistance 40mΩ MAX	Insert and withdraw up to 20 cycles at the speed rate of less than 10 cycles/minute (MIL-STD-1344A METHOD 2016.)
Vibration	Discontinut ：1 microsecond MAX. No damage	Amplitude：1.5mm P-P. Sweep time：10-55-10 Hz/1min. Duration：2 hrs/axis (MIL-STD-202F METHOD 201.)
Shock	Discontinut ：1 microsecond MAX. No damage	(50G), 3 strokes in each X.Y.Z. axes. (MIL-STD-202F METHOD 213.)

5. ENVIRONMENTAL PERFORMANCE

Item	Requirement	Test Condition
Heat resistance	Appearance：No Damage Contact Resistance：40mΩMAX	85±2℃，96hours. (MIL-STD-202F METHOD 108.)
Humidity	Appearance：No Damage Contact Resistance：40mΩMAX	Temperature：60±2℃ Relative humidity：90~95% Duration：96hours (MIL-STD-202F METHOD 103.)
Salt spray	Appearance：No Damage Contact Resistance：40mΩMAX	48 hours exposure to a salt spray form the 5±1% solution at 35±2℃ (MIL-STD-1344A METHOD 1001.)

6. RELIABILITY PERFORMANCE

Item	Requirement	Test Condition
Solder ability	Solder wetting：90% of immersed area must show no voids pin holes	Soldering Time：3±0.5sec Solder temperature：230±5℃ 0.2 ㎜ from terminal tip 0.2 ㎜ from fitting nail tip

7. PRODUCT SHAPE DIMENSIONS AND MATERIALS

Refer to the drawing

2020-06-03 13:33:51
鄭雅菁[Doris], 台中廠國外業務部歐洲課副課 (w060007)

更改 REV.	修改內容 MODIFICATION	修改 DRAWN	核准 APPROVED

ORDERING CODE

F 5 1 - X X X - X 2 2 X - 1

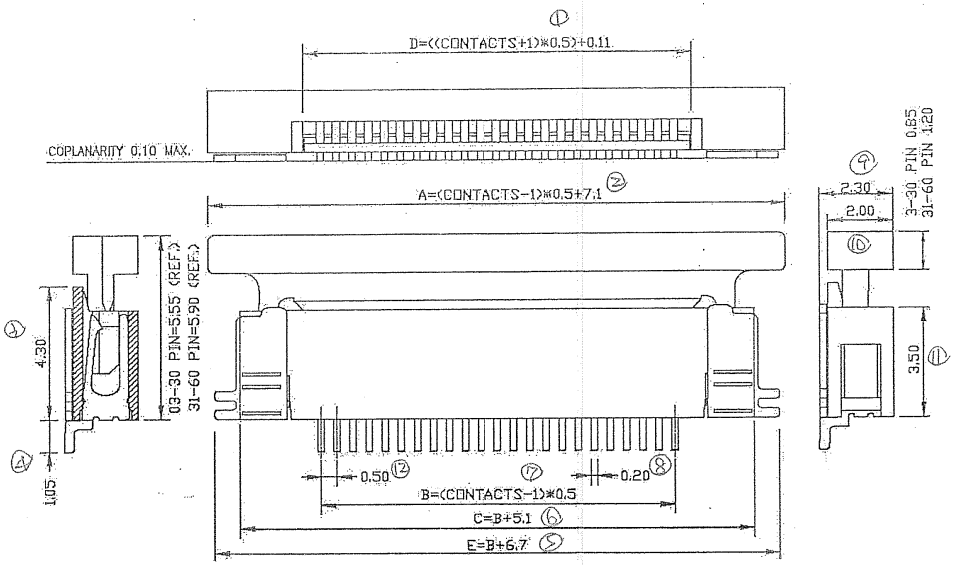
- FFC\FPC
- PITCH 0.5mm
- HORIZONTAL
- CONTACT TYPE
  - 2:LOWER CONTACT
- NO. OF CONTACTS
  - 03-60 PIN
- HOUSING & ACTUATOR MATERIALS
  - 5:HOUSING PA-46, ACTUATOR PPS (BLACK)UL 94V-0
  - 6:HOUSING PA-46, ACTUATOR PPS (BROWN)UL 94V-0
- TAIL LENGTH
  - 2:TAIL LENGTH 1.05mm.
- HOLDDOWN TYPE
  - 2:HOLDDOWN TYPE 2.
- PACKING TYPE
  - 1:TUBE
  - 2:REEL
- PLANTING
  - 1: 100u" TIN

