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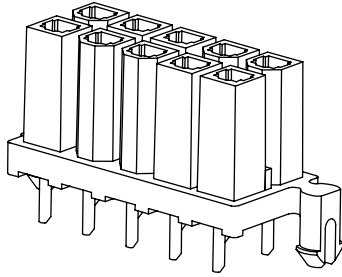
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Jameco Part Number 1962199

# 4.20mm (.165") Pitch Mini-Fit BMI™ PCB Receptacle Header

**42385**  
Vertical  
Dual Row



### Features and Benefits

- Board-mounted receptacle header for board-to-board applications
- Fully isolated terminals to protect contacts from damage
- The 42385 series is not inherently blindmating. Guidance to align the connectors during mating and float to provide stress-free positioning after mating must be provided

### Reference Information

Packaging: Tray  
 UL File No.: E29179  
 CSA File No.: LR19980  
 TUV License No.: Pending  
 Mates With: 42475 plug, 42404, 42440, 43810, 43879 and 44068 headers  
 PCB Thickness: 1.60mm (.062")  
 Process: Wave Solder  
 Designed In: Millimeters

### Electrical

Voltage: 600V  
 Current: (Used with 16 AWG)

Series	Circuits			
	2-3	4-6	7-10	12-24
46134*	9.0A	8.0A	7.0A	6.0A

\*Brass

Contact Resistance: 10 milliohms max.  
 Dielectric Withstanding Voltage: 1500V  
 Insulation Resistance: 1000 Megohms min.

### Mechanical

Insertion Force to PCB: 9.0kg max.

### Physical

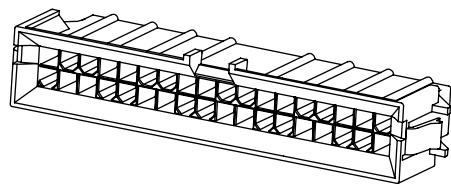
Housing: 6/6 nylon, UL 94V-2 or 94V-0  
 Contact: Brass  
 Plating: Post-plated Tin or Select Gold  
 Underplating: Nickel  
 Operating Temperature: -40 to +105°C

Circuits	Order No.				Lead-free
	Tin		Select Gold		
	94V-2	94V-0	94V-2	94V-0	
4	<a href="#">15-24-7040</a>	<a href="#">15-24-7041</a>	<a href="#">15-24-7042</a>	<a href="#">15-24-7043</a>	Yes
6	<a href="#">15-24-7060</a>	<a href="#">15-24-7061</a>	<a href="#">15-24-7062</a>	<a href="#">15-24-7063</a>	
10	<a href="#">15-24-7100</a>	<a href="#">15-24-7101</a>	<a href="#">15-24-7102</a>	<a href="#">15-24-7103</a>	
14	<a href="#">15-24-7140</a>	<a href="#">15-24-7141</a>	<a href="#">15-24-7142</a>	<a href="#">15-24-7143</a>	
16	<a href="#">15-24-7160</a>	<a href="#">15-24-7161</a>	<a href="#">15-24-7162</a>	<a href="#">15-24-7163</a>	
18	<a href="#">15-24-7180</a>	<a href="#">15-24-7181</a>	<a href="#">15-24-7182</a>	<a href="#">15-24-7183</a>	
24	<a href="#">15-24-7240</a>	<a href="#">15-24-7241</a>	<a href="#">15-24-7242</a>	<a href="#">15-24-7243</a>	

Note: 42385 headers do not mate with Mini-Fit Jr.™ products

# 4.20mm (.165") Pitch Mini-Fit BMI™ Plug

**43770**  
Dual Row  
With Panel Mount Ears



### Features and Benefits

- Blind mating panel mounted plug
- Fully isolated terminals to protect contacts from damage
- Designed so terminals in top row of housing seat further into the body and engage first when mated to reduce overall insertion force

### Reference Information

Packaging: Bag  
 UL File No.: E29179  
 CSA File No.: LR19980  
 TUV License No.: R75142  
 Mates With: 44516 housing  
 Use With: 5558, 46134, 46012 or 46098 terminals  
 Panel Thickness: 1.60mm (.063") max.  
 Designed In: Millimeters

### Physical

Housing: 6/6 nylon, UL 94V-2  
 Operating Temperature: -40 to +105°C

Circuits	Order No.
36	<a href="#">43770-0001</a>



# PRODUCT SPECIFICATION

## MINI-FIT BMI

### Table of Contents

<u>Section</u>	<u>Page</u>
1.0 <u>Scope</u>	2
2.0 <u>Product Description</u>	2
2.1 Names and Series Numbers	2
Table 1 – Wire-To-Wire	2
Table 2 – Wire-To-Board	2
Table 3 – Board-To-Board	3
2.2 Dimensions, Materials, Platings, and Markings	3
2.3 Safety Agency Approvals	3
3.0 <u>Applicable Documents and Specifications</u>	3
4.0 <u>Ratings</u>	4
4.1 Voltage	4
4.2 Applicable Wires	4
4.3 Maximum Current Rating (Amperes)	4
Table 4 – Wire-To-Wire	4
Table 5 – Wire-To-Board	5
Table 6 – Board-To-Board	5
4.4 Temperature	5
4.5 Wave Solder Process Temperature	5
5.0 <u>Wire-To-Wire Performance</u>	6
5.1 Electrical Requirements	6
5.2 Mechanical Requirements	6
5.3 Environmental Requirements	8
6.0 <u>Wire-To-Board Performance</u>	9
6.1 Electrical Requirements	9
6.2 Mechanical Requirements	10
6.3 Environmental Requirements	12
7.0 <u>Board-To-Board Performance</u>	13
7.1 Electrical Requirements	13
7.2 Mechanical Requirements	14
7.3 Environmental Requirements	15
8.0 <u>Test Sequences</u>	15
9.0 <u>Packaging</u>	15

