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ELECTRONICS

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Jameco Part Number 798411

FEATURES AND SPECIFICATIONS

Features and Benefits

- Wire-to-wire plug for panel-mounted or free-hanging applications
- Available with and without panel mounting ears
- Positive housing locks to mate with Mini-Fit, Jr. receptacle
- Fully isolated terminals to protect contacts from damage
- Uses standard Mini-Fit series terminals

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](#) single row receptacleUse With: [5558](#), [30490](#) or 44478 terminals

Designed In: Millimeters

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

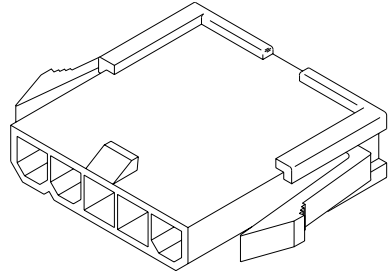
Physical

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

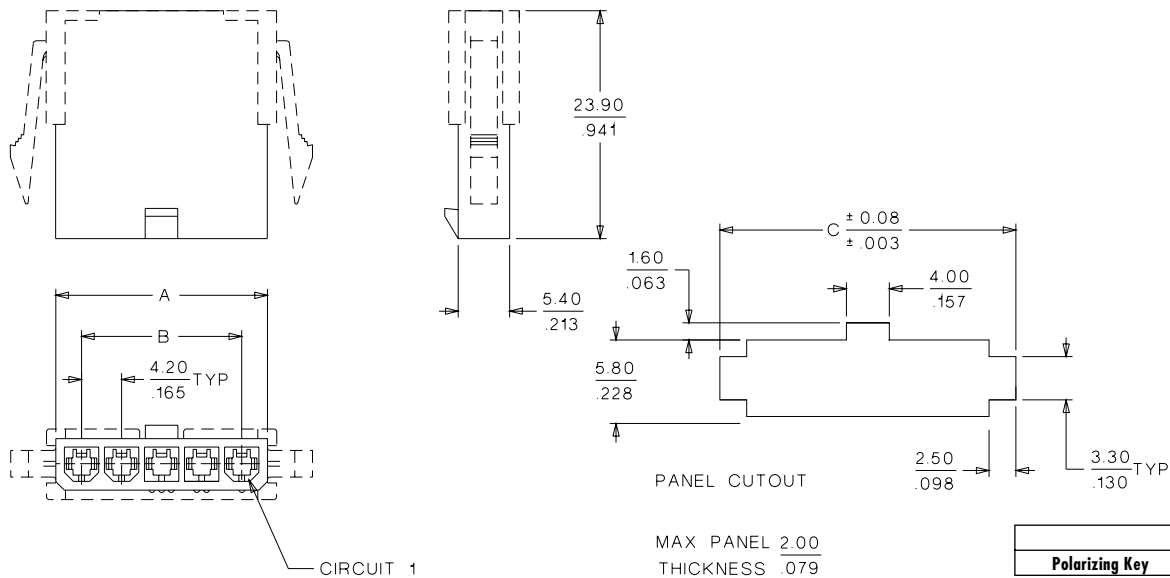
Contact: Brass or Phosphor Bronze

Plating: Tin, select Gold or overall Gold

Operating Temperature: -40 to +105°C


**4.20mm (.165") Pitch
Mini-Fit, Jr.™
Plug**
5559**Single Row, With and Without Panel Mount Ears**

CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.				Dimension		
	Panel Mount		Free Hanging		A	B	C
	94V-2	94V-0	94V-2	94V-0			
3*	• 39-01-4032	• 39-01-4033	• 39-01-4036	• 39-01-4037	13.80 (.543)	8.40 (.331)	19.20 (.756)
4			• 39-01-4046		18.00 (.709)	12.60 (.496)	23.40 (.921)
5	• 39-01-4052	• 39-01-4053	• 39-01-4056	• 39-01-4057	22.20 (.847)	16.80 (.661)	27.60 (1.087)

• US Standard Product, available through Molex franchised distributors

* 3-circuit plug designed for first-mate/last-break applications



PRODUCT SPECIFICATION

MINI-FIT HCS (High Current System)

