

鐔實有限公司

Proten Electronic Corp

零件承認書

Specification for Approval

Customer	Wiwynn Corporation
Part Number	5313-07450-00107
Customer P/N	50.64W28.001

Tel : 886-2-2938-3242

Fax : 886-2-2234-3612

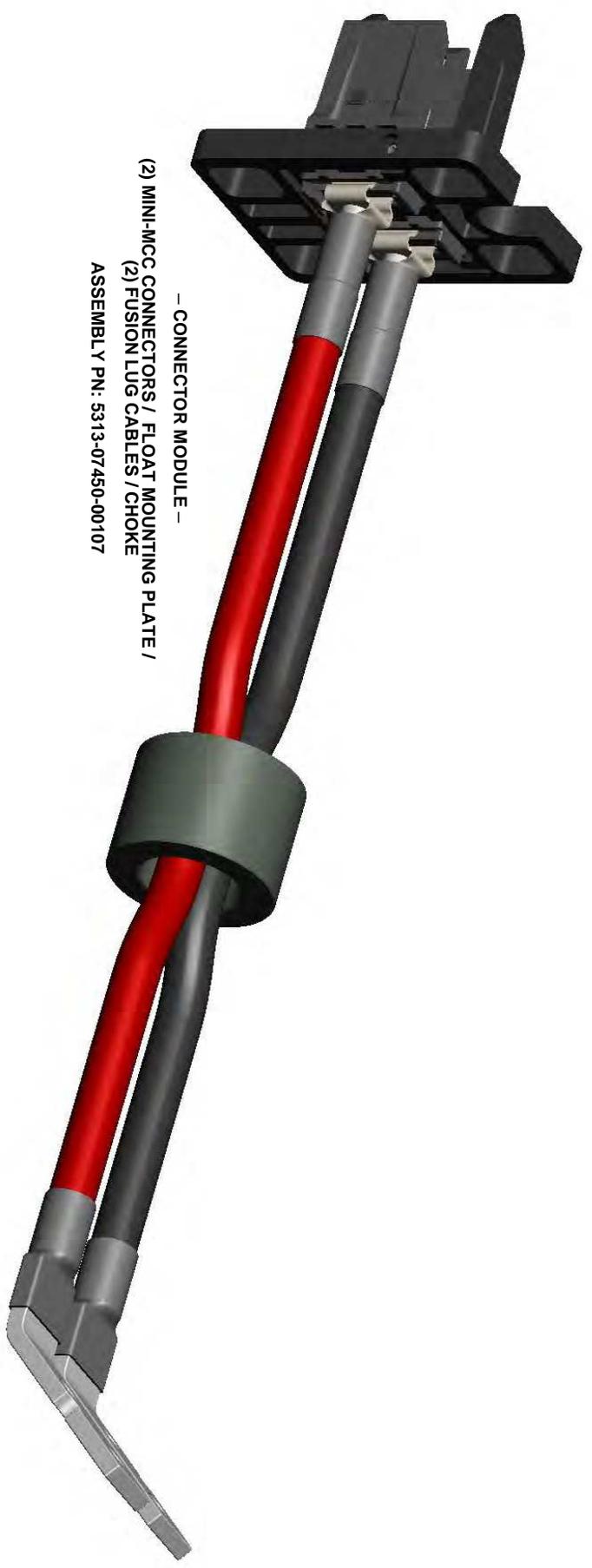
www.pro-ten.com.tw

Date : 2013.April.29

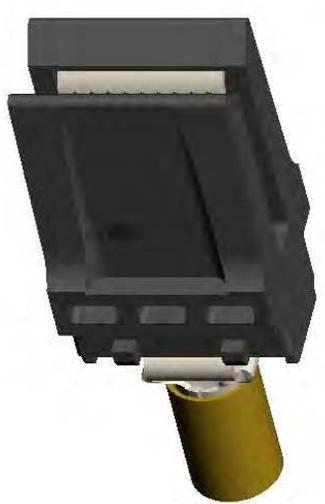
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ECO	REV	DESCRIPTION	DATE
N/A	A	INITIAL RELEASE DRAWING	03/14/2013

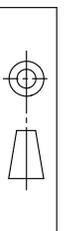


— CONNECTOR MODULE —
 (2) MINI-MCC CONNECTORS / FLOAT MOUNTING PLATE /
 (2) FUSION LUG CABLES / CHOKE
 ASSEMBLY PN: 5313-07450-00107



— MINI-MCC BUS CONNECTOR —
 PN: 5301-07278-00107

- NOTES: UNLESS OTHERWISE SPECIFIED
- CONNECTOR NAMES AND PART NUMBERS:
 - **CONNECTOR PART NUMBER: 5301-07278-00107**
 - CONNECTOR DESCRIPTION:
 MINI-MCC BUS CONNECTOR
 SIZE 3.0MM THICK MATING BUS, 6 AWG CRIMP
 - **CONNECTOR MODULE PART NUMBER: 5313-07450-00107**
 - MODULE INCLUDES:
 (2) MINI-MCC BUS CONNECTORS
 (2) POWERFLEX CABLES 6 AWG 600V / 45° FUSION LUG
 (1) FLOAT MOUNTING PLATE
 (1) CHOKE - KING CORE CHOKE PN: K5B T 31x22.22x19
 OR STEWARD PN: 28B1250-000
 - CONNECTOR MATERIALS:
 CONNECTOR INSULATOR: POLYESTER THERMOPLASTIC, UL 94 V-0
 MOUNTING PLATE: POLYESTER THERMOPLASTIC, UL 94 V-0
 CONTACTS: COPPER ALLOY
 CRIMP BARREL SHROUD: COPPER ALLOY
 - FINISHES:
 CONTACT INTERFACE: NICKEL PLATE
 FUSION LUG: TIN / SILVER DIP
 - REFERENCE DIMENSIONS IN PARENTHESES (XXX) ARE WITHOUT TOLERANCE AND USED FOR INFORMATION ONLY.
 - OPERATIONAL CONDITIONS:
 * CONNECTOR HOUSING LEAD-IN GATHERING OF 3 MM OFF CENTERLINE PERPENDICULAR TO MATING BUS
 * MOUNTING PLATE FLOAT +3MM PERPENDICULAR TO MATING BUS AND +4MM PARALLEL TO MATING BUS WHEN USING Ø4.2 MM STANDOFF BARREL AS DESCRIBED ON SHEET 3.
 * INDIVIDUAL CONNECTOR FLOAT CLEARANCE IN MOUNTING PLATE OF 0.3MM.
 * RELIABLE MATE DEPTH (SEE SHEET 3).
 * ESTIMATED CONNECTOR MATING (SLIDING) FORCES 1.2 KGF (12 N) WHEN BUS HAS A SMOOTH SURFACE FINISH.