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: <b>UCP2007-0312</b> DATE: <b>2006 / 08 / 08</b>	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>1 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 1.0 SCOPE

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

## 2.0 PRODUCT DESCRIPTION

### 2.1 NAMES AND SERIES NUMBER(S)

Table 1 – WIRE-TO-WIRE				
Description	Series Number	UL	CSA	TUV
Female Crimp Terminal	5556	N/A	N/A	N/A
Receptacle Housing, BMI	42474	Yes	Yes	Yes
Male Crimp Terminal	5558	N/A	N/A	N/A
Plug Housing, BMI	42475	Yes	Yes	Yes
Plug Housing, BMI	43558	Yes	Yes	No
Plug Housing, BMI	43770	Yes	Yes	Yes

Table 2 – WIRE-TO-BOARD				
Description	Series Number	UL	CSA	TUV
Female Crimp Terminal	5556	N/A	N/A	N/A
Receptacle Housing, BMI	42474	Yes	Yes	Yes
Male Crimp Terminal	5558	N/A	N/A	N/A
Plug Housing, BMI	42475	Yes	Yes	Yes
Plug Housing, BMI	43558	Yes	Yes	No
Receptacle Header, BMI	42385	Yes	Yes	No
Receptacle Header, BMI	42416	Yes	Yes	No
Vertical Header, BMI	42440	Yes	Yes	No
Vertical Header, BMI	42786	Yes	Yes	Yes
Vertical Header, BMI	43176	No	No	No
Vertical Header, BMI	43459	Yes	Yes	No
Vertical Header, BMI	43693	Yes	Yes	No
Right Angle Header, BMI	42404	Yes	Yes	No
Right Angle Header, BMI	42417	Yes	Yes	No
Right Angle Header, BMI	43644	Yes	Yes	No
Right Angle Header, BMI	44151	Yes	Yes	No
Right Angle Header, BMI	44499	Yes	Yes	No

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>2 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

**Table 3 – BOARD-TO-BOARD**

Description	Series Number	UL	CSA	TUV
Vertical Receptacle Header, BMI	42385	Yes	Yes	No
Vertical Receptacle Header, BMI	42416	Yes	Yes	No
Vertical Header, BMI	42440	Yes	Yes	No
Vertical Header, BMI	42786	Yes	Yes	Yes
Vertical Header, BMI	43459	Yes	Yes	No
Vertical Header, BMI	43693	Yes	Yes	No
Right Angle Header, BMI	42404	Yes	Yes	No
Right Angle Header, BMI	42417	Yes	Yes	No
Right Angle Header, BMI	43644	Yes	Yes	No
Right Angle Header, BMI	44151	Yes	Yes	No
Right Angle Header, BMI	44499	Yes	Yes	No

## 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: LR19980

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.

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: <b>UCP2007-0312</b> DATE: <b>2006 / 08 / 08</b>	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>3 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 4.0 RATINGS

### 4.1 VOLTAGE

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

### 4.2 APPLICABLE WIRES

<b>Applicable Wire Gauges and Maximum Insulation Diameter</b>	16 AWG: 3.10 / .122 MAXIMUM
	18-20 AWG: 3.10 / .122 MAXIMUM
	22-28 AWG: 1.80 / .071 MAXIMUM

### 4.3 MAXIMUM CURRENT RATING (Amperes)

Table 4 – WIRE-TO-WIRE									
Brass					Phosphor Bronze				
Wire \ Ckt. Size	2-3	4 - 6	7 - 10	12 - 24	Wire \ Ckt. Size	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

<u>REVISION:</u> <b>G1</b>	<u>EGR/ECN INFORMATION:</u> EC No: UCP2007-0312 DATE: 2006 / 08 / 08	<u>TITLE:</u> <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	<u>SHEET No.</u> <b>4 of 15</b>
<u>DOCUMENT NUMBER:</u> <b>PS-5556-002</b>		<u>CREATED / REVISED BY:</u> <b>CSTEWART</b>	<u>CHECKED BY:</u> <b>GPOLGAR</b>
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# PRODUCT SPECIFICATION

## 4.3 MAXIMUM CURRENT RATING (Amperes) (continued)

Table 5 – WIRE-TO-BOARD										
Brass					Phosphor Bronze					
Wire \ Ckt. Size	2-3	4 - 6	7 - 10	12 - 24	Wire \ Ckt. Size	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	

**Note:** PCB trace design may greatly affect temperature rise results.

Table 6 – BOARD-TO-BOARD									
Brass					Phosphor Bronze				
Ckt. Size	2-3	4 - 6	7 - 10	12 - 24	Ckt. Size	2-3	4 - 6	7 - 10	12 - 24
	9	8	7	6		8	7	6	5

**Note:** PCB trace design may greatly affect temperature rise results.

## 4.4 TEMPERATURE

Operating: \* - 40°C to + 105°C

Nonoperating: - 40°C to + 105°C

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

## 4.5 WAVE SOLDER PROCESS TEMPERATURE

Headers with pegs: 240°C MAX.

Headers without pegs: 260°C MAX.

