APPROVAL SHEET

認

書

Customer

客戶名稱: Kuk Jae Tele Parts Co., Ltd

承

Description:

產品描述 D-SUB Female High Density Straight Dip Machine Pin Type

Part No.: 客戶編號:

Part No ·

 Part No.:

 繼德編號:
 5512-62SA-01-F1

 Date 日 期:
 Jan-27-2007

 Rev. 版 次:
 A

經辦(Evaluted)	倖(Evaluted) 審核(Checked)		客戶承認(Approval)
Huali	Jeremy Liu	Mike Wu	

WEL:Recognized NO.E 144392
 機徳工業股份有限公司
 Neltron Industrial Co., Ltd.

Head Office

臺北市士林區承德路四段 184 號 2 樓 2F, 184, Chang – Teh Road, Sec. 4, Shih-Lin, Taipei, Taiwan, R.O.C. TEL:886-2-28802631(10 Lines) FAX:886-2-28802710 · 28802888 http://www.neltron.com.tw E-mail : neltron@neltron.com.tw China Factory 中國廣東省東莞市塘廈鎭科苑城橫田二路一號 Science Service Plaza ,1,Hengtian Second Road ,

Tangxia Town Dongguan City .Guangdong Province ,China



Bill of Approval Sheet

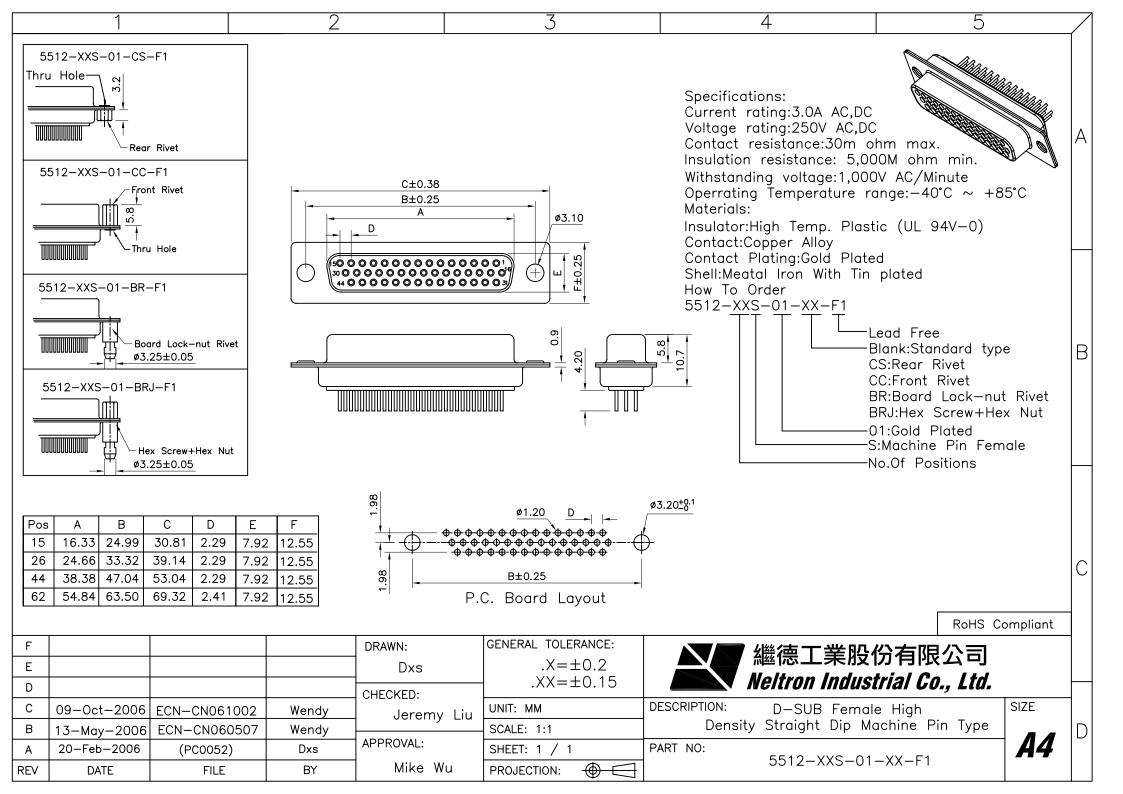
Product Description:	D-SUB Female High Density Straight Dip Machine Pin Type
i loadet Desemption.	

Product Part NO.: 551

5512-62SA-01-F1

Date: Jan-27-2007

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PRODUCT SPECIFICATION

1.Scope

This specification covers the D-SUB Female High Density Straight Dip Machine Pin Type

2.Product name and part number

Product Name		Part Number			
D-SUB Female High	Density Straight Dip Mac	chine Pin Type	5512-62SA-01-F1		
3.Material/Finish		L. L.			
Name	Material	Finish	Color		
Plastic	PBT (UL94V-0)				
Terminal	Copper Alloy	Gold Plating			
Shell	Metal Lron	Tin Plated			
Other					

*Refer to the drawing.

3 Rating

J.Raing					
Item	Standard				
Rated Voltage	250 M				
(MAX.)	250 V				
Rated Current	2.0.4	- AC/DC			
(MAX.)	3.0 A				
Ambient	-40°C∼+85°C				
Temperature Range					

*1:Including terminal temperature rise.