THIRD ANGLE PROJECTION

TOLERANCES
 UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN MILLIMETERS
 TOLERANCES ARE:
 DECIMALS ANGLES
 XX ± 0.2
 XXX ± 0.08
 XXXX ± 0.013

SURFACE FINISH: N/A

CONNECTOR & ASSEMBLY MODULE PART NUMBERS:
 LISTED IN NOTE 1
 DRAWING NUMBER BELOW IN TITLE BLOCK



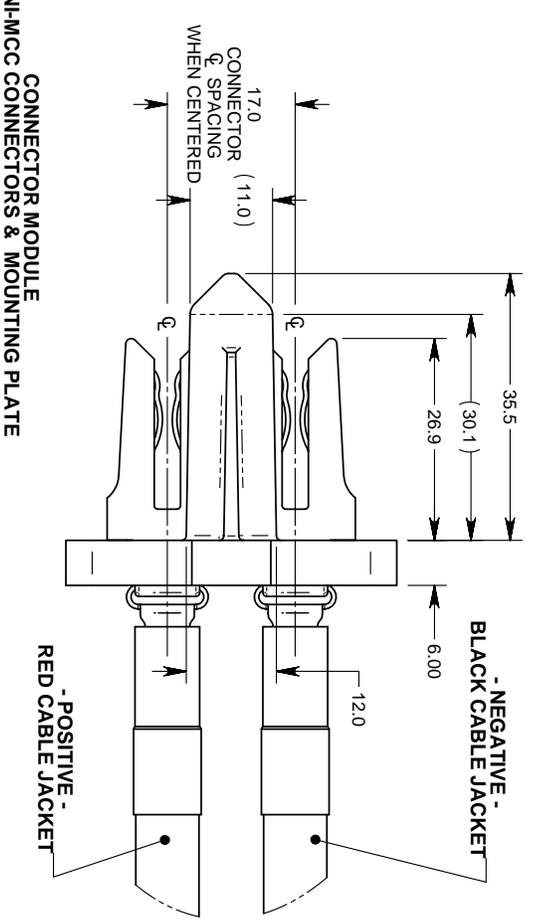
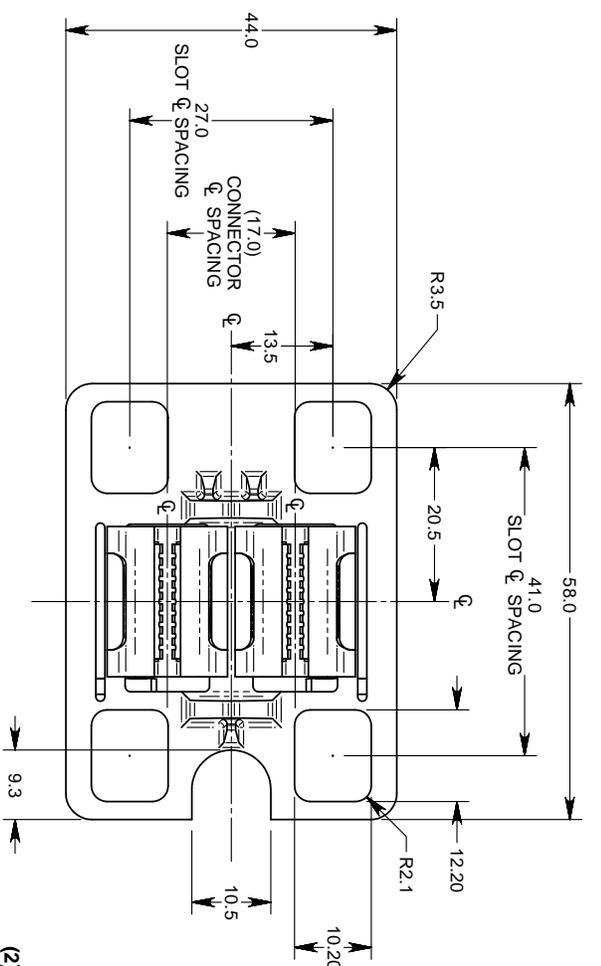
METHODE ELECTRONICS, INC.
POWER SOLUTIONS GROUP
 1750 Junction Avenue, San Jose, CA 95112 (408) 453-9500

TITLE: **USER DRAWING, CONNECTOR MODULE DUAL MINI-MCC 3 MM BUS FUSION LUG TERMINATION**

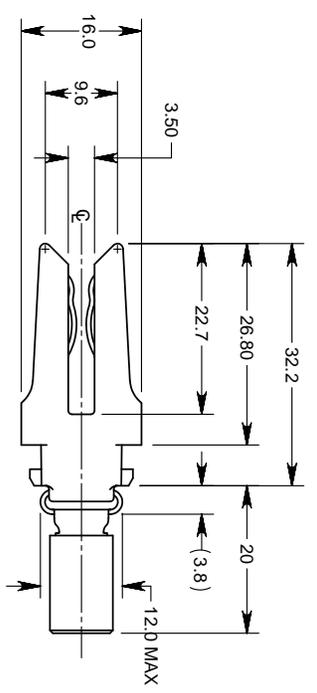
DATE	NAME	ORIG:	CHECKED:	PROPRIETARY AND CONFIDENTIAL NOTICE	SIZE	DRAWING NUMBER:	REV
03/14/2013	R. Larsen	ENGR:	H. Han	PROPERTY AND CONFIDENTIAL INFORMATION AND IS NOT TO BE DISTRIBUTED, COPIED, OR SHARED EXCEPT WITH PRIOR WRITTEN APPROVAL OF METHODE ELECTRONICS, INC. FOR THE SOLUTIONS GROUP.	C	C5313-07452-00107	A