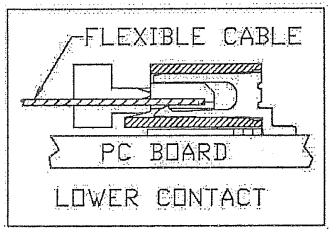
FEATURE AND SPECIFICATIONS

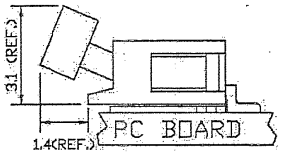
SIZES 03 TO 60 PIN.
FOR 0.3mm THICKNESS FFC/FPC.
VOLTAGE:50V MAX.
CURRENT:0.5A MAX.
CONTACT RESISTANCE:20 milliohms MAX.
INSULATION RESISTANCE:50 Megohms MIN.
DIELECTRIC WITHSTANDING VOLTAGE:250V AC.
TEMPERATURE:-40°C TO 85°C

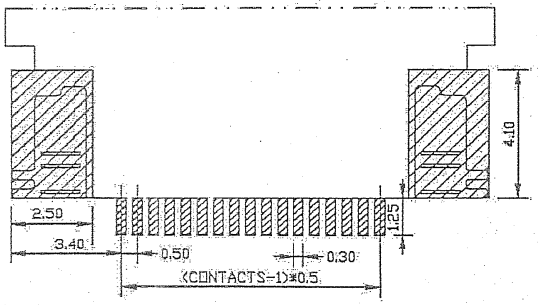
MATERIAL AND FINISH

HOUSING:HIGH-TEMP. THERMOPLASTIC. UL 94V-0.
ACTUATOR:HIGH-TEMP. THERMOPLASTIC. UL 94V-0.
CONTACT:100u" TIN
HOLDDOWN:BRASS. PLATING:TIN

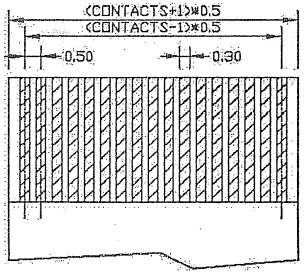








RECOMMENDED PCB LAYOUT



FFC/FPC DIMENSION
THICKNESS 0.30 mm

.X±0.20	.X±	單位MM	料號 F51-2XX-X22X-1	譁銓科技有限公司	
.XX±0.15	.XX±	材質		名稱 TITLE	ZIF FPC 0.5mm SMT CONN. HORIZONTAL LOWER CONTACT TYPE
.XXX±0.10	.XXX±	處理	日期 2002.12.13	圖號 DWG NO.	F51-2XX-X22X-1
		數量	審核	SCALE 5:1	SHEET 1/2 REV. A
			製圖 CAVIN		

first FC components
- FIRST Components s.r.l. Via Cavour, 69 21020 Buguggiate (VA) Italy Tel. +39 0332 1888005 Fax +39 0332 320856
web: www.first-components.com

Title Block.Lifecycle Phase:Approval
Title Block.品號(Number):CNQ6231XXXXXXXXXXXX0002