4. Component Storage/Shelf Life Info:

Max. duration of storage:	6	months
Packaging method:pcs/tray;	pcs/ca	rton
Recommended storage condition:	<u></u> °C (tem	$(p) \& :75 \\%$
RH (humidity)		
Other special storage instruction	:	

5.Performance 5-1.Electrical Performance

Item		Test Condition	Requirement
5-1-1	Contact Resistance Mate applicable the D-SUB Female High Density Dip Machine Pin Type and measure by Dry circui		$30 \text{ m}\Omega$ Max
		MAX.10Ma.	
5-1-2	Insulation Resistance	Mate applicable the D-SUB Female High Density Straight Dip Machine Pin Type and apply1000V DC Between adjacent terminal or ground.	5000M Ω Min



	5-1-3	Dielectric	Mate applicable the D-SUB Female High Density Straight		
			Dip Machine Pin Type and apply 1000V AC (rms) for 1	No Breakdown	
		Suchgui	minute between adjacent terminal or ground.		

5-2 Mechanical Performance

Item		Test Condition	Requirement	
5-2-1	Insertion and Withdrawal Force	Insert and extract applicable the D-SUB Female High Density Straight Dip Machine Pin Type at the speed rate of 100±3mm/minute	Referred to	
5-2-2	Terminal Retention Force	Pull the terminal at the speed Rate of 100±3mm per minute.	0.2 kgf Min	

5-3, Environmental Performance and Others

Item	Test Condition	Requirement		
5-3-1	Repeated Insertion Extraction	Insert and extract applicable the D-SUB Female High Density Straight Dip Machine Pin Type up to 10 cycles per minute.	Contact Resistance	$30 \mathrm{m}\Omega$ Max
5-3-2	Temperature Rise	Carrying rated current load. (UL 498)	Temperature rise	30 °C MAX.
		Amplitude:1.5mm P-P	Appearance	No Damage
5-3-3	Vibration	Sweep time:10-55-10 Hz In 1 minute	Contact Resistance	$30 \text{ m}\Omega$ Max
		Duration: 2 hours in each X.Y.Z.axes	Dis- Continuity	$\begin{array}{c} 1 \ \mu \text{ sec.} \\ \text{MAX.} \end{array}$
		$\frac{490 \text{m/S}^2(50\text{G}),3 \text{ strokes in each X, Y, Z}}{2000}$		No Damage
5-3-4	Shock	axes. (JIS C0041/MIL-STD-202 Method 213)	Dis- Continuity	1μ sec. MAX.
	Heat Resistance		Appearance	No Damage
5-3-5		$85\pm2^{\circ}C$ 96 hours	Contact Resistance	$30 \text{ m}\Omega$ Max
	Cold		Appearance	No Damage
5-3-6	Resistance	$-40\pm2^{\circ}C$ 96 hours	Contact Resistance	$30 \text{ m}\Omega$ Max
			Appearance	No Damage
		Humidity Temperature: 40±2°C Relative Humidity:90~95% Duration: 96hours		$30 \text{ m}\Omega$ Max
5-3-7	Humidity			Must meet 5-1-3
			Insulation Resistance	5000M Ω Min
	Tomporatura	5 cycles of:	Appearance	No Damage
5-3-8	Temperature Cycling	a)- 55 ± 3 °C 30 minutes b)+ 85 ± 2 °C 30 minutes	Contact Resistance	$30 \text{ m}\Omega$ Max



		12±4 hours exposure to a salt	Appearance	No Damage
5-3-9	Salt Spray	spray from the 5 \pm 1% solution at 35 \pm 2°C	Contact Resistance	$30 \text{ m}\Omega$ Max
5-3-10	SO ₂ Gas	24 hours exposure to 50 \pm 5ppm. SO ₂ Gas at 40 \pm 2°C	Contact Resistance	$30 \text{ m}\Omega$ Max
5 3 11		40 minutes exposure to NH ₃ Gas evaporating from 28%	Appearance	No Damage
5-3-11	NH ₃ Gas	Ammonia solution	Contact Resistance	$30 \text{ m}\Omega$ Max
5-3-12	Solder- Ability	Solder Time:3±0.5 sec. Solder Temperature:220±5℃ 1.2mm from terminal tip	Solder Wetting	95% of immersed area must show no voids, pin holes
5-3-13	Resistance To Soldering Heat	Soldering Time:5±0.5 sec. Solder Temperature:220±5°C 1.2mm from terminal tip	Appearance	No Damage
5-3-14	soldering 5-3-14-2Wave-sold ering	Solder temp: $400\pm5^{\circ}C$ Time: $10\pm 3 \sec$ Soldering temp : $220\pm5^{\circ}C$ Soldering time : $5\pm0.5 s$ Perform visual inspection, (item1), No pl Color change and tarnishing is allow characteristics (item2) and Mechanical char 3) after the soldering test	Supplier to provide measured data into the Table 1.	

QMFZ2 Component - Plastics

CHANG CHUN PLASTICS CO LTD 7TH FL 301 SONGKIANG RD TAIPEI TW

Material Designation: **PBT-4130 (a)**

Product Description: Polybutylene Terephthalate (PBT), glass reinforced, designated "LONGLITE" furnished as pellets.

Color	Min. Thick. (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str	IEC GWIT	IEC GWFI
ALL	0.74	V-0	4	0	120	120	140	-	-
	1.5	V-0	3	0	120	120	140	-	-
	3.0	V-0	2	0	120	120	140	-	-
CTI: 2 IEC CTI: -		HVTR: 4 D495: 7					IEC Ball Pressure (°C): 210		
Dielectric Strength (kV/mm): 28 ISO Tensile Strength (MPa): -		Volume Resistivity (10 ^x ohm-cm): 14 ISO Flexural Strength (MPa): - ISO Izod Impact (kJ/m ²): -			Ļ	Dimensional Stability(%): - ISO Heat Deflection (°C): -			
ISO Tensile Impact (kJ/m ²): -		ISO Izo	d Impa	ct (kJ/r	n²): -			ISO Charpy Impa	act (kJ/m²): -

(a) Ball pressure temperature of 210 C in accordance with IEC.695.10.2 and IEC 950.5.4.10

Report Date: 9/1/1987

Underwriters Laboratories Inc®

UL94 small-scale test data does not pertain to building materials, furnishings and related contents. UL 94 smallscale 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.