1.0 SCOPE

This Product Specification covers performance requirements for the MINI-FIT HCS 4.20 mm (.165 inch) centerline (pitch) printed circuit board (PCB) connector series with Tin or Gold plating, and The MINI-FIT HCS 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 (Mini-Fit HCS)	44476-****
Male Crimp Terminal (Mini-Fit HCS)	44478-****
Receptacle Housing (Mini-Fit Jr.)	5557-****
Receptacle Housing (Mini-Fit PTA)	30067-****
Receptacle Housing (Mini-Fit BMI)	42474-****
Receptacle Header Assembly (Mini-Fit BMI)	44475-****
Plug Housing (Mini-Fit Jr.)	5559-****
Plug Housing (Mini-Fit TPA)	30068-****
Plug Housing (Mini-Fit BMI)	42475-****
Vertical Header Assembly (Mini-Fit HCS)	44472-****
Vertical Header Assembly (Mini-Fit TPA)	44473-****
Vertical Header Assembly (Mini-Fit (BMI)	44474-****
Vertical Header Assembly (Mini-Fit SMC)	44068-****
Right Angle Header Assembly (Mini-Fit Jr.)	5569-****
Right Angle Header Assembly (Mini-Fit TPA)	30070-****
Right Angle Header Assembly (Mini-Fit BMI)	42404-****
Right Angle Header Assembly (Mini-Fit SMC)	43810-****

Mating the Mini-Fit receptacles to Mini-Fit plugs or Mini-Fit headers using 44476 or 44478 terminals allow it to qualify as a Mini-Fit HCS system.

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

<u>REVISION:</u> D	<u>ECR/ECN INFORMATION:</u> <u>EC No:</u> UCP2003-2604 <u>DATE:</u> 2003 / 06 / 12	<u>TITLE:</u> PRODUCT SPECIFICATION FOR MINI-FIT HCS CONNECTOR SYSTEM	<u>SHEET No.</u> 1 of 5
<u>DOCUMENT NUMBER:</u> PS-44476-001	<u>CREATED / REVISED BY:</u> C.STEWART	<u>CHECKED BY:</u> Y. MARGULIS	<u>APPROVED BY:</u> Y. MARGULIS



PRODUCT SPECIFICATION

NGS

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			
MAXIMUM CURRENT RATING (Amperes)				
Ckt. Size Wire	2 & 3	4 - 6	7 - 10	12 - 24
AWG #16	12	11	10	9
AWG #18	12	11	10	9
AWG #20	9	9	8	8

4.3 TEMPERATURE

Operating: * - 40°C to + 105°C

Nonoperating: - 40°C to + 105°C

**Including 30°C terminal temperature at rated current*

4.0 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]

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PS-44476-001	C.STEWART	Y. MARGULIS	Y. MARGULIS



PRODUCT SPECIFICATION

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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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 Mate and Unmate 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

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<u>DOCUMENT NUMBER:</u> PS-44476-001		<u>CREATED / REVISED BY:</u> C.STEWART	<u>CHECKED BY:</u> Y. MARGULIS
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PRODUCT SPECIFICATION

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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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 ± ¼ 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 ± ¼ 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 ± ¼ 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 ± 2°C	20 milliohms MAXIMUM & Visual: No Damage
3	Humidity (Steady State)	Mate connectors: expose to a temperature of 60 ± 2°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

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DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
PS-44476-001	C.STEWART	Y. MARGULIS	Y. MARGULIS



PRODUCT SPECIFICATION

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: 235 ± 5°C	Visual: No Damage to insulator material

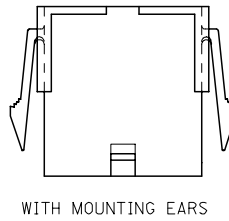
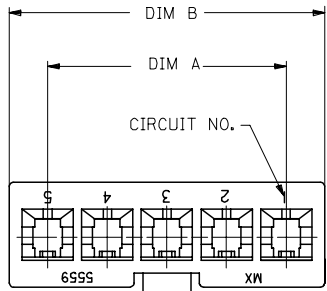
5.3 ENVIRONMENTAL REQUIREMENTS (continued)

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
6	Cold Resistance	Mate connectors: Duration: 96 hours; Temperature: -40 ± 3°C	20 milliohms MAXIMUM Visual: No Damage
7	Corrosive Atmosphere: Sulfur Dioxide Gas (SO₂)	Mate connectors: Duration: 24 hours exposure. Atmosphere: 50 parts per million (ppm) SO ₂ Gas. Temperature: 40 ± 3°C	20 milliohms MAXIMUM Visual: No damage