SCALE: 2:1 FILENAME: 5313-07452-00107

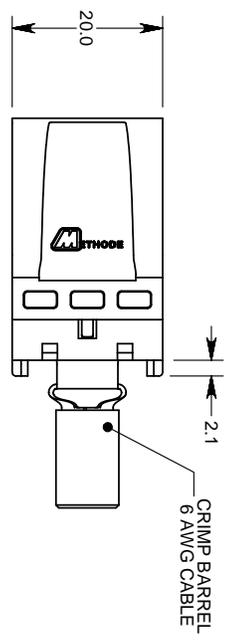
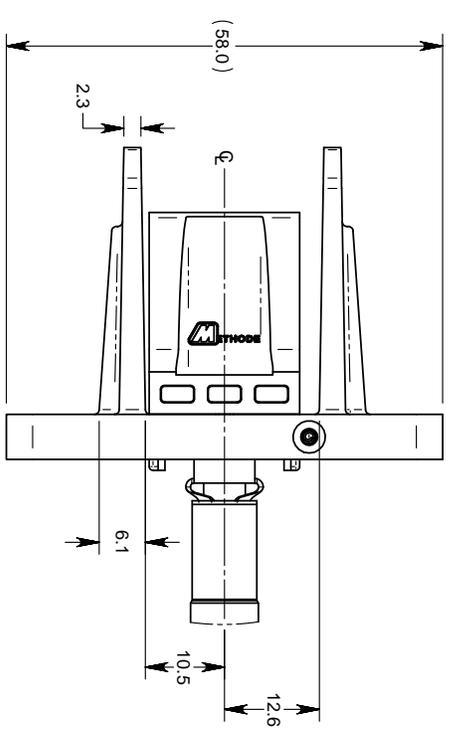
ECO	REV	DESCRIPTION	DATE
N/A	A	INITIAL RELEASE DRAWING	03/14/2013



(2) MINI-MCC CONNECTORS & MOUNTING PLATE



MINI-MCC BUS CONNECTOR



THIRD ANGLE PROJECTION	NAME	DATE
	R. Larsen	03/14/2013
	R. Larsen	03/14/2013
	H. Han	03/14/2013

TOLERANCES UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:	ORIG: R. Larsen	DATE: 03/14/2013
DECIMALS XX ± 0.2 XXX ± 0.08 X.XXX ± 0.013	ENGR: R. Larsen	DATE: 03/14/2013
ANGLES ± 2.0	CHECKED: H. Han	DATE: 03/14/2013

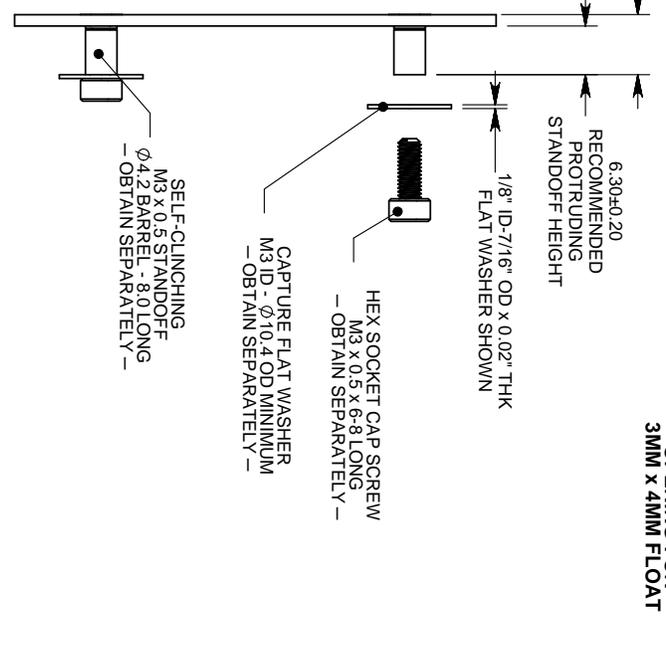
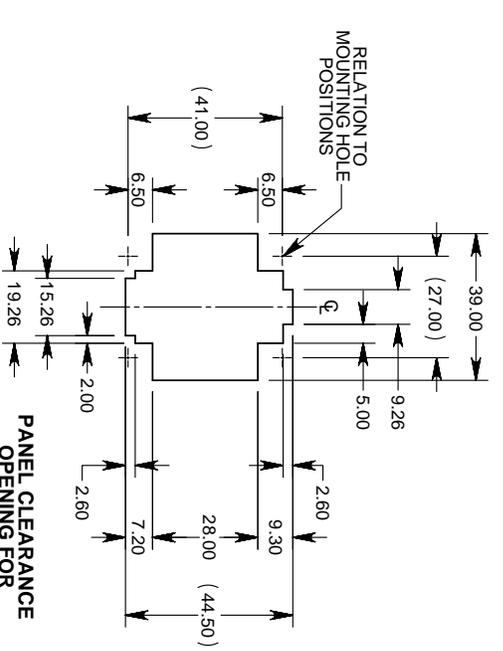
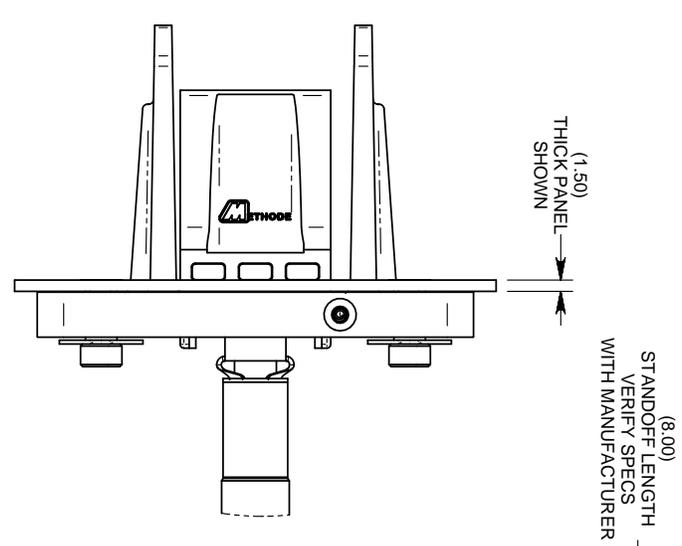
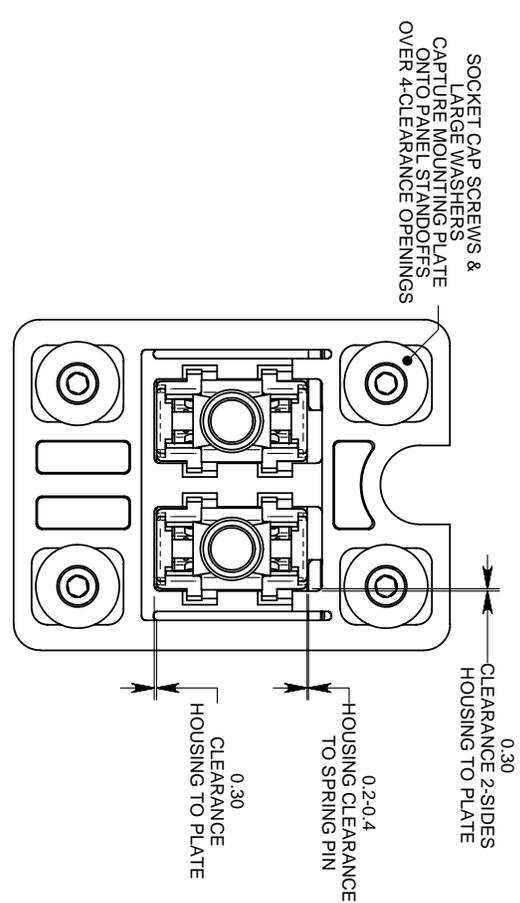
TOLERANCES UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:	ORIG: R. Larsen	DATE: 03/14/2013
DECIMALS XX ± 0.2 XXX ± 0.08 X.XXX ± 0.013	ENGR: R. Larsen	DATE: 03/14/2013
ANGLES ± 2.0	CHECKED: H. Han	DATE: 03/14/2013
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SURFACE FINISH: N/A	SCALE: 2:1	FILENAME: 5313-07452-00107