扱先同用 MESSRS. 製品名C51 PRODUCTS 寸法0.2 SIZE 規格 SPECIFICATION 化学成	91R-1 25 X	H (190-			DATE O 納品 DELIVE 注文 CONTRA	一番号	5716	年03月2 6 0303	88	MANAGE	名 保証書 R OF QUALIT NCE SECTION	Y	Himksk	Tatana bie
CHENICAL CO		5										-		
規格 SPECIFICATION	Zn %	Sn %	P %	Fe %	Pb %	Cu+Sn+P %								質量 MASS
製造番号 MIN		5.5	0.05			99.7					1			(KG)
LOT NO. MAX	0.20	7.0	0.26	0.10	0.05									
62512	0.01	5.99	0.12	0.003	0.002	99.96								5,136.00
機械的 MECHANICAL 規格	AND PHYSIC		IES					•					寸法検査	GOOD
規格 SPECIFICATION	TENSILE STRENGTH	ELONGATION	HARDNESS	'								· · ·	DIMENSIONAL INSPECTIONS	
and and and	N/mm	%	HV										外観検査 SURFACE	GOOD
製造番号 M1N LOT NO. MAX		8.0	190 210									,	INSPECTIONS	
62512	615	17.6	203.0										備考 REMARKS.	
					-									
													1	
							10							

この製品は品質管理計画に基づき製造され、検査・試験を行ない、規格に合格したことを証明する。 WE HEREBY CERTIFY THAT THE PRODUCTS DESCRIBED HEREIN HAVE BEEN MANUFACTURED, INSPECTED AND TESTED IN ACCORDANCE WITH THE SPECIFICATION AND Q.C. PROGRAM.

16 Au/Ni/P-Bronze				(U")07	7/11 STD	d Coll.	2 A	Abs.	1
				THIC	KNESS MEA	SUREMENT			
MEAN TOP COAT		=	1.06u"						
STD, DEVIATION		=	0.176u"						
NO. OF MEAS.		=	10						
MEAN INT COAT		=	54.321u"						
STD, DEVIATION		=	3.454u"						
NO. OF MEAS.		=	10						
							Au		Ni
T meas		=	10 s	N=	1	THICKNESS	=1.08u	=	52.59u"
LOCATE SPECIMEN				N=	2	THICKNESS	=1.01u	=	54.39u"
TO MEASURE	PRESS	"	GO "	N=	3	THICKNESS	=1.05u	=	53.54u"
				N=	4	THICKNESS	=1.06u	=	55.96u"
Xt1=0.009	Xn=		0.079	N=	5	THICKNESS	=1.04u	=	53.12u"
								20	006/10/13

UL Online Certifications Directory

ECBT2.E144392

Connectors for Use in Data, Signal, Control and Power Applications

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Connectors for Use in Data, Signal, Control and Power Applications

See General Information for Connectors for Use in Data, Signal, Control and Power Applications

NELTRON INDUSTRIAL CO LTD

E144392

2ND FL 184 CHENG-TEH RD, SEC 4 SHIH-LIN, TAIPEI 111 TAIWAN

Wire to board connectors, Cat. Nos. 1310, 1311, 5289H followed by -02 through -15; Cat. Nos. 8982H, 8980H, 8981H followed by -04; Cat. Nos. 2317RB, 2317RJ, 2317SB, 2317SJ, 2318HB, 2318HJ, 2417RJ, 2417SJ, 2418HJ followed by -02 through -15; Cat. No. 2226A followed by -01 through -40; Cat. No. 2226B followed by -02 through -80; Cat. No. 2221 followed by -06, -12; Cat. No. 2222 followed by -06; Cat. No. 2220 followed by -02 through -16; Cat. Nos. 2217R, 2217S, 2219R, 2219S followed by -02 through -15; Cat. No. 2218H followed by -01 through -15; Cat. No. 2026A followed by -01 through -40; Cat. No. 2026B followed by -02 through -15; Cat. No. 2218H followed by -01 through -15; Cat. No. 2026A followed by -01 through -40; Cat. No. 2026B followed by -02 through -80; Cat. No. 4201 followed by -44; Cat. No. 4401 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4402 followed by -10, -14, -16, -20, -26, -34, -40, -44, -50, -64; Cat. No. 4403 followed by -10, -14, -16, -20, -26, -34, -40, -44, -50, -64; Cat. No. 4406 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4406 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4406 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4406 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4406 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4406 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4406 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4406 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4405 followed by -10, -14, -16, -20, -24, -26, -30, -34, -40, -50, -64; Cat. No. 4501 followed by -20, -26, -32, -34, -40, -50, -52, -60, -68, -80, -100; Cat. No. 1200 followed by -03 through -09; Cat. No. 1005 followed by -50, -100.

