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ELECTRONICS

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Jameco Part Number 1299454

FEATURES AND SPECIFICATIONS

Features and Benefits

- Positive housing locks to mate with Mini-Fit, Jr. receptacle
- Fully isolated terminals to protect contacts from damage
- Drain hole option available

Reference Information

Product Specification: PS-5556-0001

Packaging: Tray or bag

UL File No.: E29179

CSA File No.: LR19980

TUV License No.: R75142

Mates With: 5557 dual row receptacle

Designed In: Millimeters

Electrical

Voltage: 600V

Current: (Used with 16 AWG)

Circuits	2-3	4-6	7-10	12-24
Amperes-Jr.	9	8	7	6

Electrical (cont'd)

Contact Resistance: 10mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 1000 MΩ min.

Mechanical

Contact Insertion Force: 1.5kg max.

Contact Retention to Housing: 3.0kg min.

Wire Pull-Out Force: 9.0kg min.

Insertion Force to PCB: 5.0kg max.

Mating Force: 0.7kg (1.54 lb) max.

Unmating Force: 0.35kg (0.7 lb) min.

Normal Force: 200g min.

Durability: 30 cycles

Physical

Housing: 6/6 nylon, UL 94V-2 or 94V-0

Contact: Brass or Phosphor Bronze

Plating: Tin, select Gold or overall Gold

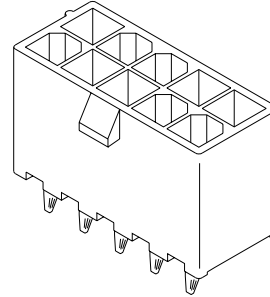
Operating Temperature: -40 to +105°C



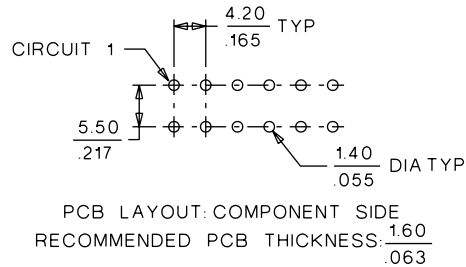
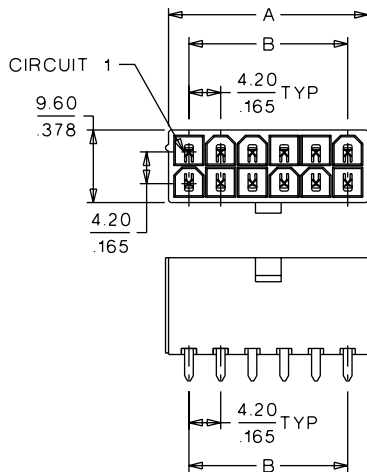
4.20mm (.165") Pitch Mini-Fit, Jr.™ Header

5566

Vertical, Dual Row Without Pegs



CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

With Drain Holes						
Circuits	Order No.				Dimension	
	Tin Plated		Gold Plated (30μ")		A	B
	94V-2	94V-0	94V-2	94V-0		
2	•39-29-3026	•39-31-0020	•39-31-0027	•39-31-0028	5.40 (.210)	
4	•39-29-3046	•39-31-0040	•39-31-0047	•39-31-0048	9.60 (.380)	4.20 (.170)
6	•39-29-3066	•39-31-0060	•39-31-0067	•39-31-0068	13.80 (.540)	8.40 (.330)
8	•39-29-3086	•39-31-0080	•39-31-0087	•39-31-0088	18.00 (.710)	12.60 (.500)
10	•39-29-3106	•39-31-0100	•39-31-0107	•39-31-0108	22.20 (.870)	16.80 (.660)
12	•39-29-3126	•39-31-0120	•39-31-0127	•39-31-0128	26.40 (1.040)	21.00 (.830)
14	•39-29-3146	•39-31-0140	•39-31-0147	•39-31-0148	30.60 (1.200)	25.20 (.990)
16	•39-29-3166	•39-31-0160	•39-31-0167	•39-31-0168	34.80 (1.370)	29.40 (1.160)
20	•39-29-3206		•39-31-0207		43.20 (1.700)	37.80 (1.490)
22	•39-29-3226		•39-31-0227		47.40 (1.870)	42.00 (1.650)

* US Standard Product, available through Molex franchised distributors

Without Drain Holes						
Circuits	Order No.				Dimension	
	Tin Plated		Gold Plated (30μ")		A	B
	94V-2	94V-0	94V-2	94V-0		
2	●39-28-1023	●39-28-8020	●39-29-0023	●39-29-6028	5.40 (.210)	
4	●39-28-1043	●39-28-8040	●39-29-0043	●39-29-6048	9.60 (.380)	4.20 (.170)
6	●39-28-1063	●39-28-8060	●39-29-0063	●39-29-6068	13.80 (.540)	8.40 (.330)
8	●39-28-1083	●39-28-8080	●39-29-0083	●39-29-6088	18.00 (.710)	12.60 (.500)
10	●39-28-1103	●39-28-8100	●39-29-0103	●39-29-6108	22.20 (.870)	16.80 (.660)
12	●39-28-1123	●39-28-8120	●39-29-0123	●39-29-6128	26.40 (1.040)	21.00 (.830)
14	●39-28-1143	●39-28-8140	●39-29-0143	●39-29-6148	30.60 (1.200)	25.20 (.990)
16	●39-28-1163	●39-28-8160	●39-29-0163	●39-29-6168	34.80 (1.370)	29.40 (1.160)
18	●39-28-1183	●39-28-8180	●39-29-0183	●39-29-6188	39.00 (1.540)	33.60 (1.320)
20	●39-28-1203	●39-28-8200	●39-29-0203	●39-29-6208	43.20 (1.700)	37.80 (1.490)
22	●39-28-1223	●39-28-8220	●39-29-0223	●39-29-6228	47.40 (1.870)	42.00 (1.650)
24	●39-28-1243	●39-28-8240	●39-29-0243	●39-29-6248	51.60 (2.030)	46.20 (1.820)



PRODUCT SPECIFICATION

MINI-FIT JR.