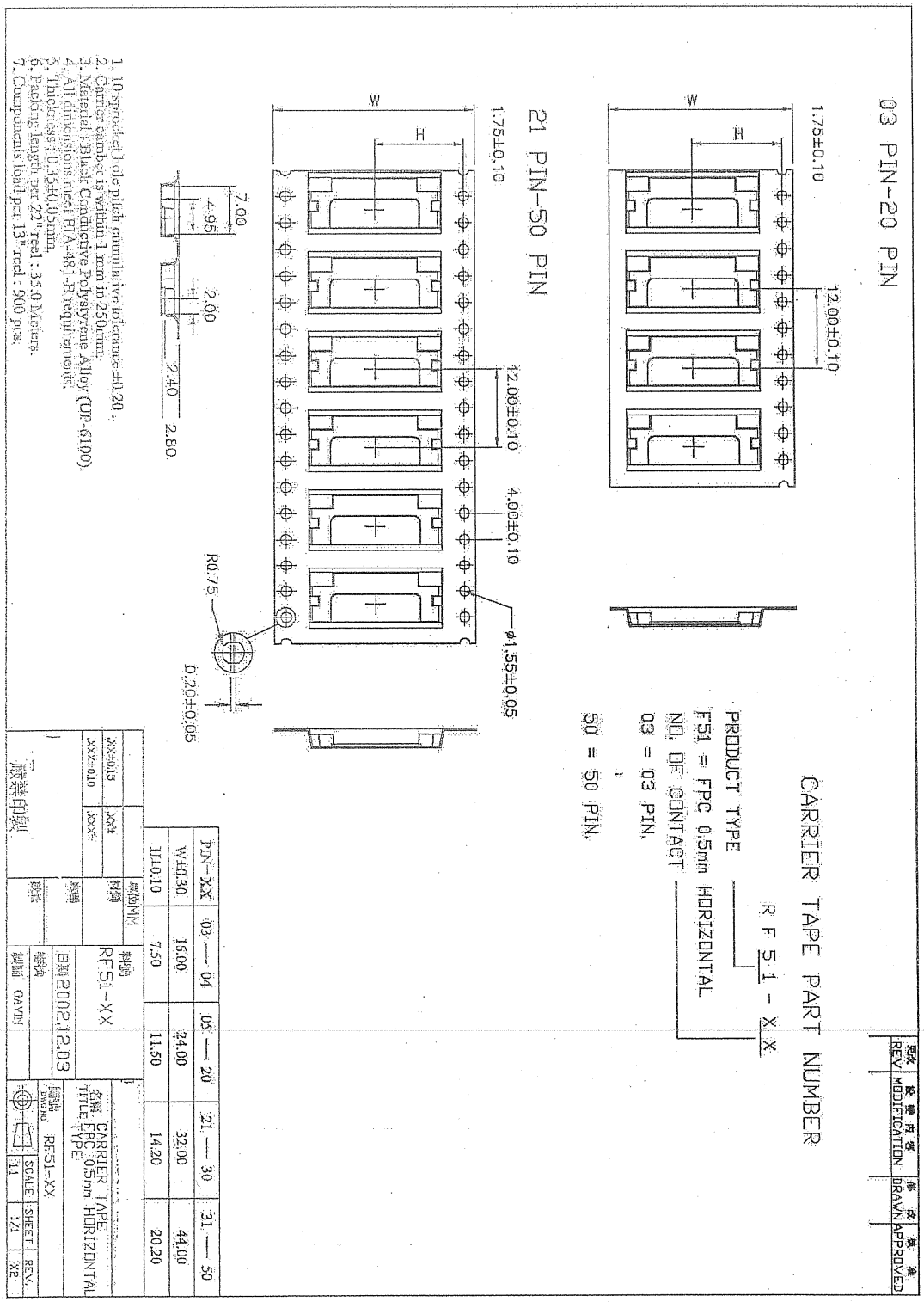
PIN	A	B	C	D	E
3	8.10	1.00	6.10	2.11	7.70
4	8.60	1.50	6.60	2.61	8.20
5	9.10	2.00	7.10	3.11	8.70
6	9.60	2.50	7.60	3.61	9.20
7	10.10	3.00	8.10	4.11	9.70
8	10.60	3.50	8.60	4.61	10.20
9	11.10	4.00	9.10	5.11	10.70
10	11.60	4.50	9.60	5.61	11.20
11	12.10	5.00	10.10	6.11	11.70
12	12.60	5.50	10.60	6.61	12.20
13	13.10	6.00	11.10	7.11	12.70
14	13.60	6.50	11.60	7.61	13.20
15	14.10	7.00	12.10	8.11	13.70
16	14.60	7.50	12.60	8.61	14.20
17	15.10	8.00	13.10	9.11	14.70
18	15.60	8.50	13.60	9.61	15.20
19	16.10	9.00	14.10	10.11	15.70
20	16.60	9.50	14.60	10.61	16.20
21	17.10	10.00	15.10	11.11	16.70
22	17.60	10.50	15.60	11.61	17.20
23	18.10	11.00	16.10	12.11	17.70
24	18.60	11.50	16.60	12.61	18.20
25	19.10	12.00	17.10	13.11	18.70
26	19.60	12.50	17.60	13.61	19.20
27	20.10	13.00	18.10	14.11	19.70
28	20.60	13.50	18.60	14.61	20.20
29	21.10	14.00	19.10	15.11	20.70
30	21.60	14.50	19.60	15.61	21.20
31	22.10	15.00	20.10	16.11	21.70