METHODE ELECTRONICS, INC.
POWER SOLUTIONS GROUP
1750 Junction Avenue, San Jose, CA 95112 (408) 453-9500

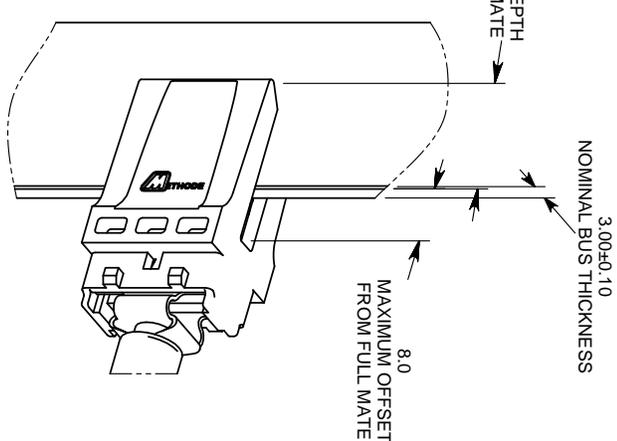
TITLE: USER DRAWING, CONNECTOR MODULE
**DUAL MINI-MCC 3 MM BUS
FUSION LUG TERMINATION**

SCALE: 2:1
FILENAME: 5313-07452-00107
SHEET 2 OF 4

ECO	REV	DESCRIPTION	DATE
N/A	A	INITIAL RELEASE DRAWING	03/14/2013



SYSTEM PANEL & HARDWARE



THIRD ANGLE PROJECTION	NAME	DATE
	ORIG: R. Larsen	03/14/2013
	ENGR: R. Larsen	03/14/2013
	CHECKED: H. Han	03/14/2013

TOLERANCES
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
TOLERANCES ARE:

DECIMALS ANGLES

XX ± 0.2

XXX ± 0.08

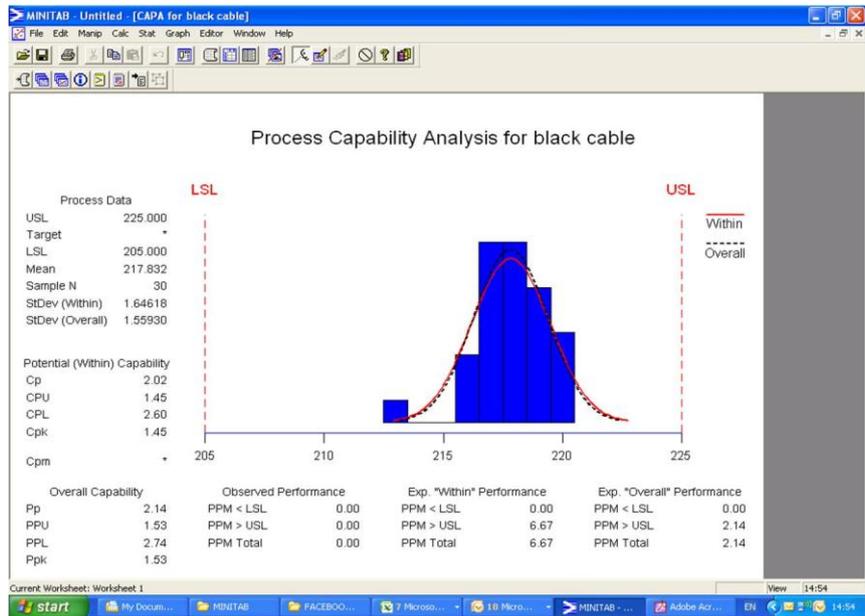
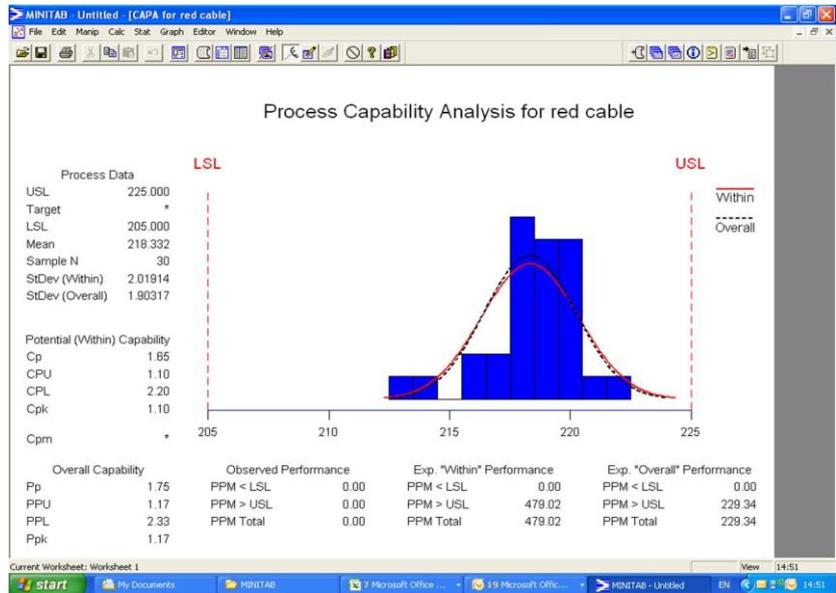
XXXX ± 0.013

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SURFACE FINISH: N/A		SCALE: 2:1	FILENAME: 5313-07452-00107
DRAWING NUMBER: C5313-07452-00107		REV	A
TITLE: USER DRAWING, CONNECTOR MODULE DUAL MINI-MCC 3 MM BUS FUSION LUG TERMINATION		SHEET 3 OF 4	

METHODE ELECTRONICS, INC.
POWER SOLUTIONS GROUP
1750 Junction Avenue, San Jose, CA 95112 (408) 453-9500

	red cable	black cable
spec	205-225	
sample size	30	30
mean	218.332	217.832
cpk	1.1	1.45