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>5 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 5.0 WIRE-TO-WIRE 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
5	Dielectric Withstanding Voltage	Mate connectors: apply a voltage of 2200 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 Per Circuit	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	Crimp 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

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>6 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>





# PRODUCT SPECIFICATION

## 5.2 MECHANICAL REQUIREMENTS (continued)

4	<b>Vibration (Random)</b>	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
5	<b>Shock (Mechanical)</b>	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	<b>Wire Pullout Force (Axial)</b>	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.
7	<b>Crimp Terminal Insertion Force (into Housing)</b>	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	<b>Normal Force</b>	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	<b>PCB Engagement And Separation Forces</b>	Engage and separate a connector at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (Applies to parts with PCB retention features only)	Standard 49.0 N (11.0 lbf) MAXIMUM insertion force & 10.0 N (2.24 lbf) MINIMUM withdrawal force
			Press-Fit T.B.D.
			Metal Clip T.B.D.
10	<b>Thumb Latch Operation Force</b>	Depress latch at a rate of 25 ± 6mm (1 ± ¼ inch) per minute.	16.67 N (3.75 lbf) MAXIMUM
11	<b>Thumb Latch Yield Strength</b>	Mate loaded connectors fully. Pull connectors apart at a rate of 25 ± 6mm (1 ± ¼ inch) per minute.	68 N (15.29 lbf) MINIMUM

<b>REVISION:</b> <b>G1</b>	<b>EGR/ECN INFORMATION:</b> EC No: UCP2007-0312 DATE: 2006 / 08 / 08	<b>TITLE:</b> <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	<b>SHEET No.</b> <b>7 of 15</b>
<b>DOCUMENT NUMBER:</b> <b>PS-5556-002</b>	<b>CREATED / REVISED BY:</b> <b>CSTEWART</b>	<b>CHECKED BY:</b> <b>GPOLGAR</b>	<b>APPROVED BY:</b> <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 5.2 MECHANICAL REQUIREMENTS (continued)

12	<b>Panel Insertion and Withdrawal Forces (for 42474)</b>	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
13	<b>Panel Insertion and Withdrawal Forces (for 44516)</b>	Insert and withdraw a connector at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	0.0 MAXIMUM insertion force & 157 N (35.3 lbf) MINIMUM withdrawal force
14	<b>Panel Insertion and Withdrawal Forces (for 42475)</b>	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	<b>Thermal Shock</b>	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	<b>Thermal Aging</b>	Mate connectors; expose to: 96 hours at 105 ± 2°C	20 milliohms MAXIMUM & Visual: No Damage
3	<b>Humidity (Steady State)</b>	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
4	<b>Mixed Flowing Gas</b>	EIA-364-65 with Class IIa Gas concentrations (Gold plated only)	20 milliohms MAXIMUM Visual: No Damage

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>8 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 6.0 WIRE-TO-BOARD PERFORMANCE

### 6.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	<b>Contact Resistance (Low Level)</b>	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	<b>Contact Resistance @ Rated Current</b>	Mate connectors: apply a maximum voltage of 20 mV at rated current.	10 milliohms MAXIMUM [initial]
3	<b>Contact Resistance of Wire Termination (Low Level)</b>	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	<b>Insulation Resistance</b>	Mate connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM
5	<b>Dielectric Withstanding Voltage</b>	Mate connectors: apply a voltage of 2200 VAC for 1 minute between adjacent terminals and between terminals to ground.	No breakdown. Current leakage < 5 mA
6	<b>Temperature Rise (via Current Cycling)</b>	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

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>9 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 6.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	<b>Terminal Mate and Unmate Forces Per Circuit</b>	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	<b>Crimp Terminal Retention Force (in Housing)</b>	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	<b>Solid PC Tail Header Pin Retention Force (in Housing)</b>	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	4.45 N (1.00 lbf) MINIMUM retention force
4	<b>Stamped PC Tail Terminal Retention Force (in Housing)</b>	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
5	<b>Durability</b>	Mate connectors up to 75 (Sn) or 100 (Au) cycles at a maximum rate of 10 cycles per minute prior to Environmental Tests.	20 milliohms MAXIMUM
6	<b>Vibration (Random)</b>	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
7	<b>Shock (Mechanical)</b>	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
8	<b>Wire Pullout Force (Axial)</b>	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.
9	<b>Crimp Terminal Insertion Force (into Housing)</b>	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

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>10 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 6.2 MECHANICAL REQUIREMENTS (continued)

10	<b>Normal Force</b>	Apply a perpendicular force.	0.49 N (50 grams) MINIMUM [Gold (noble) plating] OR 1.47 N (150 grams) MINIMUM [Tin (non-noble) plating]
11	<b>PCB Engagement And Separation Forces</b>	Engage and separate a connector at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (Applies to parts with PCB retention features only)	Standard 49.0 N (11.0 lbf) MAXIMUM insertion force & 10.0 N (2.24 lbf) MINIMUM withdrawal force
			Press-Fit T.B.D.
			Metal Clip T.B.D.
12	<b>Thumb Latch Operation Force</b>	Depress latch at a rate of 25 ± 6mm (1 ± ¼ inch) per minute.	16.67 N (3.75 lbf) MAXIMUM
13	<b>Thumb Latch Yield Strength</b>	Mate loaded connectors fully. Pull connectors apart at a rate of 25 ± 6mm (1 ± ¼ inch) per minute.	68 N (15.29 lbf) MINIMUM
14	<b>Panel Insertion and Withdrawal Forces (for 42474)</b>	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
15	<b>Panel Insertion and Withdrawal Forces (for 44516)</b>	Insert and withdraw a connector at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	0.0 MAXIMUM insertion force & 157 N (35.3 lbf) MINIMUM withdrawal force
16	<b>Panel Insertion and Withdrawal Forces (for 42475)</b>	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