PIN	A	B	C	D	E
32	22.60	15.50	20.60	16.61	22.20
33	23.10	16.00	21.10	17.11	22.70
34	23.60	16.50	21.60	17.61	23.20
35	24.10	17.00	22.10	18.11	23.70
36	24.60	17.50	22.60	18.61	24.20
37	25.10	18.00	23.10	19.11	24.70
38	25.60	18.50	23.60	19.61	25.20
39	26.10	19.00	24.10	20.11	25.70
40	26.60	19.50	24.60	20.61	26.20
41	27.10	20.00	25.10	21.11	26.70
42	27.60	20.50	25.60	21.61	27.20
43	28.10	21.00	26.10	22.11	27.70
44	28.60	21.50	26.60	22.61	28.20
45	29.10	22.00	27.10	23.11	28.70
46	29.60	22.50	27.60	23.61	29.20
47	30.10	23.00	28.10	24.11	29.70
48	30.60	23.50	28.60	24.61	30.20
49	31.10	24.00	29.10	25.11	30.70
50	31.60	24.50	29.60	25.61	31.20
51	32.10	25.00	30.10	26.11	31.70
52	32.60	25.50	30.60	26.61	32.20
53	33.10	26.00	31.10	27.11	32.70
54	33.60	26.50	31.60	27.61	33.20
55	34.10	27.00	32.10	28.11	33.70
56	34.60	27.50	32.60	28.61	34.20
57	35.10	28.00	33.10	29.11	34.70
58	35.60	28.50	33.60	29.61	35.20
59	36.10	29.00	34.10	30.11	35.70
60	36.60	29.50	34.60	30.61	36.20

更改 REV.	修改內容 MODIFICATION	審核 DRAWN	核准 APPROVED

名稱 TITLE	ZIF FPC 0.5mm SMT CONN. HORIZONTAL LOVER CONTACT TYPE		
圖號 DWG NO.	F51-2XX-X22X-1	SCALE 5:1	SHEET 2/2
			REV. A

X±0.20	2位	單位MM	材料
XX±0.15	XX位	材料	F51-2XX-X22X-1
XXX±0.10	XXX位	處理	日期2002.12.13
嚴禁印製		表面	警務
		製圖	GAYUN


03 PIN-20 PIN
21 PIN-50 PIN
CARRIER TAPE PART NUMBER
PRODUCT TYPE
RF51 = FPC 0.5mm HORIZONTAL
NO. OF CONTACT
03 = 03 PIN,
50 = 50 PIN.
1.75±0.10
12.00±0.10
4.00±0.10
ø1.55±0.05
R0.75
0.20±0.05
7.00
4.95
2.00
2.40
2.80
W
H
1. 10 sprocket hole pitch cumulative tolerance ±0.20 .
2. Carrier camber is within 1 mm in 250mm.
3. Material : Black Conductive Polystyrene Alloy (UP-6100).
4. All dimensions meet EIA-481-B requirements.
5. Thickness : 0.3±0.05mm.
6. Packing length per 22" reel : 35.0 Meters.
7. Components total per 13" reel : 900 pcs.
REV. MODIFICATION DRAWN APPROVED
PIN=XX
W±0.30
H±0.10
03 — 04
05 — 20
21 — 30
31 — 50
16.00
24.00
32.00
44.00
7.50
11.50
14.20
20.20
RF51-XX
2002.12.03
GAVIN
CARRIER TAPE FPC 0.5mm HORIZONTAL
RF51-XX
SCALE 1/1
SHEET 1/1
REV. X2

材質証明

品名 :HOUSING 材質 : NYLON PA-46, UL94V-0.