P.C.B connectors, Cat. No. 2162 followed by -16, -18, -20, -24; Cat. No. 2227 followed by -08, -14, -16, -18, -20, -24, -28, -40; Cat. No. 6605 followed by -72; Cat. No. 6602 followed by -30, -60; Cat. Nos. 1007, 1008 followed by -14, -20, -26, -30, -40, -50, -60, -68, -80, -100; Cat. No. 6601 followed by -20, -28, -32, -44, -52, -68, -84; Cat. No. 6603 followed by -68, -84, -85, -114, -121, -132; Cat. No. 1201 followed by -03 through -08; Cat. No. 1202 followed by -05; Cat. No. 2416S followed by -20, -26, -32, -34, -40, -50, -52, -60, -68, -80, -100; Cat. Nos. 2216R, 2216S followed by -10, -12, -14, -16, -20, -24, -26, -30, -34, -40, -50, -56, -60, -64; Cat. Nos. 2516S followed by -02 through -0; Cat. No. 2316S followed by -02 through -21; Cat. No. 2323S followed by -02 through -20; Cat. No. 2316S followed by -10, -12, -20, -30, -40, -50, -60, -68, -80, -100; Cat. No. 2314S followed by -02 through -21, Cat. No. 2525 followed by -10, -12, -20, -30, -40, -50, -60, -80, -100, -120; Cat. No. 2314S followed by -02, -26, -32, -34, -40, -50, -60, -64; Cat. No. 2525 followed by -10, -12, -20, -30, -40, -50, -60, -80, -100; Cat. No. 2314S followed by -02, -26, -32, -34, -40, -50, -50, -60, -64; Cat. No. 2224 followed by -02 through -15; Cat. No. 2311R, 2211S followed by -01 through -40.

Cat. Nos. 2213R, 2213S followed by -02 through -80; Cat. No. 2212S followed by -02 through -40; Cat. No. 2214S followed by -02 through -80; Cat. Nos. 2215R, 2215S followed by -10, -12, -16, -18, -20, -26, -30, -34, -40, -50, -60; Cat. No. 2225 followed by -36, -44, -50, -62, -80, -86, -100; Cat. No. 2207S followed by -02 through -80; Cat. Nos. 2208R, 2208S followed by -02 through -80; Cat. No. 2209S followed by -01 through -40; Cat. Nos. 2210R, 2210S followed by -01 through -40; Cat. No. 2206S followed by -01 through -30; Cat. No. 41612 followed by -32, -48, -64, -96.

Mini jumpers, Cat. Nos. 2205, 2228 followed by -02.

Wire to wire connectors, Cat. No. 8182 followed by -04; Cat. Nos. 5005, 5006 followed by -01, -02, -03, -04A, -04B, -05, -06, -09, -12, -15.

D-Sub connectors, Cat. Nos. 5514P, 5514R followed by -13; Cat. Nos. 5512P, 5512S followed by -15, -26, -44, -62; Cat. No. 5511 followed by -09, -15, -25; Cat. No. 5510 followed by -15; Cat. Nos. 5509P, 5509S followed by -15, -26, -62; Cat. Nos. 5508P, 5508S followed by -15, -26, -44, -62; Cat. Nos. 5506P, 5506S followed by -09, -15, -25, -37; Cat. Nos. 5504PF1, 5504SF1, 5504SF2, 5505F1, 5505F2, 5503S, 5503P followed by -09, -15, -25, -37; Cat. Nos. 5501P, 5501S, 5502 followed by -09, -15, -19, -23, -25, -37, -50.

Centronic connectors, Cat No. 5701 followed by -14, -24, -36; Cat. Nos. 5702, 5703, 5706 followed by -40; Cat. No. 5704 followed by -30; Cat. No. 5707 followed by -20.

Scart connectors, Cat. Nos. 1109, 1111, 1113 followed by -21; Cat. Nos. 1009, 1011, 1013 followed by -21; Cat. Nos. 1114R, 1114S followed by -21.

Connectors, Model No. 1002S followed by 30, 40, 50, 60 or 68; Model No. 1003-P-50; Model No. 1010 followed by 50 or 68, followed by P-PN; Model No. 1211 followed by 04, 06 or 08, followed by 04, 06 or 08; Model No. 1223 followed by -04 through 30, followed by 02 or 03; Model No. 1224S followed by 04 through 27; Model No. 1224SM followed by 04 through 30; Model No. 1230S followed by 04 through 15; Model No.1230R followed by 04 through 30; Model No. 1250HM followed by 02 through