1.0 SCOPE

This Product Specification covers performance requirements for the MINI-FIT JR. 4.20 mm (.165 inch) centerline (pitch) printed circuit board (PCB) connector series with Tin or Gold plating, and The MINI-FIT JR. connector series terminated with 16 to 28 AWG wire using Crimp technology with Tin or Gold plating.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBER (S)

<u>PRODUCT NAME</u>	<u>PART NUMBER</u>
Female Crimp Terminal	5556-****
Male Crimp Terminal	5558-****
Receptacle Housing	5557-****
Plug Housing	5559-****
Vertical Header Assembly	5566-****
Right Angle Header Assembly	5569-****

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings for the information on dimensions, materials, platings and markings.

2.3 SAFETY AGENCY APPROVALS

UL File #E29179
CSA Certificate #LR 19980
TUV Certificate #R75142-8

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

See sales drawings and the other sections of this specification for the necessary referenced documents and specifications

4.0 RATINGS

4.1 VOLTAGE

600 Volts AC (RMS) (or 600 Volts DC)

4.2 CURRENT AND APPLICABLE WIRES

Maximum Insulation Diameter and Applicable Wire Gauges	16 AWG: 3.10/. 122 MAXIMUM
	18-24 AWG: 3.10/. 122 MAXIMUM
	22-28 AWG: 1.80/. 071 MAXIMUM

<u>REVISION:</u> A	<u>ECR/ECN INFORMATION:</u> <u>EC No:</u> UCR2000-0382 <u>DATE:</u> 2001 / 09 / 12	<u>TITLE:</u> PRODUCT SPECIFICATION FOR MINI-FIT JR. CONNECTOR SYSTEM	<u>SHEET No.</u> 1 of 5
<u>DOCUMENT NUMBER:</u> PS-5556-001	<u>CREATED / REVISED BY:</u> BANDURA	<u>CHECKED BY:</u> BANDURA	<u>APPROVED BY:</u> MARGULIS



PRODUCT SPECIFICATION

4.2 CURRENT AND APPLICABLE WIRES (continued)

MAXIMUM CURRENT RATING (Amperes)									
Brass					Phosphor Bronze				
Ckt. Size Wire	2 & 3	4 - 6	7 - 10	12 - 24	Ckt. Size Wire	2 & 3	4 - 6	7 - 10	12 - 24
AWG #16	9	8	7	6	AWG #16	8	7	6	5
AWG #18	9	8	7	6	AWG #18	8	7	6	5
AWG #20	7	6	5	5	AWG #20	6	5	4	4
AWG #22	5	4	4	4	AWG #22	4	3	3	3
AWG #24	4	3	3	3	AWG #24	3	2	2	2
AWG #26	3	2	2	2	AWG #26	2	1	1	1
AWG #28	2	1	1	1	AWG #28	1	1	1	1

4.3 TEMPERATURE

Operating: * - 40°C to + 105°C

Nonoperating: - 40°C to + 105°C

*Including 30 °C terminal temperature at rated current

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Contact Resistance (Low Level)	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA. Wire resistance shall be removed from the measured value.	10 milliohms MAXIMUM [initial]
2	Contact Resistance @ Rated Current	Mate connectors: apply a maximum voltage of 20 mV at rated current.	10 milliohms MAXIMUM [initial]
3	Contact Resistance of Wire Termination (Low Level)	Terminate the applicable wire to the terminal and measure wire using a voltage of 20 mV and a current of 100 mA.	5 milliohms MAXIMUM [initial]
4	Insulation Resistance	Mate connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM

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DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
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TEMPLATE FILENAME: PRODUCT_SPEC(SIZE_A)(V.1).DOC



PRODUCT SPECIFICATION

5.1 ELECTRICAL REQUIREMENTS (continued)

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
5	Dielectric Withstanding Voltage	Mate connectors: apply a voltage of 1500 VAC for 1 minute between adjacent terminals and between terminals to ground.	No breakdown. Current leakage < 5 mA
6	Temperature Rise (via Current Cycling)	Mate connectors. Measure the temperature rise at the rated current after 96 hours, during current cycling (45 minutes ON and 15 minutes OFF per hour) for 240 hours, and after final 96-hour steady state.	Temperature rise: +30°C MAXIMUM

5.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Terminal Insertion and Withdrawal Forces	Insert and withdraw terminal (male to female) at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	14.7 N (3.30 lbf) MAXIMUM insertion force & 1.0 N (0.02 lbf) MINIMUM withdrawal force
2	Terminal Retention Force (in Housing)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	30 N (6.74 lbf) MINIMUM retention force
3	Durability	Mate connectors up to 30 cycles at a maximum rate of 10 cycles per minute prior to Environmental Tests.	20 milliohms MAXIMUM
4	Vibration (Random)	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
5	Shock (Mechanical)	Mate connectors and shock at 50 g's with ½ sine wave (11 milliseconds) shocks in the ±X, ±Y, ±Z axes, (18 shocks total).	20 milliohms MAXIMUM & Discontinuity < 1 microsecond
6	Wire Pullout Force (Axial)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm (1 ± ¼ inch).	16 Awg = 88.0 N (19.8 lbf) Min. 18 Awg = 88.0 N (19.8 lbf) Min. 20 Awg = 59.0 N (13.3 lbf) Min. 22 Awg = 39.0 N (8.78 lbf) Min. 24 Awg = 29.0 N (6.52 lbf) Min. 26 Awg = 19.0 N (4.27 lbf) Min. 28 Awg = 9.80 N (2.20 lbf) Min.

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PRODUCT SPECIFICATION

5.2 MECHANICAL REQUIREMENTS (continued)

7	Terminal Insertion Force (into Housing)	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch).	15.0 N (3.37 lbf) MAXIMUM insertion force
8	Normal Force	Apply a perpendicular force.	0.49 N (50 grams) MINIMUM [Gold (noble) plating] OR 1.47 N (150 grams) MINIMUM [Tin (non-noble) plating]
9	PCB Engagement and Separation Forces	Engage and separate a connector at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	49.0 N (11.0 lbf) MAXIMUM insertion force & 10.0 N (2.24 lbf) MINIMUM withdrawal force
10	Panel Insertion and Withdrawal Forces	Insert and withdraw a connector at a rate of 25 ± 6 mm ($1 \pm \frac{1}{4}$ inch) per minute.	225 N (50.7 lbf) MAXIMUM insertion force & 157 N (35.3 lbf) MINIMUM withdrawal force