Datasheet TE250F9 - 00001

45% GF reinforced, flame retardant, grade for E/E applications

Typical properties	Unit	ISO/IEC	DIN	Grade TE250F9
General properties				
Density	g/cm³	ISO 1183	53479	1,82
Melting temperature	℃	ISO 3146		295
Temperature properties				
HDT-A (1,8 MPa)	℃	ISO 75-1	53461	260
Peak temperature (1min.)	℃	UL 746B		-
Continuous use temperature	℃	IEC 60216		
- 5000 hrs				163
Coeff. linear thermal expansion	E-4/K	DIN 53752		
- // (23-55℃)				0,2
- ⊥ (23-55℃)				0,6
Electrical properties				
RTI electrical	℃ ,mm	UL 746B		-
Insulation class	-	UL 1446		-
Flammability (at thickness)	class(mm)	UL 94		V-0 (0,8)
Comparative tracking index (CTI)	PLC	IEC 60112		2
Electric strength	kV/mm	IEC 60243-1		
- dry (23℃)				30
- con (23℃/50%RH)				20
Volume resistivity	Ohm.cm	IEC 60093		
- dry (23℃)				1E+15
- con (23℃/50%RH)				1E+10
Mechanical properties				
Izod impact strength (notched)	kJ/m²	ISO 180-1A		
- dry (23℃)				13
- con (23℃/50%RH)				15
Tensile strength	MPa	ISO 527-1	53455	
- dry (23℃)				200
- con (23℃/50%RH)				130
Tensile Modulus	MPa	ISO 527-1	53457	
- dry (23℃)				17000
- con (23℃/50%RH)				12000
Strain at break	%	ISO 527-1	53455	
- dry (23℃)				2
- con (23℃/50%RH)				3
Dimensional properties				
Moulding shrinkage	%	DSM		
- //				0,3
- ⊥				0,9
Humidity absorption (equi. 23 °C/50%RH)	%	ISO 62		1,2

Data sheet prepared by the Engineering Plastics department of DSM Engineering Plastics B.V. The information and recommendations are based on laboratory work and practical experience of DSM Engineering Plastics B.V. in the testing and processing of its own products. They are believed to be reliable. However, no warranty, guarantee or representation is made as to the correctness or sufficiency of the information or recommendations. No liability is accepted with respect to the use of any such information or recommendation or the suitability of any product for any specific application. It is the responsibility of the customer to determine the suitability for the intended use and the completeness of any such information or recommendation in each case. Nothing in this publication is to be considered as a license to operate or to recommend the infringement of any patent or other intellectual property right.

DSM 9701/2.0

材質証明

品名 :HOUSING 材質 : NYLON PA-46, UL94V-0.

QMFZ2 Component - Plastics Tuesday, July 10, 2001 E119177

DSM ENGINEERING PLASTICS B.V.
STANYL PRODUCTS POSTBUS 604 6160 AP GELEEN NETHERLANDS

Material Designation: TE250F9(h)(j)

Product Description: Polyamide 4/6 (PA4/6), glass reinforced, flame retardant, designated "Stanyl" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.75	V-0	0	0	140	110	120	-	-
	1.5	V-0	0	0	140	125	125	-	-
	3.0	V-0	0	0	140	130	130	-	-

CTI: 2 HVTR: 0 D495: 7 IEC PI: -

(h) Virgin and regrind, from 1% to 50% by weight inclusive, have the same basic material characteristics.

(j) Virgin and regrind, from 1% to 100% by weight inclusive, have the same basic material characteristics with respect to flammability

Report Date: 03/17/2000 Underwriters Laboratories Inc® 7593210005

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in components and parts of end-product devices and appliances, where the acceptability of the combination is determined by ULI.