Material Component Table

Supplier: 延陵精密电子（昆山）有限公司

Type name:

No.	Product name /Type name	Material Name	Material Component	Material company and origin producing area 原材料公司与产地
1	Mini-MCC 3mm Split Barrel /9117-07364-021xx	C36000 Ø8.5	铜 Cu 60.0~63.0 铅 Pb 2.5~3.7 铁 Fe ≤0.35 镍 Ni=0.0544 锡 Sn=0.2 镉 Cd<0.0075	铜陵有色股份铜冠黄铜棒材有限公司/

Note: The above materials meet the ROHS requirements



Material Component Table

Supplier: 钧宝电子工业股份有限公司

Type name:

No.	Product name /Type name	Material Name	Material Component	Material company and origin producing area 原材料公司与产地
1	King Core Choke /K5B T 31x22.22x19	Ferrite core	Iron Oxide ~50% Nickel Oxide~15% Zinc Oxide ~20% Copper Oxide~14.85% Bismuth Oxide~0.15%	美、澳、日、台湾、秘魯

Note: The above materials meet the ROHS requirements





MDS Report

Substances of assemblies and materials

1. Company and Product Name

1.1 Supplier Data

Name [ID]: **hongshang
heatshrinkable Materials
Co., Ltd [39195]**

DUNS Number: -

Street/Postal Code: **Bantian**

Nat./ZipCode/City: **CN 518129 Shenzhen**

Supplier Code: -

Contact Person: **Xiaoguang Zhong**

- Phone: **86-755-84190809**

- Fax No.: **86-755-84190809**

- e-mail address: **tech@hongshang.com**

1.2 Product Identification

Item- /Mat.-No.: **H-2F**

Article Name: **Flame retardant heat
shrinkable tubing**

Report No.: -

Date of Report: -

Purchase Order No.: -

Bill of Delivery No.: -

Development Sample Report: **No**

IMDS ID / Version: **27215863 / 8**

Node ID: **194507540**

MDS Status (Change Date): **Internally released
(01/03/2012)**

2. Recyclate Information

Since IMDS release 3.0, recyclate information is stored on the reference to certain materials.



IMDS ID / Version: 27215863 / 8
 User: Pan, Ge

Page: 2 / 3
 Date: 3/1/12 4:11:57 AM



MDS Report

Substances of assemblies and materials

Materials which are subject to legal prohibitions must not be included!
 Dangerous substances formed or released during use must also be declared
 Please note: GADSL list for substances that require declaration

3. Characterization of the Component

Item- /Mat.-No.: H-2F Report No.: -
 Article Name: Flame retardant heat shrinkable tubing IMDS ID / Version: 27215863 / 8
 Node ID: 194507540

Tree Level	Article Name Article Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
1	Flame retardant heat shrinkable tubing	H-2F	27215863 / 8						
└-2	EVAC -MD5 FR15		175998352 / 1		100			5.1.a	No
└-3	Ethylene-vinyl acetate copolymer	24937-78-8			61.37931	60 - 65			
└-3	Antimonytrioxide	1309-64-4			9.103448	8 - 12		D	
└-3	1,1'-(Ethane-1,2-diy)bis[pentabromobenzene]	84852-53-9			15				

Tree Level	Article Name Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
└-3	Magnesium hydroxide	▲ 1309-42-8				4.551724	4 - 6		
└-3	Aluminium oxide	▲ 1344-28-1				5			
└-3	Carbon black	▲ 1333-86-4				2.775862	2.5 - 3.5		
└-3	Zinc oxide	▲ 1314-13-2				0.637931	0.5 - 1		
└-3	Misc., not to declare	▲ system				1.551724	1 - 3		

This is an uncontrolled copy of a document created by IMDS. End of the report.



MATERIAL SAFETY DATA SHEET



RED PVC 325

1. Product And Company Identification	
Supplier BREEN COLOR CONCENTRATES, INC 11 KARI DRIVE LAMBERTVILLE, NJ 08530 U.S. Company Contact: Dave Mosso Telephone Number: (609) 397-8200 x 123 FAX Number: (609) 397-2551 E-Mail: DMosso@breencolor.com Web Site: www.breencolor.com	Manufacturer BREEN COLOR CONCENTRATES, INC 11 KARI DRIVE LAMBERTVILLE, NJ 08530 U.S. Company Contact: Dave Mosso Telephone Number: (609) 397-8200 x 123 FAX Number: (609) 397-2551 E-Mail: DMosso@breencolor.com Web Site: www.breencolor.com
Supplier Emergency Contacts & Phone Number (609) 397-8200	Manufacturer Emergency Contacts & Phone Number (609) 397-8200
Issue Date: 04/18/2008 Product Name: RED PVC 325 CAS Number: Not Established EPA Registry Number: N/A RCRA Number: N/A MSDS Number: 816 Product Code: RD325	
2. Composition/Information On Ingredients	
THIS PRODUCT IS NOT CONSIDERED TO BE A HAZARDOUS SUBSTANCE UNDER OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).	
3. Hazards Identification	
Eye Hazards N/A	
Skin Hazards N/A	
Ingestion Hazards N/A	
Inhalation Hazards N/A	
Subchronic (Target Organ Effects) N/A	
Chronic/Carcinogenicity Effects N/A	
Epidemiology N/A	
Teratogenicity (Birth Defects) N/A	

MATERIAL SAFETY DATA SHEET

RED PVC 325

3. Hazards Identification - Continued

Reproductive Effects

N/A

Neurotoxicity

N/A

Mutagenicity (Genetic Effect)

N/A

Signs And Symptoms

N/A

Conditions Aggravated By Exposure

N/A

Conditions Aggravated By Overexposure

N/A

4. First Aid Measures

Eye

FLUSH WITH WATER

Skin

WASH WITH SOAP AND WATER

Ingestion

N/A

Inhalation

N/A

Note To Physician

N/A

5. Fire Fighting Measures

Flash Point: N/A °F

Fire And Explosion Hazards

COMBUSTION PRODUCTS INCLUDE CO, CO2 , DIOCHLORO BENZIDINE, AROMATIC AMINE AND CHLORINE GAS. IGNITABLE AND TOXIC GASES WILL BE GENERATED UPON DECOMPOSITION. THERMAL DECOMPOSITION WILL OCCUR AT TEMPERATURES EXCEEDING 350 F, TIME DEPENDENT.

Extinguishing Media

EXTINGUISH WITH DRY CHEMICAL, FOAM OR WATER SPRAY.

Fire Fighting Instructions

WHEN WATER IS USED, IT SHOULD BE APPLIED, IF POSSIBLE, AS A SPRAY FROM A FOGGING NOZZLE.