15; Model No. 1251SM followed by 02 through 15; Model No. 1251RM followed by 02 through 15; Model No. 1251S followed by 02 through 15, followed by SMD; Model No. 1251R followed by 02 through 15, followed by SMD; Model No. 1310H followed by 02 through 15; Model No. 1394-06; Model No. 1778 followed by 16, 20, 22, 24, 28, 30, 32, 40, 42, 48, 52, 54, 56 or 64, followed by 03, 04 or 06; Model No. 1778MC followed by 16, 20, 24, 28, 30, 40, 42, 48, 52, 56 or 64, followed by 03, 04, 06 or 075; Model No. 1999P followed by 04 through 80; Model No. 1999S followed by 04 through 120, followed by A1, A2 or A3, followed by B1, B2 or B3; Model No. 2006H followed by 01, through 06; Model No. 2006S followed by 01 through 05; Model No. 2010 followed by 10 through 12, followed by H1, H2, H3 or H4; Model No. 2011-10; Model No. 2016 followed by 10, 12, 14, 16, 20, 22, 24, 26, 30, 34, 36, 40, 44, 50, 60, 64 or 68; Model No. 2018 followed by P or R, followed by 02 through 12; Model No. 2099P followed by 04 through 10; Model 2099S followed by 04 through 14; Model No. 2100P followed by 06 through 20; Model 2100S followed by 04 through 10; Model No. 2110 followed by 20, 30, 40, 50, 60, 80 or 100, followed by 34 or 44, followed by MM; Model No. 2114 followed by R, H or S, followed by 02 through 10; Model No. 2150-08; Model No. 2198S followed by 10, 24, 30, 40, 44, 50, 60, 70, 80, 90 or 100, followed by A1 or A2; Model No. 2199SA followed by 04 through 30, followed by 01 through 03; Model No. 2199SB followed by 02 through 10, followed by A1, A2 or A3, followed by B1 or B2, followed by C1 or C2; Model No. 2199R followed by 0 or 5, followed by 04 through 30, followed by A1, A2 or A3, followed by B1 or B2, followed by C1 or C2; Model No. 2200SA followed by 05 through 50, followed by A1 or A2; Model No. 2200SB followed by 10 through 50, followed by A1 or A2; Model No. 2204 followed by S or R, followed by 02 through 30; Model No. 2206SA followed by 01 through 36, followed by 46; Model No. 2206SB followed by 02 through 16, followed by 46; Model No. 2206PA followed by 01 through 36, followed by 739; Model No. 2206PB followed by 02 through 50, followed by 739; Model No. 2227MC followed by 06, 08, 10, 14, 16, 18, 20, 22, 24, 28, 32, 36, 40, 42, 48 or 64, followed by 03, 06 or 09; Model No. 2233 followed by S or R, followed by 03 through 120; Model No. 2317 followed by SEH or REH, followed by 02 through 15; Model No. 2317 followed by RM or SM, followed by 02 through 10; Model No. 2318 followed by HM or HEH, followed by 02 through 15; Model No. 2323 followed by R or S, followed by 04 through 23, followed by A or B; Model No. 1016 followed by 09 or 15; Model No. 2007H followed by 02 through 06; Model No. 2007S followed by 02 through 05; Model No. 2324S followed by 04 through 22; Model No. 2324R followed by 03 through 30; Model No. 2392-5100; Model No. 2417 followed by SB or RB, followed by 02 through 08; Model No. 2418HB followed by 02 through 15; Model No. 3750R followed by 02 through 12; Model No. 3750S followed by 02 or 03; Model No. 3920 followed by 02, 03, 04, 06, 09 or 12; Model No. 3921 followed by 02, 03, 04, 06, 09 or 12; Model No. 41815 followed by R, S or BE, followed by 02 through 10; Model No. 4407 followed by 10, 14, 16, 20, 26, 34, 40, 50, 60 or 64; Model No. 4408 followed by 10, 12, 16, 20, 24, 26, 30, 34, 40 or 44; Model Nos. 5075AS-04, 5075BR-04, 5075AR-08B, 5075AR-04; Model No. 5197H followed by 02 through 12; Model No. 5197 followed by S or R, followed by 02 through 04, may be followed by 01; Model No. 5504F3-09P; Model No. 5513S followed by 3W3, 5W1, 7W2, 8W8, 11W1 or 13W3; Model No. 5515-13W3; Model No. 5557 followed by 02, 04, 06, 08, 10, 12, 14, 16, 18 or 20; Model No. 5559 followed by 02, 04, 06, 08, 10, 12 or 14; Model No. 5566S followed by 02, 04, 06, 08, 10, 12, 14, 16, 18 or 20; Model No. 5569R followed by 02, 04, 06, 08, 10, 12, 14, 16, 18 or 20, may be followed by 01; Model No. 6127 followed by S or P, followed by 02 through 31; Model No. 6604P followed by 01 through 40, followed by 9.1, 10.0, 10.6, 12.1 or 13.7; Model No. 6604S followed by 01 through 40, may be followed by WR; Model No. 6610-321; Model No. 6610P-321, 6615-168-LE; Model No. 8981 followed by SA, SM or R, followed by 04; Model No. 8982S followed by 02 through 08; Model No. SQJ followed by 24S, 26S, 28S, 28L, 32S or 40L; Model No. 4410-40.

Models 5589, 5321, 5592, 5594.

Low voltage connectors, Cat. No. 2350SM-02.

Cat. No. 225SM followed by 20, followed by 01; Cat. No. 1226 followed by 30, followed by 02 or 03; Cat. No. 1254SMB followed by 10, 20, 30 or 40; Cat. Nos. 1394S-06, 1394R-06; Cat. No. 1394SM followed by 04; Cat. No. 1394UR followed by 06; Cat. No. 1500 followed by S or R, followed by 2 through 10; Cat. No. 2000P, followed by 14G, 20G, 30G, 32G, 36G, 40G or 50G, followed by 233; Cat. No. 2001S, followed by 14G, 20G, 30G, 32G, 36G, 40G or 50G, followed by 220; Cat. No. 2212BR followed by 30, followed by G or T; Cat. No. 2212SM followed by 40G, followed by 75; Cat. No. 2214SM followed by 70G, followed by 75; Cat. No. 2214BR followed by 26, followed by G or T; Cat. No. 2214DS followed by 20, followed by 66; Cat. No. 2214TB followed by 2, 4, 6, 8, 10, 12, 14, 16, 18 or 20; Cat. No. 2214113 followed by 64G, followed by 1A, 1B, 2B, 3B, 1C, 2C, 3C or 4C; Cat. No. 2227P followed by 20G, 24G, 28 or 32G, followed by 03 or 06; Cat. No. 2228P followed by 2 through 10; Cat. No. 2234S followed by 96; Cat. No. 2316113 followed by 64G, followed by A, B or C; Cat. No. 231682-3404 followed by 001 through 006; Cat. No. 2317 followed by SD or RD, followed by 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 or 16; Cat. No. 2325 followed by 18/36, 20/40, 22/44, 28/56, 30/60, 36/72, 40/80, 43/86 or 50/100, followed by L1 or L2; Cat. No. 2392-5100; Cat. No. 2400SM followed by 02, 03 or 04, maybe followed by T1, T2 or T3; Cat. No. 2417 followed by SJ or RJ, followed by 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30 or 32, followed by PHD; Cat. No. 2425 followed by 40, 44, 56, 60, 86 or 100, followed by L1 or L2; Cat. No. 2525 followed by 200; Cat. No. 2526-242-SLOT1; Cat. No. 2710-06 followed by one alphanumeric digit; Cat. No. 4110SM followed by 07, followed by A1, A2 or A3, followed by M; Cat. No. 4120SM followed by 09; Cat. No. 4130SM followed by 10; Cat. Nos. 5075BMR-04-SM, 5075BMR-05-SM, 5075AMR1-04-SM; Cat. No. 5075BS followed by 04, followed by WH; Cat. No. 5075AUR followed by 04; Cat. Nos. 5075ARP-04, 5075ARP-04-SMD; Cat. No. 5198 followed by S or R, followed by 2 through 10; Cat. No. 6604SB followed by 40WR; Cat. No. 6801S followed by 50, followed by 70; Cat. No. 6831S followed by 40; Cat. No. 7520SL followed by 50P, followed by A, B, C or D; Cat. No. 7520 followed by 50P, followed by T1B3; Cat. Nos. ICA-501-006, ICA-501-008.