5.3 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	Thermal Shock	Mate connectors: expose for 5 cycles between temperatures -55 and 105°C; dwell 0.5 hours at each temperature.	20 milliohms MAXIMUM Visual: No Damage Dielectric Strength per 5.1.5 Insulation Resistance per 5.1.4
2	Thermal Aging	Mate connectors; expose to: 96 hours at $105 \pm 2^\circ\text{C}$	20 milliohms MAXIMUM & Visual: No Damage
3	Humidity (Steady State)	Mate connectors: expose to a temperature of $60 \pm 2^\circ\text{C}$ with a relative humidity of 90-95% for 96 hours.	20 milliohms MAXIMUM Dielectric Strength per 5.1.5 Insulation Resistance per 5.1.4 Visual: No Damage
4	Solderability	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)
5	Solder Resistance	Dip connector terminal tails in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: $260 \pm 5^\circ\text{C}$	Visual: No Damage to insulator material

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PRODUCT SPECIFICATION

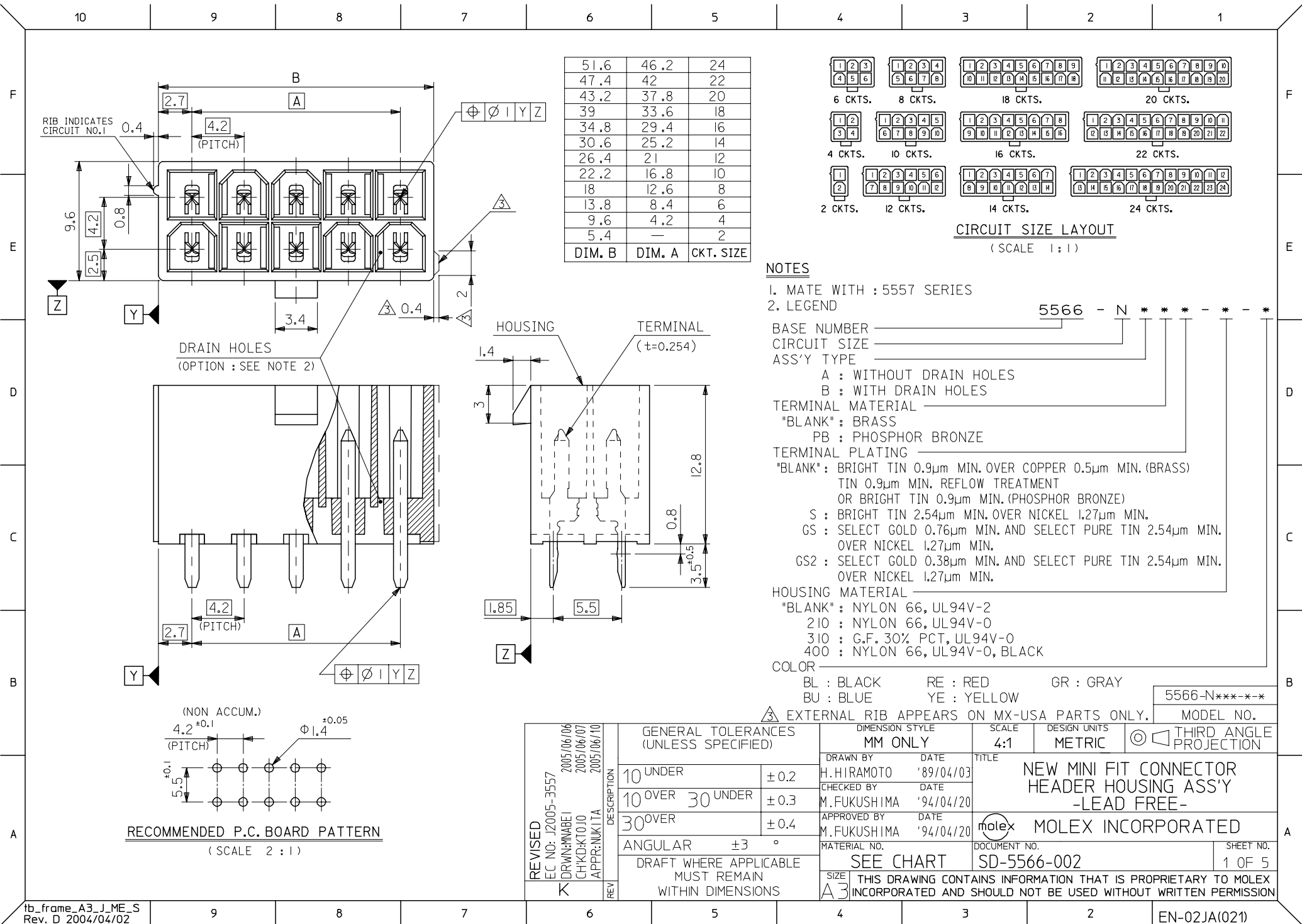
5.3 ENVIRONMENTAL REQUIREMENTS (continued)

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6	Cold Resistance	Mate connectors: Duration: 96 hours; Temperature: $-40 \pm 3^{\circ}\text{C}$	20 milliohms MAXIMUM Visual: No Damage
7	Corrosive Atmosphere: Sulfur Dioxide Gas (SO ₂)	Mate connectors: Duration: 24 hours exposure. Atmosphere: 50 parts per million (ppm) SO ₂ Gas. Temperature: $40 \pm 3^{\circ}\text{C}$	20 milliohms MAXIMUM Visual: No damage

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

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A	EC No: UCR2000-0382 DATE: 2001 / 09 / 12	PRODUCT SPECIFICATION FOR MINI-FIT JR. CONNECTOR SYSTEM	5 of 5
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
PS-5556-001	BANDURA	BANDURA	MARGULIS