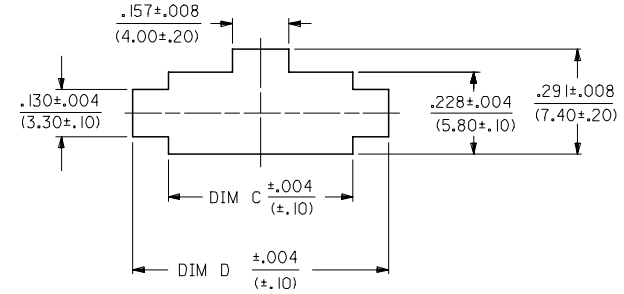
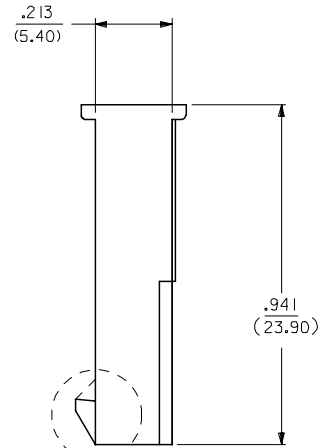
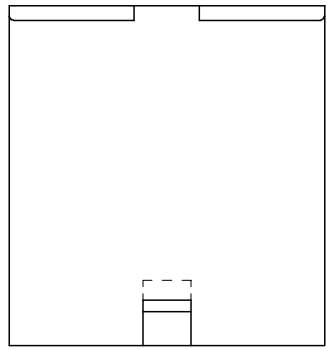
5.0 PACKAGING

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

REVISION: D	ECR/ECN INFORMATION: EC No: UCP2003-2604 DATE: 2003 / 06 / 12	TITLE: PRODUCT SPECIFICATION FOR MINI-FIT HCS CONNECTOR SYSTEM	SHEET No. 5 of 5
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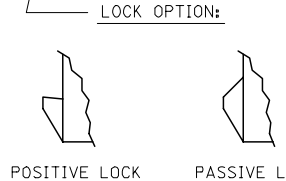
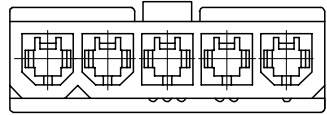
CKT SIZE	DIM A	DIM B	DIM C	DIM D
4	.496 (12.60)	.709 (18.00)	.724 (18.40)	.921 (23.40)
5	.661 (16.80)	.874 (22.20)	.890 (22.60)	1.087 (27.60)
6	.827 (21.00)	1.039 (26.40)	1.055 (26.80)	1.252 (31.80)
7	.992 (25.20)	1.205 (30.60)	1.220 (31.00)	1.417 (36.00)
8	1.157 (29.40)	1.370 (34.80)	1.386 (35.20)	1.583 (40.20)
9	1.323 (33.60)	1.535 (39.00)	1.551 (39.40)	1.748 (44.40)
10	1.488 (37.80)	1.701 (43.20)	1.717 (43.60)	1.913 (48.60)
11	1.654 (42.00)	1.866 (47.40)	1.882 (47.80)	2.079 (52.80)
12	1.819 (46.20)	2.031 (51.60)	2.047 (52.00)	2.244 (57.00)



RECOMMENDED PANEL CUT-OUT
(SEE NOTES 5 & 6)

NOTES:

1. MATERIAL; BLANK=NYLON 6/6, UL 94V-2, COLOR: NATURAL.
210=NYLON 6/6, UL 94V-0, COLOR: NATURAL.
210-BL= NYLON 6/6, UL 94V-0 COLOR: BLACK.
2. THIS PART MATES WITH RECEPTACLE NO 5557.
3. PART IS DESIGNED IN METRIC.
4. THIS PART IS FOR USE WITH MOLEX MALE TERMINAL NO. 5558-*
5. PANEL MOUNT VERSION IS FOR USE WITH .031/.079/(0.80/2.00) THICK PANELS.
6. PANEL SHOULD BE PUNCHED IN THE DIRECTION OF CONNECTOR INSERTION.
7. PRODUCT SPECIFICATION: PS-5556-001



2	J
1	J

WITHOUT MOUNTING EARS

ADDED 50-30-4446 EC NO: UCP2006-0276 DRAWNDUNNE 2005/08/09 CHKD: GPOLGAR 2005/08/09 APPR: ICOMERC.L 2005/08/11	QUALITY SYMBOLS ▽=0 ▽=0
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GENERAL TOLERANCES (UNLESS SPECIFIED)	
4 PLACES ± --- ± ---	INCH
3 PLACES ± --- ± .010	mm
2 PLACES ± 0.25 ± .015	
1 PLACE ± 0.38 ± ---	
ANGULAR ±1/2°	