材質証明

品名:ACTUATOR 材質:PPS UL94V-0.

P O L Y P L A S T I C S C O . , L T D.
KASUMIGASEKI BLDG. (67TH FL)
2-5, KASUMIGASEKI 3-CHOME
CHIYODA-KU, TOKYO, 100 JAPAN

TO WHOM IT MAY CONCERN

CERTIFICATE OF ANALYSIS

WE HEREBY CERTIFY THAT THE UNDERMENTIONED LOT WAS DULY INSPECTED AND PASSED BY OUR QUALITY CONTROL DEPARTMENT.

COMMODITY : Polyphenylene Sulfide
Fortron
GRADE;COLOR NO. : 1140A6 NF2000

LOT NO : 24F1364

VOLUME : 1580.00 kg

ITEMS	UNIT	VALUE	SPECIFICATION
Tensile Strength	MPa	215	
Tensile Elongation	%	2.1	
MELT VISCOSITY	PA·S	268	

POLYPLASTICS CO., LTD.

SHINYU SHINTANI
MANAGER
ORDER FULFILLMENT CENTER [OVERSEAS]
LOGISTIC CENTER PRODUCTION DIVISION

材質証明

品名 :CONTACT 材質 : PHOSPHOR BRONZE

新菱精密工業股份有限公司
SHIN LING PRECISION INDUSTRIES CO., LTD.
68, Lane 358, Sec. 3, Jhongshan Rd., Tanzih Dist., Taichung City 427, Taiwan (R.O.C.)
TEL: 886-4-2536-1111 FAX: 886-4-2534-1165

INSPECTION CERTIFICATE

Customer:
Specification: C5191R-H Jis H3110(C5191)
Our Order No:
Your P/O No:
Your Part No:
Date: 23 May 02
Weight: 0.0 Kg

Lot No.	Standard Dimension	Property Test Yield strength (Kgf/mm²)	Tensile strength (Kgf/mm²)	Young's modulus (Kgf/mm²)	Elongation (%)	Hardness (Hv)	Conductivity (%IACS)	Bend Test (180°)	Grain Size (mm)
STD-9006135	0.200*390	-	57.9	11035	≥ 10	190 ~ 210	-	-	≤ 0.015
			60.5		23	193 ~ 196	14.00	Good	0.012

Standard Lot No.	Composition (wt%) Cu	Sn	P	Zn	Fe	Pb	Surface Roughness Ra(/um)	Dimension Thickness (mm)	Width (mm)
	余	5.5000~7.0000	0.0300~0.3500	-	-	-	≤ 0.1500	0.192~0.208	388.80~390.20
STD-9006135	94.6772	5.7999	0.0958	0.0182	0.0090	0.0038	0.075	0.197	390.00

Remark: 1. Mechanical properties shall be determined in accordance with ASTM E8 · ISO 6892 ·
2. Conductivity shall be determined in accordance with ISO 1337 ·

Approved by:

Checked by:

材質証明

品名：HOLDDOWN　　材質：BRASS

(L) 華源銅線工業股份有限公司　品質檢查　證明書

客戶名稱		型號	訂單號碼	出貨日期	出貨批號
			W1D166074	2002/6/12	SK0106612-AA
規格名稱	C2680-H 0.20mm×15.5mm	交貨日期 2002/6/12	發票號碼 04547105	發票日期 2002/6/12	客戶品號 HOLDDOWN

項目 No.	熱處理批號	外徑 mm	寬度 mm	硬度 HV	包裝 QTY	重量 Kg	抗拉強度 Kgf/mm²	伸長率 %
1	2A11457	0.200	15.50	159	3	140.0	49.9	11
規格	以下空白							GOOD

項目 No.	牌號	成分 %									備註
		CU	Zn	Pb	Fe	Sn	Ni	As	Sb	P	
1	C2680-H	67.000	*	0.0082	0.0149	0.0095	*	-	-	0.0024	
	以下空白										

檢驗　　包裝　　出貨