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>11 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 6.3 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	<b>Thermal Shock</b>	Mate connectors: expose for 5 cycles Between temperatures $-55$ and $105^{\circ}\text{C}$ ; 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	<b>Thermal Aging</b>	Mate connectors; expose to: 96 hours at $105 \pm 2^{\circ}\text{C}$	20 milliohms MAXIMUM & Visual: No Damage
3	<b>Humidity (Steady State)</b>	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	<b>Solderability</b>	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)
5	<b>Solder Temperature Heat Transfer Resistance</b>	Dip connector terminals tail in solder: Solder Duration: $5 \pm 0.5$ seconds; Solder Temperature: $260 \pm 5^{\circ}\text{C}$	Visual: No Damage to the insulator where the terminal or pin locks to the connector housing
6	<b>Mixed Flowing Gas</b>	EIA-364-65 with Class IIa Gas concentrations (Gold plated only)	20 milliohms MAXIMUM Visual: No Damage

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>12 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 7.0 BOARD-TO-BOARD PERFORMANCE

### 7.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	<b>Contact Resistance (Low Level)</b>	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	<b>Contact Resistance @ Rated Current</b>	Mate connectors: apply a maximum voltage of 20 mV at rated current.	10 milliohms MAXIMUM [initial]
3	<b>Contact Resistance of Wire Termination (Low Level)</b>	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	<b>Insulation Resistance</b>	Mate connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM
5	<b>Dielectric Withstanding Voltage</b>	Mate connectors: apply a voltage of 2200 VAC for 1 minute between adjacent terminals and between terminals to ground.	No breakdown. Current leakage < 5 mA
6	<b>Temperature Rise (via Current Cycling)</b>	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

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>13 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



# PRODUCT SPECIFICATION

## 7.2 MECHANICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT	
1	<b>Terminal Mate and Unmate Forces Per Circuit</b>	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	<b>Stamped PC Tail Terminal Retention Force (in Housing)</b>	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	<b>Solid PC Tail Header Pin Retention Force (in Housing)</b>	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	4.45 N (1.00 lbf) MINIMUM retention force	
4	<b>Durability</b>	Mate connectors up to 75 (Sn) or 100 (Au) cycles at a maximum rate of 10 cycles per minute prior to Environmental Tests.	20 milliohms MAXIMUM	
5	<b>Vibration (Random)</b>	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond	
6	<b>Shock (Mechanical)</b>	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	
7	<b>Normal Force</b>	Apply a perpendicular force.	1.96 N (200 grams) MINIMUM	
8	<b>PCB Peg Engagement and Separation Forces</b>	Engage and separate a connector at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (Applies to parts with PCB retention features only)	Standard	98.0 N (22.0 lbf) MAXIMUM insertion force & 10.0 N (2.24 lbf) MINIMUM withdrawal force
			Press-Fit	T.B.D.
			Metal Clip	T.B.D.

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>14 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>





# PRODUCT SPECIFICATION

## 7.3 ENVIRONMENTAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	<b>Thermal Shock</b>	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	<b>Thermal Aging</b>	Mate connectors; expose to: 96 hours at 105 ± 2°C	20 milliohms MAXIMUM & Visual: No Damage
3	<b>Humidity (Steady State)</b>	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
4	<b>Solderability</b>	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)
5	<b>Solder Temperature Heat Transfer</b>	Dip connector terminals tail in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: 260 ± 5°C	Visual: No Damage to the insulator insulator where the terminal or pin locks to the connector housing
6	<b>Mixed Flowing Gas</b>	EIA-364-65 with Class IIa Gas concentrations (Gold plated only)	20 milliohms MAXIMUM Visual: No Damage