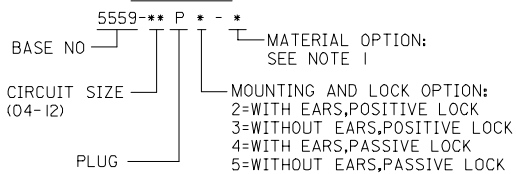
DIMENSION STYLE	
IN/MM	
DRAWN BY	DATE
KSS	2/19/89
CHECKED BY	DATE
RJF	2/19/89
APPROVED BY	DATE
RAS	2/19/89
MATERIAL NO.	DOCUMENT NO.
SEE CHART	SD-5559-NLP*

SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
MINI-FIT JR. SERIES PLUG (SINGLE ROW)		
MOLEX INCORPORATED		
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE CHART	SD-5559-NLP*	1 OF 2
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

13	12	11	10	9	8	
PART NO	ENG NO	CKT SIZE	MOUNTING OPTION	LOCK OPTION	MATERIAL SEE NOTE I	
J	39-01-4042	5559-04P2	4	W/EARS	POSITIVE	94V-2
J	39-01-4046	5559-04P3	4	W/O EAR	POSITIVE	94V-2
J	39-01-4043	5559-04P2-210	4	W/EARS	POSITIVE	94V-0
J	39-01-4047	5559-04P3-210	4	W/O EAR	POSITIVE	94V-0
I	39-01-4052	5559-05P2	5	W/EARS	POSITIVE	94V-2
I	39-01-4056	5559-05P3	5	W/O EAR	POSITIVE	94V-2
I	39-01-4053	5559-05P2-210	5	W/EARS	POSITIVE	94V-0
I	39-01-4057	5559-05P3-210	5	W/O EAR	POSITIVE	94V-0
I	50-30-4446	5559-05P3-210-BL	5	W/O EAR	POSITIVE	94V-0
H	39-01-4062	5559-06P2	6	W/EARS	POSITIVE	94V-2
H	39-01-4066	5559-06P3	6	W/O EAR	POSITIVE	94V-2
H	39-01-4063	5559-06P2-210	6	W/EARS	POSITIVE	94V-0
H	39-01-4067	5559-06P3-210	6	W/O EAR	POSITIVE	94V-0
H	39-01-4072	5559-07P2	7	W/EARS	POSITIVE	94V-2
G	39-01-4076	5559-07P3	7	W/O EAR	POSITIVE	94V-2
G	39-01-4073	5559-07P2-210	7	W/EARS	POSITIVE	94V-0
G	39-01-4077	5559-07P3-210	7	W/O EAR	POSITIVE	94V-0
G	39-01-4082	5559-08P2	8	W/EARS	POSITIVE	94V-2
G	39-01-4086	5559-08P3	8	W/O EAR	POSITIVE	94V-2
G	39-01-4083	5559-08P2-210	8	W/EARS	POSITIVE	94V-0
G	39-01-4087	5559-08P3-210	8	W/O EAR	POSITIVE	94V-0
F	39-01-4092	5559-09P2	9	W/EARS	POSITIVE	94V-2
F	39-01-4096	5559-09P3	9	W/O EAR	POSITIVE	94V-2
F	39-01-4093	5559-09P2-210	9	W/EARS	POSITIVE	94V-0
F	39-01-4097	5559-09P3-210	9	W/O EAR	POSITIVE	94V-0
E	39-01-4102	5559-10P2	10	W/EARS	POSITIVE	94V-2
E	39-01-4106	5559-10P3	10	W/O EAR	POSITIVE	94V-2
E	39-01-4103	5559-10P2-210	10	W/EARS	POSITIVE	94V-0
E	39-01-4107	5559-10P3-210	10	W/O EAR	POSITIVE	94V-0
E	39-01-4112	5559-11P2	11	W/EARS	POSITIVE	94V-2
E	39-01-4116	5559-11P3	11	W/O EAR	POSITIVE	94V-2
E	39-01-4113	5559-11P2-210	11	W/EARS	POSITIVE	94V-0
D	39-01-4117	5559-11P3-210	11	W/O EAR	POSITIVE	94V-0
D	39-01-4122	5559-12P2	12	W/EARS	POSITIVE	94V-2
D	39-01-4126	5559-12P3	12	W/O EAR	POSITIVE	94V-2
D	39-01-4123	5559-12P2-210	12	W/EARS	POSITIVE	94V-0
D	39-01-4127	5559-12P3-210	12	W/O EAR	POSITIVE	94V-0