	10	9	8	7	6	5	4	3	2	1	
F	NOT TOOLED	5566-24APB-3 IO	NOT TOOLED	5566-24AGS2-3 IO	NOT TOOLED	5566-24AGS-3 IO	NOT TOOLED	5566-24AS-3 IO	NOT TOOLED	5566-24A-3 IO	24
	↑	↑ -22APB-3 IO	↑	↑ -22AGS2-3 IO	↑	↑ -22AGS-3 IO	↑	↑ -22AS-3 IO	↑	↑ -22A-3 IO	22
		-20APB-3 IO		-20AGS2-3 IO		-20AGS-3 IO		-20AS-3 IO		-20A-3 IO	20
		-18APB-3 IO		-18AGS2-3 IO		-18AGS-3 IO		-18AS-3 IO		-18A-3 IO	18
		-16APB-3 IO		-16AGS2-3 IO		-16AGS-3 IO		-16AS-3 IO		-16A-3 IO	16
		-14APB-3 IO		-14AGS2-3 IO		-14AGS-3 IO		-14AS-3 IO		-14A-3 IO	14
		-12APB-3 IO		-12AGS2-3 IO		-12AGS-3 IO		-12AS-3 IO		-12A-3 IO	12
		-10APB-3 IO		-10AGS2-3 IO		-10AGS-3 IO		-10AS-3 IO		-10A-3 IO	10
		-08APB-3 IO		-08AGS2-3 IO		-08AGS-3 IO		-08AS-3 IO		-08A-3 IO	8
		-06APB-3 IO		-06AGS2-3 IO		-06AGS-3 IO		-06AS-3 IO		-06A-3 IO	6
	↓	↓ -04APB-3 IO	↓	↓ -04AGS2-3 IO	↓	↓ -04AGS-3 IO	↓	↓ -04AS-3 IO	↓	↓ -04A-3 IO	4
NOT TOOLED	5566-02APB-3 IO	NOT TOOLED	5566-02AGS2-3 IO	NOT TOOLED	5566-02AGS-3 IO	NOT TOOLED	5566-02AS-3 IO	NOT TOOLED	5566-02A-3 IO	2	
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE	
5566-NAPB-3 IO		5566-NAGS2-3 IO		5566-NAGS-3 IO		5566-NAS-3 IO		5566-NA-3 IO			
39-29-5247	5566-24APB-2 IO	39-30-9245	5566-24AGS2-2 IO	39-29-6248	5566-24AGS-2 IO	39-30-6242	5566-24AS-2 IO	39-28-8240	5566-24A-2 IO	24	
↑ -5227	↑ -22APB-2 IO	↑ -9225	↑ -22AGS2-2 IO	↑ -6228	↑ -22AGS-2 IO	↑ -6222	↑ -22AS-2 IO	↑ -8220	↑ -22A-2 IO	22	
-5207	-20APB-2 IO	-9205	-20AGS2-2 IO	-6208	-20AGS-2 IO	-6202	-20AS-2 IO	-8200	-20A-2 IO	20	
-5187	-18APB-2 IO	-9185	-18AGS2-2 IO	-6188	-18AGS-2 IO	-6182	-18AS-2 IO	-8180	-18A-2 IO	18	
-5167	-16APB-2 IO	-9165	-16AGS2-2 IO	-6168	-16AGS-2 IO	-6162	-16AS-2 IO	-8160	-16A-2 IO	16	
-5147	-14APB-2 IO	-9145	-14AGS2-2 IO	-6148	-14AGS-2 IO	-6142	-14AS-2 IO	-8140	-14A-2 IO	14	
-5127	-12APB-2 IO	-9125	-12AGS2-2 IO	-6128	-12AGS-2 IO	-6122	-12AS-2 IO	-8120	-12A-2 IO	12	
-5107	-10APB-2 IO	-9105	-10AGS2-2 IO	-6108	-10AGS-2 IO	-6102	-10AS-2 IO	-8100	-10A-2 IO	10	
-5087	-08APB-2 IO	-9085	-08AGS2-2 IO	-6088	-08AGS-2 IO	-6082	-08AS-2 IO	-8080	-08A-2 IO	8	
-5067	-06APB-2 IO	-9065	-06AGS2-2 IO	-6068	-06AGS-2 IO	-6062	-06AS-2 IO	-8060	-06A-2 IO	6	
↓ -5047	↓ -04APB-2 IO	↓ -9045	↓ -04AGS2-2 IO	↓ -6048	↓ -04AGS-2 IO	↓ -6042	↓ -04AS-2 IO	↓ -8040	↓ -04A-2 IO	4	
39-29-5027	5566-02APB-2 IO	39-30-9025	5566-02AGS2-2 IO	39-29-6028	5566-02AGS-2 IO	39-30-6022	5566-02AS-2 IO	39-28-8020	5566-02A-2 IO	2	
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE	
5566-NAPB-2 IO		5566-NAGS2-2 IO		5566-NAGS-2 IO		5566-NAS-2 IO		5566-NA-2 IO			
39-29-5246	5566-24APB	39-30-9244	5566-24AGS2	39-29-0243	5566-24AGS	39-30-6241	5566-24AS	39-28-1243	5566-24A	24	
↑ -5226	↑ -22APB	↑ -9224	↑ -22AGS2	↑ -0223	↑ -22AGS	↑ -6221	↑ -22AS	↑ -1223	↑ -22A	22	
-5206	-20APB	-9204	-20AGS2	-0203	-20AGS	-6201	-20AS	-1203	-20A	20	
-5186	-18APB	-9184	-18AGS2	-0183	-18AGS	-6181	-18AS	-1183	-18A	18	
-5166	-16APB	-9164	-16AGS2	-0163	-16AGS	-6161	-16AS	-1163	-16A	16	
-5146	-14APB	-9144	-14AGS2	-0143	-14AGS	-6141	-14AS	-1143	-14A	14	
-5126	-12APB	-9124	-12AGS2	-0123	-12AGS	-6121	-12AS	-1123	-12A	12	
-5106	-10APB	-9104	-10AGS2	-0103	-10AGS	-6101	-10AS	-1103	-10A	10	
-5086	-08APB	-9084	-08AGS2	-0083	-08AGS	-6081	-08AS	-1083	-08A	8	
-5066	-06APB	-9064	-06AGS2	-0063	-06AGS	-6061	-06AS	-1063	-06A	6	
↓ -5046	↓ -04APB	↓ -9044	↓ -04AGS2	↓ -0043	↓ -04AGS	↓ -6041	↓ -04AS	↓ -1043	↓ -04A	4	
39-29-5026	5566-02APB	39-30-9024	5566-02AGS2	39-29-0023	5566-02AGS	39-30-6021	5566-02AS	39-28-1023	5566-02A	2	
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	CKT. SIZE	
5566-NAPB		5566-NAGS2		5566-NAGS		5566-NAS		5566-NA			