6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: RECYCLE

7. Handling And Storage

Handling And Storage Precautions

KEEP LIDS ON DRUMS.

MATERIAL SAFETY DATA SHEET

RED PVC 325

7. Handling And Storage - Continued

Handling Precautions

KEEP LIDS ON DRUMS

Storage Precautions

KEEP STORED IN DRY AREA

Work/Hygienic Practices

N/A

8. Exposure Controls/Personal Protection

Engineering Controls

VENTILATION:

LOCAL EXHAUST: NOT NEEDED IN OPEN UNCONFINED AREAS.

MECHANICAL (General): PROVIDE VENTILATION EQUAL TO OUTDOORS.

Eye/Face Protection

SAFETY GLASSES RECOMMENDED.

Skin Protection

UNDER NORMAL CONDITIONS, SKIN PROTECTION SHOULD NOT BE NEEDED, BUT ITS ALWAYS A GOOD PRACTICE TO WEAR CLOTHING THAT COVERS YOUR ARMS, LEGS AND GENERAL BODY AREAS THAT MAY COME IN CONTACT WITH ANY NON HAZARDOUS CHEMICALS.

Respiratory Protection

N/A.. ANY DUST FROM THIS PRODUCT IS CONSIDERED A NUISANCE DUST.

Other/General Protection

NONE REQUIRED

9. Physical And Chemical Properties

Appearance

PELLETS

Odor

NONE

Chemical Type: Mixture

Physical State: Solid

10. Stability And Reactivity

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR

Conditions To Avoid (Stability)

NONE KNOWN

Incompatible Materials

N/A

Hazardous Decomposition Products

COMBUSTION PRODUCTS INCLUDE CO, CO2 , DIOCHLORO BENZIDINE, AROMATIC AMINE AND CHLORINE GAS. IGNITABLE AND TOXIC GASES WILL BE GENERATED UPON DECOMPOSITION. THERMAL DECOMPOSITION WILL OCCUR AT TEMPERATURES EXCEEDING 350 F, TIME DEPENDENT.

MATERIAL SAFETY DATA SHEET

RED PVC 325

10. Stability And Reactivity - Continued

Conditions To Avoid (Polymerization)

NONE KNOWN

11. Toxicological Information

Chronic/Carcinogenicity

N/A

Conditions Aggravated By Exposure

N/A

Conditions Aggravated By Overexposure

N/A

12. Ecological Information

No Data Available...

13. Disposal Considerations

COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS

RCRA Information

THIS PRODUCT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE ACCORDING TO RCRA STANDARDS.

14. Transport Information

THIS PRODUCT IS NOT REGULATED DURING TRANSPORT.

15. Regulatory Information

U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian Regulatory Information

CANADIAN INVENTORY STATUS: ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL)

CANADIAN WHMIS: THIS MATERIAL IS NOT CLASSIFIED AS A CONTROLLED PRODUCT UNDER THE CANADIAN WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM.

16. Other Information

Revision/Preparer Information

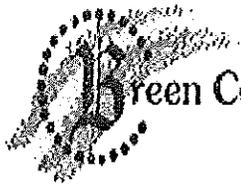
This MSDS Supercedes A Previous MSDS Dated: 05/16/2003

Disclaimer

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BREEN COLOR CONCENTRATES, INC

Printed Using MSDS Generator™ 2000



MATERIAL SAFETY DATA SHEET

Breencolor Concentrates, Inc.

BLACK VINYL 105

1. Product And Company Identification

Supplier

BREEN COLOR CONCENTRATES, INC
11 KARI DRIVE
LAMBERTVILLE, NJ 08530 U.S.

Company Contact: Dave Mosso
Telephone Number: (609) 397-8200 x 123
FAX Number: (609) 397-2551
E-Mail: DMosso@breencolor.com
Web Site: www.breencolor.com

Manufacturer

BREEN COLOR CONCENTRATES, INC
11 KARI DRIVE
LAMBERTVILLE, NJ 08530 U.S.

Company Contact: Dave Mosso
Telephone Number: (609) 397-8200 x 123
FAX Number: (609) 397-2551
E-Mail: DMosso@breencolor.com
Web Site: www.breencolor.com

Supplier Emergency Contacts & Phone Number
Information: (609) 397-8200

Manufacturer Emergency Contacts & Phone Number
Information: (609) 397-8200

Issue Date: 10/24/2003

Product Name: BLACK VINYL 105
CAS Number: Not Established
EPA Registry Number: N/A
RCRA Number: N/A
MSDS Number: 2
Product Code: BK105

2. Composition/Information On Ingredients

THIS PRODUCT IS NOT CONSIDERED TO BE A HAZARDOUS SUBSTANCE UNDER OSHA'S HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

3. Hazards Identification

Eye Hazards

N/A

Skin Hazards

N/A

Ingestion Hazards

N/A

Inhalation Hazards

N/A

Subchronic (Target Organ Effects)

N/A

Chronic/Carcinogenicity Effects

N/A

Epidemiology

N/A

Teratogenicity (Birth Defects)

N/A

MATERIAL SAFETY DATA SHEET

BLACK VINYL 105

3. Hazards Identification - Continued

Reproductive Effects

N/A

Neurotoxicity

N/A

Mutagenicity (Genetic Effect)

N/A

Signs And Symptoms

N/A

Conditions Aggravated By Exposure

N/A

Conditions Aggravated By Overexposure

N/A

4. First Aid Measures

Eye

FLUSH WITH WATER

Skin

WASH WITH SOAP AND WATER

Ingestion

N/A

Inhalation

N/A

Note To Physician

N/A

5. Fire Fighting Measures

Flash Point: N/A °F

Fire And Explosion Hazards

THERMAL DECOMPOSITION MAY PROCOMBUSTION PRODUCTS INCLUDE CO, CO2 AND CHLORINE GAS. IGNITABLE AND TOXIC GASES WILL BE GENERATED UPON DECOMPOSITION. THERMAL DECOMPOSITION WILL OCCUR AT TEMPERATURES EXCEEDING 350 F, TIME DEPENDENT.

Extinguishing Media

EXTINGUISH WITH DRY CHEMICAL, FOAM OR WATER SPRAY.

Fire Fighting Instructions

WHEN WATER IS USED, IT SHOULD BE APPLIED, IF POSSIBLE, AS A SPRAY FROM A FOGGING NOZZLE.

6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: RECYCLE

7. Handling And Storage

Handling And Storage Precautions

KEEP LIDS ON DRUMS.