7	6	5	4	3	2	1
PART NO	ENG NO	CKT SIZE	MOUNTING OPTION	LOCK OPTION	MATERIAL SEE NOTE I	
J	NO E.D.P.	5559-04P4	4	W/EARS	PASSIVE	94V-2
J	NO E.D.P.	5559-04P5	4	W/O EAR	PASSIVE	94V-2
J	NO E.D.P.	5559-04P4-210	4	W/EARS	PASSIVE	94V-0
J	NO E.D.P.	5559-04P5-210	4	W/O EAR	PASSIVE	94V-0
I	50-29-1599	5559-05P4-210	5	W/EARS	PASSIVE	94V-0
I	NO E.D.P.	5559-05P5-210	5	W/O EAR	PASSIVE	94V-0
I	NO E.D.P.	5559-05P5-210-BL	5	W/O EAR	PASSIVE	94V-0
H	NO E.D.P.	5559-06P4	6	W/EARS	PASSIVE	94V-2
H	NO E.D.P.	5559-06P5	6	W/O EAR	PASSIVE	94V-2
H	NO E.D.P.	5559-06P4-210	6	W/EARS	PASSIVE	94V-0
H	NO E.D.P.	5559-06P5-210	6	W/O EAR	PASSIVE	94V-0
G	NO E.D.P.	5559-07P4	7	W/EARS	PASSIVE	94V-2
G	NO E.D.P.	5559-07P5	7	W/O EAR	PASSIVE	94V-2
G	NO E.D.P.	5559-07P4-210	7	W/EARS	PASSIVE	94V-0
G	NO E.D.P.	5559-07P5-210	7	W/O EAR	PASSIVE	94V-0
F	NO E.D.P.	5559-08P4	8	W/EARS	PASSIVE	94V-2
F	NO E.D.P.	5559-08P5	8	W/O EAR	PASSIVE	94V-2
F	NO E.D.P.	5559-08P4-210	8	W/EARS	PASSIVE	94V-0
F	NO E.D.P.	5559-08P5-210	8	W/O EAR	PASSIVE	94V-0
F	NO E.D.P.	5559-09P4	9	W/EARS	PASSIVE	94V-2
F	NO E.D.P.	5559-09P5	9	W/O EAR	PASSIVE	94V-2
F	NO E.D.P.	5559-09P4-210	9	W/EARS	PASSIVE	94V-0
F	NO E.D.P.	5559-09P5-210	9	W/O EAR	PASSIVE	94V-0
E	NO E.D.P.	5559-10P4	10	W/EARS	PASSIVE	94V-2
E	NO E.D.P.	5559-10P5	10	W/O EAR	PASSIVE	94V-2
E	NO E.D.P.	5559-10P4-210	10	W/EARS	PASSIVE	94V-0
E	NO E.D.P.	5559-10P5-210	10	W/O EAR	PASSIVE	94V-0
D	NO E.D.P.	5559-11P4	11	W/EARS	PASSIVE	94V-2
D	NO E.D.P.	5559-11P5	11	W/O EAR	PASSIVE	94V-2
D	NO E.D.P.	5559-11P4-210	11	W/EARS	PASSIVE	94V-0
D	NO E.D.P.	5559-11P5-210	11	W/O EAR	PASSIVE	94V-0
D	NO E.D.P.	5559-12P4	12	W/EARS	PASSIVE	94V-2
D	NO E.D.P.	5559-12P5	12	W/O EAR	PASSIVE	94V-2
D	NO E.D.P.	5559-12P4-210	12	W/EARS	PASSIVE	94V-0
D	NO E.D.P.	5559-12P5-210	12	W/O EAR	PASSIVE	94V-0

LEGEND



SEE SHEET 1 FCC NO: UCP2006-0276 DRAWNDONNE 2005/08/09 CHKD:GOLGAR 2005/08/09 APPR: JCMERC1 2005/08/11	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .015 1 PLACE ± 0.38 ± --- ANGULAR ±1/2°	DRAWN BY RJF CHECKED BY BAP APPROVED BY RAS	DATE 10/13/89 DATE 10/13/89 DATE 10/13/89	MINI-FIT JR SERIES PLUG (SINGLE ROW) MOLEX INCORPORATED			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		MATERIAL NO.		DOCUMENT NO. SD-5559-NLP*	SHEET NO. 2	