REVISED	EC NO: J2005-3557	2005/06/06	2005/06/07	2005/06/10	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
						10 UNDER	± ---	DRAWN BY H. HIRAMOTO	DATE '89/04/03	TITLE NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-		
						10 OVER 30 UNDER	± ---	CHECKED BY M. FUKUSHIMA	DATE '94/04/20			
						30 OVER	± ---	APPROVED BY M. FUKUSHIMA	DATE '94/04/20	MOLEX INCORPORATED		
						ANGULAR	± --- °	MATERIAL NO.	DOCUMENT NO.			
K	DRWN: NABE1	CHKD: KTOJO	APPR: NUKITA	REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-5566-002		SHEET NO. 2 OF 5
								THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

tb_frame_A3_J_ME_S Rev. D 2004/04/02	9	8	7	6	5	4	3	2	EN-02JA(021)	
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	10	9	8	7	6	5	4	3	2	1	
F	NOT TOOLED	5566-24BGS2-3 IO	NOT TOOLED	5566-24BGS-3 IO	NOT TOOLED	5566-24BS-3 IO	NOT TOOLED	5566-24B-3 IO	NOT TOOLED	5566-24APBS-3 IO	24
	↑	↑ -22BGS2-3 IO	↑	↑ -22BGS-3 IO	↑	↑ -22BS-3 IO	↑	↑ -22B-3 IO	↑	↑ -22APBS-3 IO	22
		-20BGS2-3 IO		-20BGS-3 IO		-20BS-3 IO		-20B-3 IO		-20APBS-3 IO	20
		-18BGS2-3 IO		-18BGS-3 IO		-18BS-3 IO		-18B-3 IO		-18APBS-3 IO	18
		-16BGS2-3 IO		-16BGS-3 IO		-16BS-3 IO		-16B-3 IO		-16APBS-3 IO	16
		-14BGS2-3 IO		-14BGS-3 IO		-14BS-3 IO		-14B-3 IO		-14APBS-3 IO	14
		-12BGS2-3 IO		-12BGS-3 IO		-12BS-3 IO		-12B-3 IO		-12APBS-3 IO	12
		-10BGS2-3 IO		-10BGS-3 IO		-10BS-3 IO		-10B-3 IO		-10APBS-3 IO	10
		-08BGS2-3 IO		-08BGS-3 IO		-08BS-3 IO		-08B-3 IO		-08APBS-3 IO	8
		-06BGS2-3 IO		-06BGS-3 IO		-06BS-3 IO		-06B-3 IO		-06APBS-3 IO	6
	↓	↓ -04BGS2-3 IO	↓	↓ -04BGS-3 IO	↓	↓ -04BS-3 IO	↓	↓ -04B-3 IO	↓	↓ -04APBS-3 IO	4
NOT TOOLED	5566-02BGS2-3 IO	NOT TOOLED	5566-02BGS-3 IO	NOT TOOLED	5566-02BS-3 IO	NOT TOOLED	5566-02B-3 IO	NOT TOOLED	5566-02APBS-3 IO	2	
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.		
5566-NBGS2-3 IO		5566-NBGS-3 IO		5566-NBS-3 IO		5566-NB-3 IO		5566-NAPBS-3 IO		CKT. SIZE	
39-30-9247	5566-24BGS2-2 IO	39-31-0248	5566-24BGS-2 IO	39-31-0242	5566-24BS-2 IO	39-31-0240	5566-24B-2 IO	39-30-6244	5566-24APBS-2 IO	24	
↑ -9227	↑ -22BGS2-2 IO	↑ -0228	↑ -22BGS-2 IO	↑ -0222	↑ -22BS-2 IO	↑ -0220	↑ -22B-2 IO	↑ -6224	↑ -22APBS-2 IO	22	
-9207	-20BGS2-2 IO	-0208	-20BGS-2 IO	-0202	-20BS-2 IO	-0200	-20B-2 IO	-6204	-20APBS-2 IO	20	
-9187	-18BGS2-2 IO	-0188	-18BGS-2 IO	-0182	-18BS-2 IO	-0180	-18B-2 IO	-6184	-18APBS-2 IO	18	
-9167	-16BGS2-2 IO	-0168	-16BGS-2 IO	-0162	-16BS-2 IO	-0160	-16B-2 IO	-6164	-16APBS-2 IO	16	
-9147	-14BGS2-2 IO	-0148	-14BGS-2 IO	-0142	-14BS-2 IO	-0140	-14B-2 IO	-6144	-14APBS-2 IO	14	
-9127	-12BGS2-2 IO	-0128	-12BGS-2 IO	-0122	-12BS-2 IO	-0120	-12B-2 IO	-6124	-12APBS-2 IO	12	
-9107	-10BGS2-2 IO	-0108	-10BGS-2 IO	-0102	-10BS-2 IO	-0100	-10B-2 IO	-6104	-10APBS-2 IO	10	
-9087	-08BGS2-2 IO	-0088	-08BGS-2 IO	-0082	-08BS-2 IO	-0080	-08B-2 IO	-6084	-08APBS-2 IO	8	
-9067	-06BGS2-2 IO	-0068	-06BGS-2 IO	-0062	-06BS-2 IO	-0060	-06B-2 IO	-6064	-06APBS-2 IO	6	
↓ -9047	↓ -04BGS2-2 IO	↓ -0048	↓ -04BGS-2 IO	↓ -0042	↓ -04BS-2 IO	↓ -0040	↓ -04B-2 IO	↓ -6044	↓ -04APBS-2 IO	4	
39-30-9027	5566-02BGS2-2 IO	39-31-0028	5566-02BGS-2 IO	39-31-0022	5566-02BS-2 IO	39-31-0020	5566-02B-2 IO	39-30-6024	5566-02APBS-2 IO	2	
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.		
5566-NBGS2-2 IO		5566-NBGS-2 IO		5566-NBS-2 IO		5566-NB-2 IO		5566-NAPBS-2 IO		CKT. SIZE	
39-30-9246	5566-24BGS2	39-31-0247	5566-24BGS	39-31-0241	5566-24BS	39-29-3246	5566-24B	39-30-6243	5566-24APBS	24	
↑ -9226	↑ -22BGS2	↑ -0227	↑ -22BGS	↑ -0221	↑ -22BS	↑ -3226	↑ -22B	↑ -6223	↑ -22APBS	22	
-9206	-20BGS2	-0207	-20BGS	-0201	-20BS	-3206	-20B	-6203	-20APBS	20	
-9186	-18BGS2	-0187	-18BGS	-0181	-18BS	-3186	-18B	-6183	-18APBS	18	
-9166	-16BGS2	-0164	-16BGS	-0161	-16BS	-3166	-16B	-6163	-16APBS	16	
-9146	-14BGS2	-0147	-14BGS	-0141	-14BS	-3146	-14B	-6143	-14APBS	14	
-9126	-12BGS2	-0127	-12BGS	-0121	-12BS	-3126	-12B	-6123	-12APBS	12	
-9106	-10BGS2	-0107	-10BGS	-0101	-10BS	-3106	-10B	-6103	-10APBS	10	
-9086	-08BGS2	-0087	-08BGS	-0081	-08BS	-3086	-08B	-6083	-08APBS	8	
-9066	-06BGS2	-0067	-06BGS	-0061	-06BS	-3066	-06B	-6063	-06APBS	6	
↓ -9046	↓ -04BGS2	↓ -0047	↓ -04BGS	↓ -0041	↓ -04BS	↓ -3046	↓ -04B	↓ -6043	↓ -04APBS	4	
39-30-9026	5566-02BGS2	39-31-0027	5566-02BGS	39-31-0021	5566-02BS	39-29-3026	5566-02B	39-30-6023	5566-02APBS	2	
EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.	EDP NO.	ENG. NO.		
5566-NBGS2		5566-NBGS		5566-NBS		5566-NB		5566-NAPBS		CKT. SIZE	