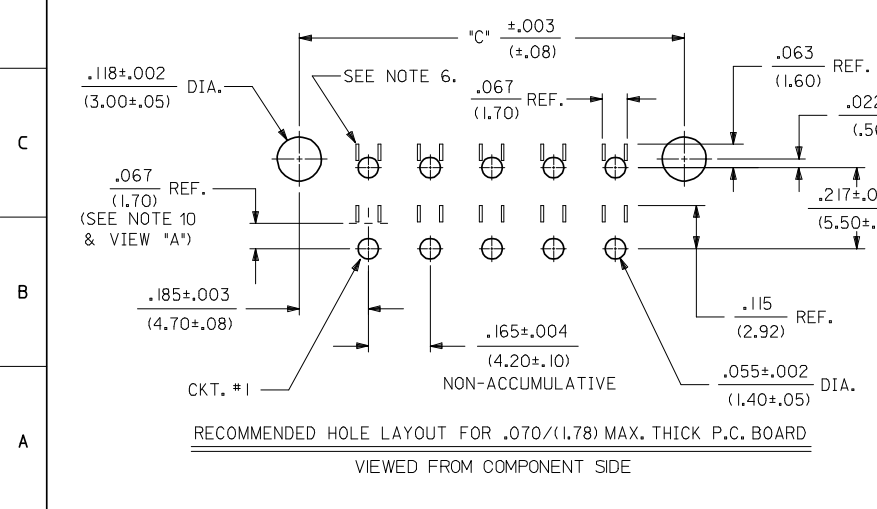
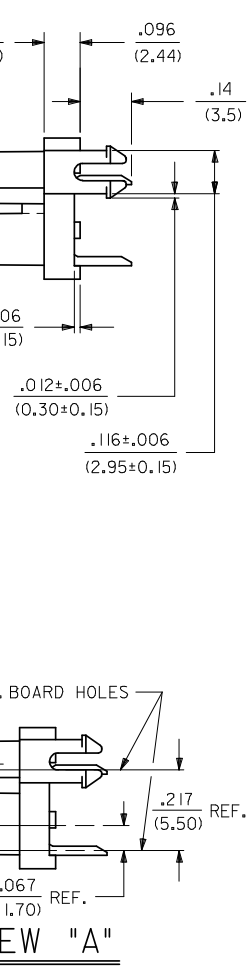
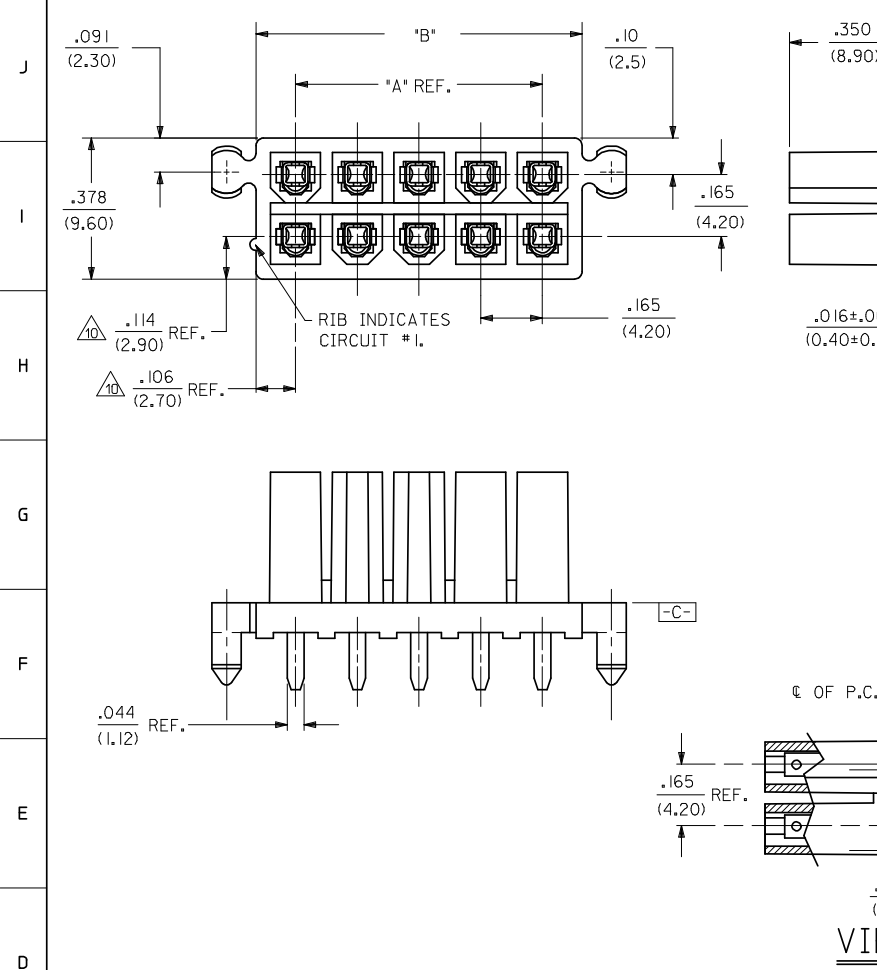
## 8.0 TEST SEQUENCES

Testing sequences to be performed in accordance with EIA-364-1000.01

## 9.0 PACKAGING

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

REVISION: <b>G1</b>	EGR/ECN INFORMATION: EC No: UCP2007-0312 DATE: 2006 / 08 / 08	TITLE: <b>PRODUCT SPECIFICATION FOR MINI-FIT BMI CONNECTOR SYSTEM</b>	SHEET No. <b>15 of 15</b>
DOCUMENT NUMBER: <b>PS-5556-002</b>	CREATED / REVISED BY: <b>CSTEWART</b>	CHECKED BY: <b>GPOLGAR</b>	APPROVED BY: <b>JCOMERCI</b>