Cat. No. 1320H followed by 02 through 12; Cat. No. 5560 followed by 02, 04, 06, 08, 10, 12, 14, 16 or 18; Cat. No. 5561 followed by 02, 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561S followed by 02, 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561S followed by 02, 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561S followed by 02, 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561R followed by 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561R followed by 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561R followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 04, 06, 08, 10, 12, 14, 16, 18; Cat. No. 5561R followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 7, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 7, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 7, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 7, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 7, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 7, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 7, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 7, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 04, 06, 08, 10, 12, 14, 16 or 18, followed by 05, 06, 09, 12 or 15; Cat. No. 9635R followed by 09, 12 or 15; Cat. No. 2363P followed by 01, 02, 06, 04, 05, 06, 09, 12 or 15, followed by 01; Cat. Nos. 2650P-08, 2650R-08.



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NELTRON INDUSTRIAL CO., LTD SCIENCE SERVICE PLAZA, HENGKE SECOND ROAD, TANGXIA TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

Report on the submitted sample said to be Connector Material PBT Client Reference: P/N:See remark

SGS Ref No.		: SZ10034362-8.8
Sample Receiving	g Date	: AUG 16, 2006
Testing Period		: AUG 16, 2006 TO AUG 22, 2006
Test Requested	content in (2) Determina	ed by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium the submitted sample. ation of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated ethers) of the submitted sample.
Test Method	Cadmium Mercury o digestion. Hexavale Analysis Plasma A Spectrop	tent - With reference to EPA 3050B: 1996 & other acid digestion. content - With reference to BS EN1122: 2001 method B & other acid digestion. content - With reference to EPA 3052: 1996 & EPA 7473: 1998 & other acid int Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992. was performed by Atomic Absorption Spectrometer & Inductively Coupled atomic Emission Spectrometer (ICP-AES) & Direct Mercury analyzer & UV-VIS notometer. rence to EPA 3540C & EPA 3550C. Analysis was performed by GC-MS.

Results : Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Wang HongLei, Leo Sr. Engineer

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Results : (1)

Item	Unit	MDL	Black plastic part
Lead Content (Pb)	mg/kg	2	21
Cadmium Content (Cd)	mg/kg	2	N.D.
Mercury Content (Hg)	mg/kg	2	N.D.
Hexavalent Chromium Content [Cr(VI)]	mg/kg	2	N.D.

Note : - N.D. = Not Detected (< MDL)

- MDL = Method Detection Limit

⁽²⁾

Item	Unit	MDL	Black plastic part
Flame Retardants			
Polybrominated Biphenyls (PBBs)		i i i i i i i i i i i i i i i i i i i	
Monobromobiphenyl	mg/kg	5	N.D.
Dibromobiphenyl	mg/kg	5 5	N.D.
Tribromobiphenyl	mg/kg		N.D.
Tetrabromobiphenyl	mg/kg	5	N.D.
Pentabromobiphenyl	mg/kg	5	N.D.
Hexabromobiphenyl	mg/kg	5	N.D.
Heptabromobiphenyl	mg/kg	5	N.D.
Octabromobiphenyl	mg/kg	5	N.D.
Nonabromodiphenyl	mg/kg	5	N.D.
Decabromodiphenyl	mg/kg	5	N.D.
Polybrominated Diphenylethers (PBDEs)			
Monobromodiphenyl ether	mg/kg	5	N.D.
Dibromodiphenyl ether	mg/kg	5	N.D.
Tribromodiphenyl ether	mg/kg	<u>5</u>	N.D.
Tetrabromodiphenyl ether	mg/kg	5	N.D.
Pentabromodiphenyl ether	mg/kg	5	N.D.
Hexabromodiphenyl ether	mg/kg	5	N.D.
Heptabromodiphenyl ether	mg/kg	5	N.D.
Octabromodiphenyl ether	mg/kg	5	N.D.
Nonabromodiphenyl ether	mg/kg	5	N.D.
Decabromodiphenyl ether	mg/kg	5	N.D.