MATERIAL SAFETY DATA SHEET
BLACK VINYL 105

7. Handling And Storage - Continued

Handling Precautions

KEEP LIDS ON DRUMS

Storage Precautions

KEEP STORED IN DRY AREA

Work/Hygienic Practices

N/A

8. Exposure Controls/Personal Protection

Engineering Controls

VENTILATION:

LOCAL EXHAUST: NOT NEEDED IN OPEN UNCONFINED AREAS.

MECHANICAL (General): PROVIDE VENTILATION EQUAL TO OUTDOORS.

Eye/Face Protection

SAFETY GLASSES RECOMMENDED.

Skin Protection

UNDER NORMAL CONDITIONS, SKIN PROTECTION SHOULD NOT BE NEEDED BUT ITS ALWAYS A GOOD PRACTICE TO WEAR CLOTHING THAT COVERS YOUR ARMS,LEGS AND GENERAL BODY AREAS THAT MAY COME IN CONTACT WITH ANY NON HAZARDUOS CHEMICALS.

Respiratory Protection

N/A.. ANY DUST FROM THIS PRODUCT IS CONSIDERED A NUISANCE DUST.

Other/General Protection

NONE REQUIRED

9. Physical And Chemical Properties

Appearance

PELLETS

Odor

NONE

Chemical Type: Mixture

Physical State: Solid

10. Stability And Reactivity

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR

Conditions To Avoid (Stability)

NONE KNOWN

Incompatible Materials

N/A

Hazardous Decomposition Products

COMBUSTION PRODUCTS INCLUDE CO, CO2 AND CHLORINE GAS. IGNITABLE AND TOXIC GASES WILL BE GENERATED UPON DECOMPOSITION. THERMAL DECOMPOSITION WILL OCCUR AT TEMPERATURES EXCEEDING 350 F, TIME DEPENDENT.

MATERIAL SAFETY DATA SHEET
BLACK VINYL 105

10. Stability And Reactivity - Continued

Conditions To Avoid (Polymerization)

NONE KNOWN

11. Toxicological Information

Chronic/Carcinogenicity

N/A

Conditions Aggravated By Exposure

N/A

Conditions Aggravated By Overexposure

N/A

12. Ecological Information

No Data Available...

13. Disposal Considerations

COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS

RCRA Information

THIS PRODUCT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE ACCORDING TO RCRA STANDARDS.

14. Transport Information

THIS PRODUCT IS NOT REGULATED DURING TRANSPORT.

15. Regulatory Information

U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. Other Information

Revision/Preparer Information

This MSDS Supersedes A Previous MSDS Dated: 05/08/2003

Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

BREEN COLOR CONCENTRATES, INC

Printed Using MSDS Generator™ 2000

International Wire
Bare Wire Division
12 Masonic Avenue
Camden, NY 13316

Material Safety Data Sheet

Section 1: General Information					
DATE OF PREPARATION: November 16, 2001			HMIS HAZARD RATING:		
MSDS NUMBER: 102			0=Insignificant		
EMERGENCY PHONE NO.: (315) 245-3800			1=Slight		
PRODUCT NAME: TIN COATED COPPER WIRE			2=Moderate		
SINGLE & MULTIPLE STRAND CONSTRUCTION			3=High		
			4=Extreme		
			Health 1		
			Flammability		
			Reactivity 0		
Section 2: Hazardous Ingredients					
Components - Chemical & Common Names Hazardous >1% Carcinogens > 0.1%	CAS Number	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Copper - Fume - Dust	7440-50-8	100	0.1mg/m ³ 1.0mg/m ³	0.2mg/m ³ 1.0mg/m ³	2.0mg/m ³
Tin	7440-31-5	0-10	2.0mg/m ³	2.0mg/m ³	4.0mg/m ³
Non-Hazardous Components TOTAL		100			
Section 3: Physical Properties					
BOILING POINT:	2562C		SPECIFIC GRAVITY:	8.90	
VAPOR PRESSURE:	1mm Hg @ 879 C		MELTING POINT:	998 C	
VAPOR DENSITY:	N/A		EVAPORATION RATE:	N/A	
SOLUBILITY IN WATER:	Insoluble		APPEARANCE AND ODOR:	Metal with white color and no odor	
WATER REACTIVE:	Un-reactive				
Section 4: Fire & Explosion Hazard Data					
FLASH POINT:	N/A		AUTO IGNITION TEMPERATURE	N/A	
LOWER EXPLOSIVE LIMIT	N/A		UPPER EXPLOSIVE LIMIT:	N/A	
EXTINGUISHER MEDIA:	Powdered Dolomite, Sodium Chloride, or Graphite.				
SPECIAL FIRE FIGHTING PROCEDURES:	Fine copper powder is a moderate fire hazard. For copper fires do not use water.				
UNUSUAL FIRE AND EXPLOSIVE HAZARDS:	Copper reacts violently with C ₂ H ₂ , NH ₄ NO ₃ , Bromates, Chlorates, Iodates, Cl ₂ , ClF ₂ , Ethylene Oxide, F ₂ , H ₂ O ₂ , Hydrazine mononitrate, Hydrazoic acid, H ₂ S, K ₂ O ₂ , NaN ₃ , Na ₂ O ₂ , CuNO ₃ , S.				

Omega Wire * Camden Wire * Auburn Wire * Continental Cordage

International Wire
Bare Wire Division
12 Masonic Avenue
Camden, NY 13316

Material Safety Data Sheet, continued

Section 5: Reactivity Hazard Data	
STABILITY:	Stable
INCOMPATIBLE MATERIALS:	1-Bromo 2-Propyne (See Section 4)
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic metal fumes
HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	N/A
Section 6: Health Hazard Data	
PRIMARY ROUTES OF ENTRY:	
Skin	X Inhalation
	Ingestion
	Not Hazardous
CARCINOGEN LISTED IN:	
NTP	IARC Monograph
	OSHA
	X Not Listed
HEALTH HAZARDS:	
Acute:	Metal fume fever
Chronic:	No long term effect reported
Symptoms of Exposure:	Chills, fever, aching muscles, dry mouth & throat headache, nausea, vomiting and diarrhea
Medical Conditions Aggravated by Exposure:	Wilson's disease
EMERGENCY FIRST AID PROCEDURES:	Seek medical attention for further treatment
Eye Contact:	Remove metal fragments & flush eyes with fresh water
Skin Contact:	Remove contaminated clothing. Flush skin with copious amounts of water.
Inhalation:	Remove to fresh air. If breathing has stopped administer CPR
Ingestion:	May be moderately irritating to stomach lining. Induce vomiting if conscious
Section 7: Control and Protective Measures	
RESPIRATORY PROTECTION:	NIOSH/MSHA approved respirator when toxic dust and/or fumes are present
PROTECTIVE GLOVES:	None required
EYE PROTECTION:	Safety glasses required when working with metal products
VENTILATION TO BE USED:	X Yes No
Type used:	Local ventilation
OTHER PROTECTIVE EQUIPMENT:	None required
Hygienic work practices:	Practice good housekeeping and personal hygiene procedures
Section 8: Precautions for Safe Handling and Disposal	
Clean up of spilled materials:	Clean up using method which minimizes copper dust generation
Waster Disposal Methods:	Recycle scrap material in accordance with all local, state & federal regulations
Handling and Storage Precautions:	Avoid storage near incompatible material (see sec. 5). Also avoid conditions which will cause the generation of copper dust.
Other Precautions or Special Hazards:	Wash exposed skin after handling.
International Wire, Bare Wire Division, is not responsible for the misuse or misinterpretation of the information contained in this document.	