**NOTES:**

- 1) HOUSING AND TERMINAL MATERIAL:
  - A - HOUSING: NYLON 6/6, U.L. 94V-2, COLOR: NATURAL. TERMINAL: BRASS, ALLOY 260.
  - B - HOUSING: NYLON 6/6, U.L. 94V-0, COLOR: NATURAL. TERMINAL: BRASS, ALLOY 260.
  - C - HOUSING: NYLON 6/6, U.L. 94V-2, COLOR: NATURAL. TERMINAL: PHOS. BRONZE, ALLOY 510.
  - D - HOUSING: NYLON 6/6, U.L. 94V-0, COLOR: NATURAL. TERMINAL: PHOS. BRONZE, ALLOY 510.
- 2) TERMINAL PLATING:
  - 1 - .000100/(.00254) MIN. BRIGHT TIN OVER .000050/(.00127) MIN. NICKEL.
  - \*2 - .000030/(.00076) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
  - \*3 - .000100/(.00254) MIN. TIN OVER .000050/(.00127) MIN. NICKEL.
  - \*4 - .000050/(.00127) MIN. SELECT GOLD AND .000100/(.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL.
- 3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-5556-002.
- 4) TRAY PACK PER PK-42385-999.
- 5) PART MATES WITH MINI-FIT B.M.I. PLUG #42475 AND HEADERS 42404,42440,43879, AND 44068.
- 6) PHANTOM LINES INDICATE AREAS WHERE TERMINAL STANDOFFS CONTACT P.C. BOARD.
- 7) A MAXIMUM TOLERANCE OF .050/(1.27) ALLOWS FOR 2 POINTS OF ELECTRICAL CONTACT. A MAXIMUM TOLERANCE OF .020/(.51) ALLOWS FOR 4 POINTS OF CONTACT.
- 8) .016 IN/IN OR .016 MM/MM MAX. BOW ALLOWABLE AT DATUM [-C-].
- 9) PART ALLOWS FOR UP TO .100/(2.54) MISALIGNMENT WITH MATING CONNECTOR.
- 10) DIMENSION TO BE USED FOR ALIGNMENT OF CIRCUIT #1 OF MATING CONNECTOR
- 11) CONNECTOR ASSEMBLIES ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
- 12) PARTS NOT DESIGNED FOR CURRENT SHARING.
- 13) WHEN THIS PRODUCT IS USED IN A BLIND MATING APPLICATION, THE SYSTEM LEVEL DESIGN MUST INCORPORATE GUIDANCE SO THE CONNECTORS ARE WITHIN THE CAPTURE ENVELOPE OF THE FLANGES ON THE HEADER OR PLUG HOUSING AND CAN THUS ALIGN THEMSELVES AS THEY COME TOGETHER. FLOAT IS ALSO REQUIRED IN THE OVERALL DESIGN TO ALLOW THE PCB RECEPTACLE OR ITS MATE TO MOVE INTO A STRESS-FREE POSITION AFTER MATING.
- 14) PARTS CONFORM TO CLASS 'B' REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CIRCUIT SIZE	DIM. "A"	DIM. "B"	DIM. "C"
2	—	.21 (5.4)	.370 (9.40)
4	.165 (4.20)	.38 (9.6)	.535 (13.60)
6	.331 (8.40)	.54 (13.8)	.701 (17.80)
8	.496 (12.60)	.71 (18.0)	.866 (22.00)
10	.661 (16.80)	.87 (22.2)	1.031 (26.20)
12	.827 (21.00)	1.04 (26.4)	1.197 (30.40)
14	.992 (25.20)	1.20 (30.6)	1.362 (34.60)
16	1.157 (29.40)	1.37 (34.8)	1.528 (38.80)
18	1.323 (33.60)	1.54 (39.0)	1.693 (43.00)
20	1.488 (37.80)	1.70 (43.2)	1.858 (47.20)
22	1.654 (42.00)	1.87 (47.4)	2.024 (51.40)
24	1.819 (46.20)	2.03 (51.6)	2.189 (55.60)

**LEGEND:** A - 42385 - \* \* \* \*

BASE NUMBER [ ]

CIRCUIT SIZE (02-24) [ ]

HOUSING AND TERMINAL MATERIAL (SEE NOTE 1.) [ ]

PLATING (SEE NOTE 2.) [ ]

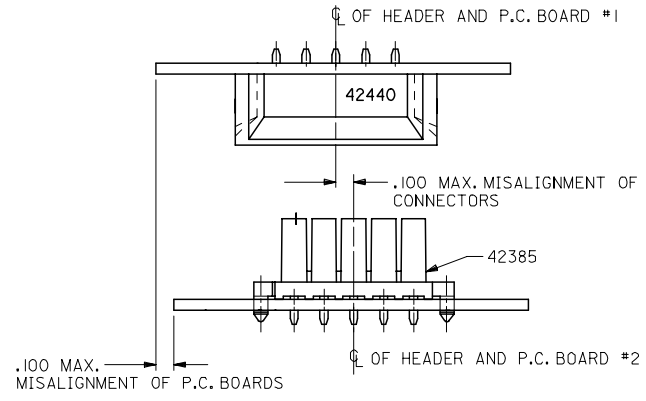
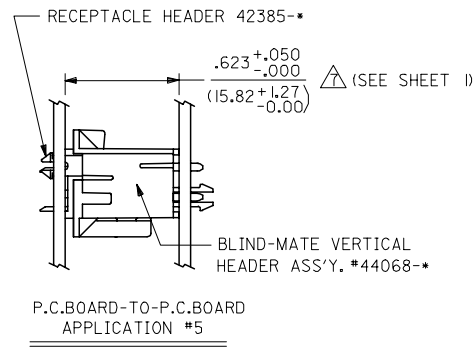
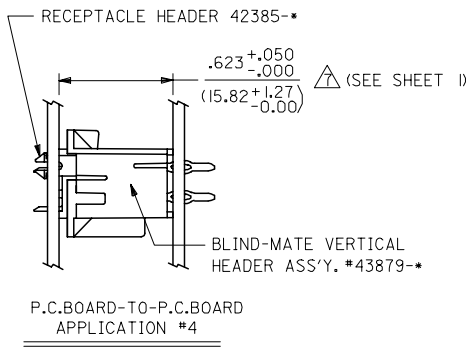
4	W
3	W
2	W1
1	W2
SHEET REV	

<b>ADDED NOTE 14</b> EC NO: UCP2009-0054 DRWN: GAVRILL 2008/07/21 CHKD: JEBELL 2008/07/21 APPR: FSMITH 2008/07/28 W2	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH	DIMENSION STYLE IN/MM	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		DRAWN BY RJF	DATE 1988/12/09	CHECKED BY JTR	DATE 1988/12/09	APPROVED BY RAS
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHTS 3&4		DOCUMENT NO. SDA-42385-*		SHEET NO. 1 OF 4
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