Note : - N.D. = Not Detected (< MDL)

- MDL= Method Detection Limit

- mg/kg = ppm

- Photo appendix is included

*** End of Report ***

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 f (86-20)82075125
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⁻ mg/kg = ppm



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Date: AUG 28, 2006

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NO	P/N	MATERIAL	NO	P/N	MATERIAL	P/N	MATERIAL
1	1201(V)-XX-5M(- SL)-FX	PBT	31	41612- 32AB(48ABC/64AB/96ABC) -XX-FX	РВТ	5514P(S)- XXWXX- FX	РВТ
2	1202S-XX-0505(- M)(-XX)-FX	РВТ	32	4400-XX(SR)	РВТ	5515P(S)- XXWXX- FX	PBT
3	1211-XX/XX-FX	РВТ	33	4401-XXSR-FX	РВТ	6801S- XX-XX-FX	PBT
4	1230S(R)-XX-FX	PBT	34	4402-XXSR-FX	PBT	6803S- XX-XX-FX	PBT
5	1394R(S/UR)- XX(-TC)-FX	РВТ	35	4403-XX-FX	PBT	7002- XPXC-FX	PBT
6	1600H(HB) Series (-FX)	РВТ	36	4404A(B)-XX-FX	PBT	7005- XPXC-FX	РВТ
7	1778MC(P/S)- XX-XX(-114)-FX	РВТ	37	4405-XX-FX	PBT	7006- XPXC-FX	PBT
8	2205XX-FX	РВТ	38	4406-XX-FX	PBT	7007- XPXC-FX	PBT
9	6901Series -(FX)	PBT	39	4407-XX-FX	РВТ	7008- XPXC-FX	PBT
10	2208DI(S/R)- XXG(-XXX)	РВТ	40	4408-XX-FX	РВТ	7010V-X- XPXC-FX	РВТ
11	2210S(R/DI)- XXG(-XXX)	PBT	41	4410-40SR-XX-FX	PBT	7062- XPXC-FX	PBT
12	2211DI(S/R/U)- XXG(03T)- XXG(LP/774/954) -FX	РВТ	42	4412-XX	РВТ	7250S- XPXC-FX	РВТ
13	2212(2214)TBA- XXX-XXX(Height)	PBT	43	4415-XX	PBT	7290- XPXC-FX	PBT
14	2212111-XXG- XX-FX	PBT	44	4501-XXSR-FX	PBT	7666-2- 6PXC-FX	PBT
15	2212S(BR/CS/DS /TB)-XXG(SG)- XX(86/66/36/57/8 5)-FX	PBT	45	5075AR(ARP/ARRP/AS/AU R)-08B(12C/16D)-XX	PBT	7731- 8824- XXX-FX	PBT
16	2213DI(S/R)- XXG- XX(774/954)-FX	РВТ	46	5075BR(BRP/BS)-04-XX	PBT	7801R- XX-70-FX	РВТ

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17	2214113-XXG- XX-FX	PBT	47	5501 Sseries -(FX)	РВТ	7803R- XX-70-FX	PBT
18	2214BR(CS/DS/ R/S/TB)- XXG(SG)- XX(86/66/85/36/5 7)-FX	РВТ	48	5502 Series -(FX)	РВТ	7810- XPXC-FX	РВТ
19	2215S(R)-XXG- FX	PBT	49	5503 Series -(FX)	РВТ	7907-X- XPXC-FX	РВТ
20	2216S(R)-XXG- XX	PBT	50	5504F1 Series -(FX)	РВТ	7908-X- XPXC-FX	РВТ
21	2223S(R)-XX-FX	PBT	51	5504F1(FX) Series -(FX)	РВТ	7950- XPXC-FX	PBT
22	2225ME(R/S)- XX(-XX)-FX	PBT	52	5504F1C Series -(FX)	РВТ	95001-X- XPXC-FX	PBT
23	2227(P)-XX-XX- FX	РВТ	53	5504F2 Series -(FX)	РВТ	AY222- AY224	PBT
24	2228P-XXG-FX	PBT	54	5506 Series -(FX)	PBT	81XS(R/S MAP/XX)- XXX-(FX)	РВТ
25	2228XG-FX	РВТ	55	5508 Series -(FX)	РВТ	921XS(R/ SM/P/XX)- XXX-(FX)	PBT
26	2233S(R)-XXG- FX	PBT	56	5509 Series -(FX)	РВТ	376XS(R/ SM/P/XX)- XX-(FX)	PBT
27	2234S-XXG-FX	РВТ	57	5510 Series -(FX)	PBT	121XS(R/ SM/P/XX)- XX-(FX)	PBT
28	2316S(R)-XXG- FX	PBT	58	5510C Series -(FX)	PBT	201XS(R/ SM/P/XX)- XXX-(FX)	PBT
29	2323S(R)-XX-FX	PBT	59	FO-X-00(02/04)-XX-FX	PBT	702XS(R/ SM/P/XX)- XXX-XX- (FX)	PBT
30	2324S(R)-XX-FX	РВТ	60	5511-HD15F-3PJ-FX	PBT	451XS(R/ SM/P/XX)- XXX-XX- (FX)	PBT
91	2325-XX-XX-FX	РВТ	96	5511-HD15FMD6SX2-FX	РВТ	511XS(R/ SM/P/XX)- XXX-XX- (FX)	PBT
92	5511-25S- 09PHD15S-FX	РВТ	97	5511-XXM/XXM-XX-XX-FX	PBT	681XS(R/ SM/P/XX)- XXX-XX- (FX)	PBT

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93	2392(R1)-2100- FX	PBT	98	5512 Series -(FX)	РВТ	TAE-06-30	PBT
94	2425-XX-XX-FX	PBT	99	5513P(S)-XXWXX-FX	РВТ		
95	3750A(C/G/H/S/R)-XX	PBT	100	5504F3Series-(FX)	РВТ		

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Test Report No GZ0601009962/CHEM

Qate. FEB 06, 2006

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DOHO METAL PRODUCTS (DONGGUAN) CO., LTD XIXING JIE, XI HU GONG YE YUAN, LIN CUN, TANG XIA ZHEN, DONG GUAN SHI, GUANG DONG PROVINCE. CHINA.