Omega Wire * Camden Wire * Auburn Wire * Continental Cordage



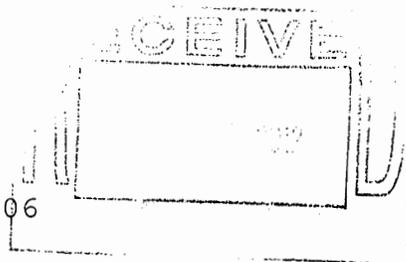
E. Jordan Brookes

Engineered Metals and Plastics

10634 Shoemaker Avenue • Santa Fe Springs, CA 90670-4038 • (562) 968-2100 • Fax (562) 968-2110
 4121 Business Center Drive • Fremont, CA 94538-6355 • (510) 770-1500 • Fax (510) 770-1510

DOCUMENT OF CERTIFICATION

ISO 9001 + AS9120



TO: CUSTOM STAMPING AND MFG INC
 4855 HYTECH DR
 CARSON CITY NV 89706

P/L #: 27876-Release 00
 P/O #: 2540-9 MIKE

QUANTITY	MATERIAL	ALLOY	TEMPER	SPECIFICATION	SHAPE	SIZE	ETC.
	Beryllium Copper Strip					12/05/12	
	17-7-0240-174			TH02			
	0240+-0004 X	2.933	C1741	1/2HT			

1938

PHYSICAL PROPERTIES

Characteristic	Unit	As Shipped	After Heat Treat (if Applicable)	
			Hrs @	Degrees F
Tensile Strength	ksi	107.4-110.9		
Yield Strength	ksi	90.2-94.3		
Elongation	% in 2"	15.0		
Rockwell Hardness		HR30T:76.0		
Grain Size	mm	.008-.010		
Surface Finish	Ra			
Conductivity	% IACS			

CHEMICAL COMPOSITION

Be.	Ni+Co	Ni+Co+F	Ni	Co	Fe	Si.	Al.	Pb.	Sn.	Zn.	Cr.	Cu. = Balance
.34			.02	.52		.01	.03		.01	<.01	<.01	Fe+Si+Al:.06

TRACEABILITY NUMBERS

Part Number	EJB / Heat	M.C.# / Lot
17-7-0240-174	75065	120312A

SPECIFICATIONS & COMPLIANCE

DFAR, RoHS

Melted and Made in the USA

Material made / melted in the USA or a DFARS country unless noted above

EJB #: 75065 M.C. #: 120312A

THIS IS TO CERTIFY THAT THE MATERIAL FURNISHED ON THE ABOVE ORDER WAS PRODUCED IN CONFORMANCE WITH THE REQUIREMENTS OF THE NOTED SPECIFICATION NUMBER.

BY: Carol Ann Sandoval
 CAROL ANN SANDOVAL, QUALITY DEPARTMENT

材質成份表

MATERIAL COMPONENT TABLE

供應商: 鼎興塑膠五金有限公司

NO.	產品型號及名稱	構成材料	材料成份	原材料公司及產地
1	9219-07454-02500	PBT 樹脂 50% 玻纖 30% 防火劑 15% 添加劑 5%(色母或其他添加劑)		SABIC
2	9219-07359-02500	PBT 樹脂 50% 玻纖 30% 防火劑 15% 添加劑 5%(色母或其他添加劑)		SABIC
3	5211-07430-02500	PBT 樹脂 50% 玻纖 30% 防火劑 15% 添加劑 5%(色母或其他添加劑)		SABIC

Notes: The above materials meet the ROHS requirements





MATERIAL COMPONENT TABLE

Supplier (供应商): 上海添锐金属材料有限公司 Shanghai Tianrui Metal Material Co., Ltd. Type named(型号)

No:	产品型号机器名称 Product name Type name	构成材料 Material name	材料成分 Material component	原材料公司及产地 Material company and origin producing area
1	TR Annealing M Round copper pipe Diameter: 9.52mm Thickness: 0.7mm Length: 69m	Copper cathodes Cu 99.99 PCT Min	铜 Cu (copper) ≥99.90 铋 Bi (bismuth) ≤0.002 铅 Pb (Lead) ≤0.005 硫 S (sulphur) ≤0.005 铁 Fe (iron) ≤0.005 砷 As (arsenic) ≤0.005	CHINALCO LUOYANG COPPER CO.,LTD. 中铝洛阳铜业有限公司

备注: 以上材料不含 SONY (SS-00295-3)所禁用的物质!

NOTES: The above material is not contain substances prohibited by sony requirement(SS-00295-3)

质量证明书

上海华瑞不锈钢材料厂
Shanghai Huaru: Stainless Steel Material Factory

CERTIFICATE OF QUALITY

日期:

DATE: 26/12/07/10

炉号 LOT NO.	钢种 STEEL	规格 SIZE (mm)	件数 NUMBER	重量 WEIGHT (kg)	化学成分 CHEMICAL COMPOSITION %										力学实验 TENSILE TEST			晶间腐蚀 CORROSION TEST	
					*1000					*100					* Hv	Ob MPa	O MPa		S %
					C	Mn	P	S	Si	Cr	Ni	Cu	1/4H						
11HR-8657	304	0.25			0.08	2.00	0.045	0.03	1.00	18.35	8.02								

1. 表面质量尺寸均符合标准要求。

The surface quality and dimension all reach the technical requirement.

2. 在检验合格时, 请妥善保管证明书原件, 以备查。

When specification was weight, etc.

产品名称: NAME OF ARTICLE: 不锈钢带
STAINLESS STEEL STRIP
执行标准: EXECUTIVE STANDARD: GB/T 14975-2005



检验员: Inspector: 7. 检验日期: 2007.12.26
检验地点: 检验室
检验设备: 检验设备
检验方法: 检验方法