REVISED	EC NO: J2005-3557	2005/06/06	DRM:NMABEI	2005/06/07	CHKD:K10 JO	2005/06/10	APPR:NUKI TA	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
								DESCRIPTION	10 UNDER	± ---	DRAWN BY H. HIRAMOTO	DATE '89/04/03	NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE- MOLEX INCORPORATED			
									10 OVER 30 UNDER	± ---	CHECKED BY M. FUKUSHIMA	DATE '94/04/20				
									30 OVER	± ---	APPROVED BY M. FUKUSHIMA	DATE '94/04/20				
									ANGULAR ± --- °		MATERIAL NO.	DOCUMENT NO.				
REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE CHART		SD-5566-002				3 OF 5					
K								SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

tb_frame_A3_J_ME_S Rev. D 2004/04/02	9	8	7	6	5	4	3	2	EN-02JA(021)	
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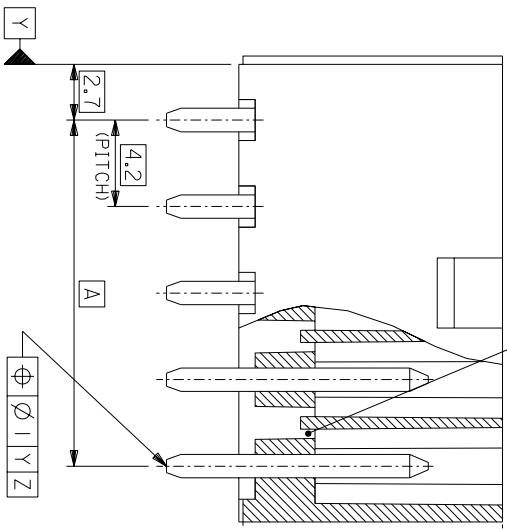
	10	9	8	7	6	5	4	3	2	1														
F							NOT TOOLED	5566-24BPBS-3 IO	NOT TOOLED	5566-24BPB-3 IO	24	F												
							▲	▲	▲	▲	22													
								-20BPBS-3 IO		-20BPB-3 IO	20													
								-18BPBS-3 IO		-18BPB-3 IO	18													
								-16BPBS-3 IO		-16BPB-3 IO	16													
								-14BPBS-3 IO		-14BPB-3 IO	14													
								-12BPBS-3 IO		-12BPB-3 IO	12													
								-10BPBS-3 IO		-10BPB-3 IO	10													
								-08BPBS-3 IO		-08BPB-3 IO	8													
								-06BPBS-3 IO		-06BPB-3 IO	6													
E							▼	▼	▼	▼	4	E												
							NOT TOOLED	5566-02BPBS-3 IO	NOT TOOLED	5566-02BPB-3 IO	2													
							EDP NO.	ENG. NO	EDP NO.	ENG. NO	CKT. SIZE													
							5566-NBPBS-3 IO		5566-NBPB-3 IO															
							39-31-0246	5566-24BPBS-2 IO	39-31-0244	5566-24BPB-2 IO	24													
							▲ -0226	▲ -22BPBS-2 IO	▲ -0224	▲ -22BPB-2 IO	22													
							-0206	-20BPBS-2 IO	-0204	-20BPB-2 IO	20													
							-0186	-18BPBS-2 IO	-0184	-18BPB-2 IO	18													
							-0166	-16BPBS-2 IO	-0164	-16BPB-2 IO	16													
							-0146	-14BPBS-2 IO	-0144	-14BPB-2 IO	14													
D							-0126	-12BPBS-2 IO	-0124	-12BPB-2 IO	12	D												
							-0106	-10BPBS-2 IO	-0104	-10BPB-2 IO	10													
							-0086	-08BPBS-2 IO	-0084	-08BPB-2 IO	8													
							-0066	-06BPBS-2 IO	-0064	-06BPB-2 IO	6													
							▼ -0046	▼ -04BPBS-2 IO	▼ -0044	▼ -04BPB-2 IO	4													
							39-31-0026	5566-02BPBS-2 IO	39-31-0024	5566-02BPB-2 IO	2													
							EDP NO.	ENG. NO	EDP NO.	ENG. NO	CKT. SIZE													
							5566-NBPBS-2 IO		5566-NBPB-2 IO															
							39-35-0248	5566-24A-400	39-31-0245	5566-24BPBS	39-31-0243		5566-24BPB	24										
							▲ -0228	▲ -22A-400	▲ -0225	▲ -22BPBS	▲ -0223		▲ -22BPB	22										
C							-0208	-20A-400	-0205	-20BPBS	-0203	-20BPB	20	C										
							-0188	-18A-400	-0185	-18BPBS	-0183	-18BPB	18											
							-0168	-16A-400	-0165	-16BPBS	-0163	-16BPB	16											
							-0148	-14A-400	-0145	-14BPBS	-0143	-14BPB	14											
							-0128	-12A-400	-0125	-12BPBS	-0123	-12BPB	12											
							-0108	-10A-400	-0105	-10BPBS	-0103	-10BPB	10											
							-0088	-08A-400	-0085	-08BPBS	-0083	-08BPB	8											
							-0068	-06A-400	-0065	-06BPBS	-0063	-06BPB	6											
							▼ -0048	▼ -04A-400	▼ -0045	▼ -04BPBS	▼ -0043	▼ -04BPB	4											
							39-35-0028	5566-02A-400	39-31-0025	5566-02BPBS	39-31-0023	5566-02BPB	2											
B							EDP NO.	ENG. NO	EDP NO.	ENG. NO	CKT. SIZE	B												
							5566-NA-400		5566-NBPBS		5566-NBPB													
A							REVISED EC NO: J2005-3557 DRWN: NABEI CHKD: KTOJO APPR: NUKITA		DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION		NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE- MOLEX INCORPORATED		SHEET NO. 4 OF 5	
											10 UNDER		± ---	DRAWN BY H. HIRAMOTO		DATE '89/04/03								
											10 OVER 30 UNDER		± ---	CHECKED BY M. FUKUSHIMA		DATE '94/04/20								
											30 OVER		± ---	APPROVED BY M. FUKUSHIMA		DATE '94/04/20								
											ANGULAR		± --- °	MATERIAL NO.		DOCUMENT NO.								
											DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-5566-002									
											SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
											K													
1b_frame_A3_J_ME_S Rev. D 2004/04/02		9	8	7	6	5	4	3	2	EN-02JA(021)														