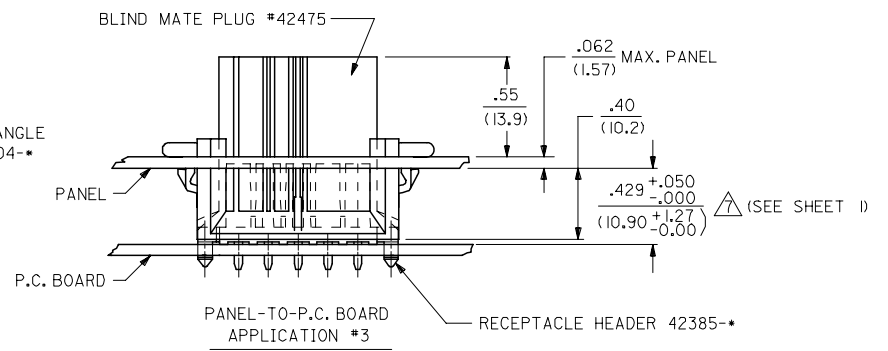
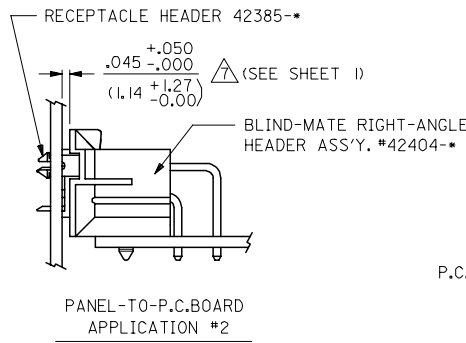
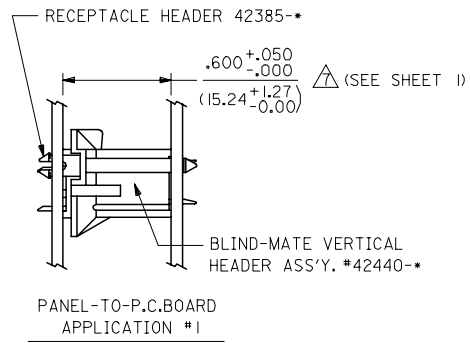
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J  
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C  
B  
A



ALIGNMENT TOLERANCES FOR .100 MAX. BOARD-TO-BOARD MISALIGNMENT  
(NO CONNECTOR FLOAT)



SEE NOTE 13

<p>SEE SHEET 1</p> <p>EC NO: UCP2006-2258</p> <p>DRWN:ADRIANOL 2006/04/11</p> <p>CHKD:GPOUGAR 2006/04/11</p> <p>APPR:ICOMERC.L 2006/04/12</p> <p>W1</p>	<p>QUALITY SYMBOLS</p> <p>◻=0</p> <p>◻=0</p>	<p>GENERAL TOLERANCES (UNLESS SPECIFIED)</p>		<p>DIMENSION STYLE</p> <p>IN/MM</p>		<p>SCALE</p> <p>4:1</p>	<p>DESIGN UNITS</p> <p>METRIC</p>	<p>THIRD ANGLE PROJECTION</p>	
		<p>4 PLACES ± --- ± ---</p>	<p>3 PLACES ± --- ± .015</p>	<p>DRAWN BY</p> <p>RJF</p>	<p>DATE</p> <p>1988/12/09</p>	<p>TITLE</p> <p>RECEPTACLE HEADER ASSY</p> <p>MINI-FIT SERIES</p> <p>BLIND MATE</p>			
		<p>2 PLACES ± 0.38 ± ---</p>	<p>1 PLACE ± --- ± ---</p>	<p>CHECKED BY</p> <p>JTR</p>	<p>DATE</p> <p>1988/12/09</p>	<p>MATERIAL NO.</p> <p>RAS</p>			
		<p>ANGULAR ±1/2°</p>		<p>APPROVED BY</p> <p>RAS</p>	<p>DATE</p> <p>1988/12/09</p>	<p>DOCUMENT NO.</p> <p>SDA-42385-*</p>			
<p>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</p>				<p>SIZE</p> <p>C</p>		<p>SEE CHART</p>		<p>SHEET NO.</p> <p>2 OF 4</p>	