Report on the submitted sample said to be C5191R

SGS Ref No	: SZ060103348RS-6.1
Sample Receiving Date	: JAN 26, 2008
Testing Period	: JAN 28, 2008 TO FEB 06, 2006

: As specified by client, to determine the Lead, Cadmium, Mercury & Mexavalant Chromium Test Requested content in the submitted sample.

Test Method . Lead content - With reference to EPA method 3050B: 1996 / other acid digestion Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion Mercury content - With reference to EPA 3052: 1996 / other acid digestion. Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A 1997 Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer

Results

Item [®]	Unit	MDL	Copperv metal sheet		
Lead Content (Pb)	ppm	2	. 13		
Cadmium Content (Cd)	ppm	= 2	N.U		
Mercury Content (Hg)	ppm	2	NO		
Hexavalent Chromium (Cr VI)	ppm	2	N D.		

Note : - N.D = Not Detected (< MDL)

- MDL= Method Detection Limit

- ppm = mg/kg

"" End of Report ""

Signed for and on behall of SGS-CSTC Ltd.

Huang Fang, Sunny Sr. Engineer

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Test Report

No.: GZ0609139905A/CHEM

Date: OCT 18, 2006

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CHANGDA METALS MADE & ELECTROPLATE CO., LTD LUDONG ZONE, HUMEN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

This report is to supersede test report GZ0609139905/CHEM

Report on the submitted sample said to be 铁材镀镍

SGS Ref No.		: SZ10069574-15.14
Sample Receiving Date	•	: SEP 08, 2006
Testing Period		: SEP 08, 2006 TO SEP 14, 2006

Test Requested : As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method

: Lead content - With reference to EPA 3050B: 1996 & other acid digestion. Cadmium content - With reference to BS EN1122: 2001 method B & other acid digestion. Mercury content - With reference to EPA 3052: 1996 & other acid digestion. Hexavalent Chromium content - As specified by client, with reference to ISO 3613 : 2000 (Clause 5.6). Analysis was performed by Atomic Absorption Spectrometer & Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) & UV-VIS Spectrophotometer.

Results

ltem >	Unit	MDL	Silver-gray plated metal
Lead Content (Pb)	mg/kg	2	N.D. (
Cadmium Content (Cd)	mg/kg '	2	N.D
Mercury Content (Hg)	mg/kg	2	N.D.
Hexavalent Chromium Content [Cr(VI)]	µg/cm ²	0.02	N.D.

Note : - N.D. = Not Detected (< MDL)

MDL = Method Detection Limit
mg/kg = ppm

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Sr. Engineer

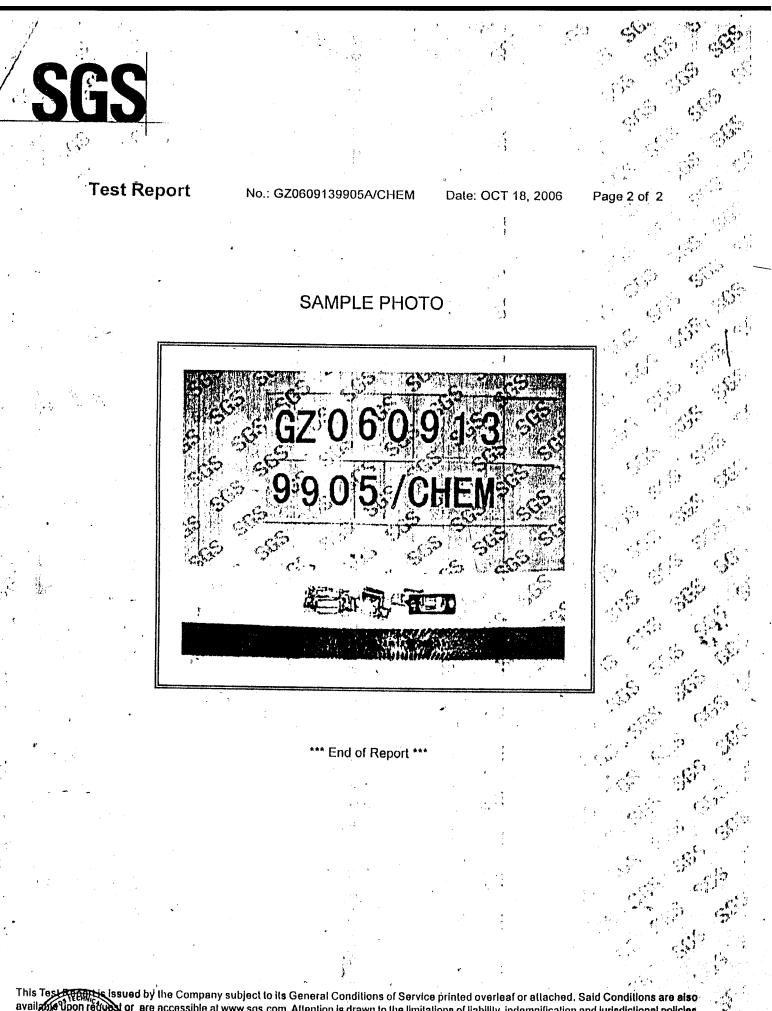
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