	10	9	8	7	6	5	4	3	2	1	
F											F
E											E
D											D
C											C
B											B
A											A

										24
										22
										20
										18
						39-33-3169	5566-16A-210-BU	39-33-3168	5566-16A-210-BL	16
										14
										12
			39-33-4100	5566-10A-210-RE	39-33-3109	5566-10A-210-BU	39-33-3108	5566-10A-210-BL		10
							39-33-3088	5566-08A-210-BL		8
										6
			39-33-4040	5566-04A-210-RE	39-33-3049	5566-04A-210-BU				4
39-34-5023	5566-02A-210-YE	39-33-4020	5566-02A-210-RE	39-33-3029	5566-02A-210-BU	39-33-3028	5566-02A-210-BL			2
EDP. NO.	ENG. NO.	EDP. NO.	ENG. NO.	EDP. NO.	ENG. NO.	EDP. NO.	ENG. NO.	EDP. NO.	ENG. NO.	CKT. SIZE
5566-NA-210-YE		5566-NA-210-RE		5566-NA-210-BU		5566-NA-210-BL				
										24
										22
										20
										18
										16
39-33-3145	5566-14A-GR			39-33-3166	5566-16A-RE	39-33-3164	5566-16A-BU			14
				39-33-3126	5566-12A-RE	39-33-3124	5566-12A-BU	39-33-3143	5566-14A-BL	12
				39-33-3106	5566-10A-RE	39-33-3104	5566-10A-BU			10
		39-33-3087	5566-08A-YE	39-33-3086	5566-08A-RE	39-33-3084	5566-08A-BU	39-33-3083	5566-08A-BL	8
		39-33-3067	5566-06A-YE	39-33-3066	5566-06A-RE	39-33-3064	5566-06A-BU	39-33-3063	5566-06A-BL	6
				39-33-3046	5566-04A-RE	39-33-3044	5566-04A-BU	39-33-3043	5566-04A-BL	4
				39-33-3026	5566-02A-RE	39-33-3024	5566-02A-BU	39-33-3023	5566-02A-BL	2
EDP. NO.	ENG. NO.	EDP. NO.	ENG. NO.	EDP. NO.	ENG. NO.	EDP. NO.	ENG. NO.	EDP. NO.	ENG. NO.	CKT. SIZE
5566-NA-GR		5566-NA-YE		5566-NA-RE		5566-NA-BU		5566-NA-BL		

REVISED EC NO.: J2005-3557 DRAWN:NABEI CHKD:K10JO APPR:NUKI TA K	2005/06/06 2005/06/07 2005/06/10	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			10 UNDER	± ---	DRAWN BY H.HIRAMOTO	DATE '89/04/03	NEW MINI FIT CONNECTOR HEADER HOUSING ASS'Y -LEAD FREE-		
			10 OVER 30 UNDER	± ---	CHECKED BY M.FUKUSHIMA	DATE '94/04/20			
			30 OVER	± ---	APPROVED BY M.FUKUSHIMA	DATE '94/04/20			
			ANGULAR ±--- °		MATERIAL NO.	DOCUMENT NO. SD-5566-002		SHEET NO. 5 OF 5	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

tb_frame_A3_J_ME_S Rev. D 2004/04/02	9	8	7	6	5	4	3	2	EN-02JA(021)
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[illegible]

1. MATE WITH : 5557 SERIES

2. LEGEND

BASE NUMBER
CIRCUIT SIZE
ASS'Y TYPE

A : WITHOUT DRAIN HOLES

B : WITH DRAIN HOLES

TERMINAL MATERIAL

"BLANK": BRASS

PB : PHOSPHOR BRONZE

TERMINAL PLATING

"BLANK": BRIGHT TIN 0.9µm MIN. OVER COPPER 0.5µm MIN. (BRASS)

TIN 0.9μm MIN. REFLOW TREATMENT

OR BRIGHT TIN $0.9\mu\text{m}$ MIN. (PHOSPHOR BRONZE)

S : BRIGHT TIN 2.54 μ m MIN.OVER NICKEL 1.27 μ m MIN.

GS : SELECT GOLD 0.76μm MIN

OVER NICKEL 1.27 μ m MIN.

GS2 : SELECT GOLD 0.38μm MIN. AND SELECT PURE TIN 2.54μm MIN.

OVER NICKEL 1.27 μm MIN.

HOUSING MATERIAL _____

"BLANK": NYLON 66, UL94V-2

210 : NYLON 66, UL94V-0

310 : G.F. 30% PCT, UL94V-0

400 : NYLON 66, UL94V-0, BLACK

EXTERNAL RIB APPEARS ON MX-USA PARTS ONLY.