12 11 10 9 8 7 6 5 4 3 2 1

A	B	C	D	E	F	G	H	I	J	
	PART NUMBER	ENG. NUMBER	CKT. SIZE	HSG./TERM. MATERIAL	TERMINAL PLATING	PART NUMBER	ENG. NUMBER	CKT. SIZE	HSG./TERM. MATERIAL	TERMINAL PLATING
	NO E.D.P.	A-42385-02A1	2	94V-2/BRASS	BRIGHT TIN OVER NICKEL	NO E.D.P.	A-42385-02B1	2	94V-0/BRASS	BRIGHT TIN OVER NICKEL
	15-24-7040	-04A1	4			15-24-7041	-04B1	4		
	15-24-7060	-06A1	6			15-24-7061	-06B1	6		
	NO E.D.P.	-08A1	8			NO E.D.P.	-08B1	8		
	15-24-7100	-10A1	10			15-24-7101	-10B1	10		
	NO E.D.P.	-12A1	12			NO E.D.P.	-12B1	12		
	15-24-7140	-14A1	14			15-24-7141	-14B1	14		
	15-24-7160	-16A1	16			15-24-7161	-16B1	16		
	15-24-7180	-18A1	18			15-24-7181	-18B1	18		
	NO E.D.P.	-20A1	20			NO E.D.P.	-20B1	20		
	NO E.D.P.	-22A1	22			NO E.D.P.	-22B1	22		
	15-24-7240	A-42385-24A1	24	94V-2/BRASS	BRIGHT TIN OVER NICKEL	15-24-7241	A-42385-24B1	24	94V-0/BRASS	BRIGHT TIN OVER NICKEL
	NO E.D.P.	A-42385-02A2	2	94V-2/BRASS	30 M.I. SEL. GOLD	NO E.D.P.	A-42385-02B2	2	94V-0/BRASS	30 M.I. SEL. GOLD
	15-24-7042	-04A2	4			15-24-7043	-04B2	4		
	15-24-7062	-06A2	6			15-24-7063	-06B2	6		
	NO E.D.P.	-08A2	8			NO E.D.P.	-08B2	8		
	15-24-7102	-10A2	10			15-24-7103	-10B2	10		
	NO E.D.P.	-12A2	12			NO E.D.P.	-12B2	12		
	15-24-7142	-14A2	14			15-24-7143	-14B2	14		
	15-24-7162	-16A2	16			15-24-7163	-16B2	16		
	15-24-7182	-18A2	18			15-24-7183	-18B2	18		
	NO E.D.P.	-20A2	20			NO E.D.P.	-20B2	20		
	NO E.D.P.	-22A2	22			NO E.D.P.	-22B2	22		
	15-24-7242	A-42385-24A2	24	94V-2/BRASS	30 M.I. SEL. GOLD	15-24-7243	A-42385-24B2	24	94V-0/BRASS	30 M.I. SEL. GOLD
	NO E.D.P.	A-42385-02C1	2	94V-2/P.B.	BRIGHT TIN OVER NICKEL	NO E.D.P.	A-42385-02D1	2	94V-0/P.B.	BRIGHT TIN OVER NICKEL
	15-24-7044	-04C1	4			NO E.D.P.	-04D1	4		
	15-24-7064	-06C1	6			NO E.D.P.	-06D1	6		
	NO E.D.P.	-08C1	8			NO E.D.P.	-08D1	8		
	15-24-7104	-10C1	10			NO E.D.P.	-10D1	10		
	NO E.D.P.	-12C1	12			NO E.D.P.	-12D1	12		
	15-24-7144	-14C1	14			NO E.D.P.	-14D1	14		
	NO E.D.P.	-16C1	16			NO E.D.P.	-16D1	16		
	15-24-7184	-18C1	18			NO E.D.P.	-18D1	18		
	NO E.D.P.	-20C1	20			NO E.D.P.	-20D1	20		
	NO E.D.P.	-22C1	22			NO E.D.P.	-22D1	22		
	15-24-7244	A-42385-24C1	24	94V-2/P.B.	BRIGHT TIN OVER NICKEL	NO E.D.P.	A-42385-24D1	24	94V-0/P.B.	BRIGHT TIN OVER NICKEL
	NO E.D.P.	A-42385-02C2	2	94V-2/P.B.	30 M.I. SEL. GOLD	NO E.D.P.	A-42385-02D2	2	94V-0/P.B.	30 M.I. SEL. GOLD
	NO E.D.P.	-04C2	4			NO E.D.P.	-04D2	4		
	NO E.D.P.	-06C2	6			15-24-7067	-06D2	6		
	NO E.D.P.	-08C2	8			NO E.D.P.	-08D2	8		
	NO E.D.P.	-10C2	10			NO E.D.P.	-10D2	10		
	NO E.D.P.	-12C2	12			NO E.D.P.	-12D2	12		
	NO E.D.P.	-14C2	14			NO E.D.P.	-14D2	14		
	NO E.D.P.	-16C2	16			NO E.D.P.	-16D2	16		
	NO E.D.P.	-18C2	18			15-24-7187	-18D2	18		
	NO E.D.P.	-20C2	20			NO E.D.P.	-20D2	20		
	NO E.D.P.	-22C2	22			NO E.D.P.	-22D2	22		
	NO E.D.P.	A-42385-24C2	24	94V-2/P.B.	30 M.I. SEL. GOLD	15-24-7247	A-42385-24D2	24	94V-0/P.B.	30 M.I. SEL. GOLD

42385

W	SEE SHT. I.	K	SEE SHT. I.
V1	SEE SHT. I.	G	SEE SHT. I.
T6	SEE SHT. I.	F1	SEE SHT. I.
T4	SEE SHT. I.	E1	SEE SHT. I.
T1	SEE SHT. I.	E	SEE SHT. I.
S	SEE SHT. I.	D1	SEE SHT. I.
R3	SEE SHT. I.	A	SEE SHT. I.
LTR.	REVISIONS	LTR.	REVISIONS

DRWG. BY: RJF  
 CHECK'D. BY: JTR  
 DATE: 12/9/88  
 SCALE: :

DIMENSIONS SHOWN (METRIC) INCH  
 UNLESS OTHERWISE SPECIFIED  
 TOLERANCES: ANGULAR ± 1/2°

3 PLACE ± --- ---  
 2 PLACE ± --- ± ---  
 1 PLACE --- ± ---

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

REVISE ONLY ON CAD SYSTEM

TITLE: RECEPTACLE HEADER ASSEMBLIES (MINI-FIT B.M.I. SERIES)

MOLEX INCORPORATED U.S.A.  
 60532

SHEET NO. 3  
 DATE 12/9/88

PART NO. SDA-42385-\*

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42385