5566-N*****		J	REVISED(2004/4/6)	M.N	K.T	9/5/23	材料	MOLEX-JAPAN CO.,L.TD.	
MODEL NO.		H	REVISED (J40308)	H.H	M.F	9/4/19	MATERIAL	モレックス株式会社	
角度 ANGLE		G	REVISED (J10190)	H.H	Y.Y	9/3/7	仕上り FINISH	REVISE ONLY ON CAD SYSTEM	
30 以上		F	REVISED (J00638)	H.H	Y.Y	9/6/8	適用電線範囲 WIRE RANGE	TITLE 名称	
10 以上 30 UNDER		E	REVISED (J90681)	H.H	Y.Y	9/8/23	密着外径 INS. RANGE	NEW MINI FIT CONNECTOR	
10 UNDER		D	REVISED & REDRAWN (J90237)	H.H	Y.Y	9/9/43	DRAWN BY 9/9/43 H.HIRAMOTO	HEADER HOUSING ASS'Y	
一般公差 GENERAL TOLERANCES		記号 LTR	変更内容 REVISION RECORD	DR.	DATE	APPD BY 9/4/20 M.F. UKUSHIMA	CHKD BY 9/4/20 M.F. UKUSHIMA	-LEAD FREE-	
				DR.	DATE	APPD BY 9/4/20 M.F. UKUSHIMA	CHKD BY 9/4/20 M.F. UKUSHIMA	DWG. NO.	
				DR.	DATE	APPD BY 9/4/20 M.F. UKUSHIMA	CHKD BY 9/4/20 M.F. UKUSHIMA	SHEET 1 OF 4	
				DR.	DATE	APPD BY 9/4/20 M.F. UKUSHIMA	CHKD BY 9/4/20 M.F. UKUSHIMA	REV	
				DR.	DATE	APPD BY 9/4/20 M.F. UKUSHIMA	CHKD BY 9/4/20 M.F. UKUSHIMA	SD-5566-N*****	

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX/JAPAN AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION
 本図面は日本モレックス (株) の所有する情報を含むもので当社の許可なく複製を禁止する。
 EN-01C(032)MXJ-32

DWG. NO.
SD-5566-N****-

MM DIMENSIONS IN METRIC DO NOT SCALE DRAWING

NOT TOOLED		5566-24BPS-310	NOT TOOLED	5566-24BPB-310	24			
	▲	-22BPS-310		▲	-22BPB-310	22		
		-20BPS-310			-20BPB-310	20		
		-18BPS-310			-18BPB-310	18		
		-16BPS-310			-16BPB-310	16		
		-14BPS-310			-14BPB-310	14		
		-12BPS-310			-12BPB-310	12		
		-10BPS-310			-10BPB-310	10		
		-08BPS-310			-08BPB-310	8		
		-06BPS-310			-06BPB-310	6		
	▼	-04BPS-310		▼	-04BPB-310	4		
NOT TOOLED		5566-02BPS-310	NOT TOOLED	5566-02BPB-310	2			
EDP NO.		ENG. NO	EDP NO.		ENG. NO	CKT. SIZE		
5566-NBPS-310		5566-NBPB-310						
39-31-0246	5566-24BPS-210	39-31-0244	5566-24BPB-210	24				
▲	-0226	▲	-0224	▲	-22BPB-210	22		
	-0206		-0204		-20BPB-210	20		
	-0186		-0184		-18BPB-210	18		
	-0166		-0164		-16BPB-210	16		
	-0146		-0144		-14BPB-210	14		
	-0126		-0124		-12BPB-210	12		
	-0106		-0104		-10BPB-210	10		
	-0086		-0084		-08BPB-210	8		
	-0066		-0064		-06BPB-210	6		
▼	-0046	▼	-0044	▼	-04BPB-210	4		
39-31-0026	5566-02BPS-210	39-31-0024	5566-02BPB-210	2				
EDP NO.		ENG. NO	EDP NO.		ENG. NO	CKT. SIZE		
5566-NBPS-210		5566-NBPB-210						
39-35-0248	5566-24A-400	39-31-0245	5566-24BPS	39-31-0243	5566-24BPB	24		
▲	-0228	▲	-0225	▲	-0223	▲	-22BPB	22
	-0208		-0205		-0203		-20BPB	20
	-0188		-0185		-0183		-18BPB	18
	-0168		-0165		-0163		-16BPB	16
	-0148		-0145		-0143		-14BPB	14
	-0128		-0125		-0123		-12BPB	12
	-0108		-0105		-0103		-10BPB	10
	-0088		-0085		-0083		-08BPB	8
	-0068		-0065		-0063		-06BPB	6
▼	-0048	▼	-0045	▼	-0043	▼	-04BPB	4
39-35-0028	5566-02A-400	39-31-0025	5566-02BPS	39-31-0023	5566-02BPB	2		
EDP NO.		ENG. NO	EDP NO.		ENG. NO	CKT. SIZE		
5566-NA-400		5566-NBPS		5566-NBPB				

		24		材料 MATERIAL		MOLEX-JAPAN CO.,LTD. molex 日本モリスツクス株式会社	
5566-N****-	J	SEE SHEET 1 OF 4	M.N.	04/5/73	SEE NOTE 2	REVISE ONLY ON CAD SYSTEM	
MODEL NO.	H	SEE SHEET 1 OF 4	H.H.	94/4/9	SEE NOTE 2	TITLE 名称	
	G	SEE SHEET 1 OF 4	M.F	FINISH		NEW MINI FIT CONNECTOR	
角度 ANGLE			H.H.	適用電線範囲		HEADER HOUSING ASS'Y	
30°以上	F	SEE SHEET 1 OF 4	H.H.	93/3/7	—	-LEAD FREE-	
30°以上	E	SEE SHEET 1 OF 4	H.H.	90/6/8	被覆外径	DWG. NO.	
10°以上	D	SEE SHEET 1 OF 4	H.H.	93/8/75	INS. RANGE	SHEET 4 OF 4	
10°以上			H.H.	93/4/3	INS. RANGE	REV	
10°以上			H.H.	93/4/3	INS. RANGE	J	
10°以上			H.H.	93/4/3	INS. RANGE	SD-5566-N****-	
10°以上			H.H.	93/4/3	INS. RANGE		
10°以上			H.H.	93/4/3	INS. RANGE		
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