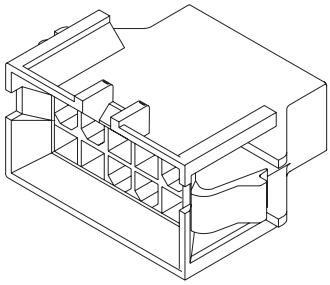
Jameco Part Number 1962172

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

42475
Dual Row With Panel Mount Ears



Features and Benefits
- Blind mating panel mounted plug
- Positive housing locks to mate with Mini-Fit Jr.
- Fully isolated terminals to protect contacts from damage

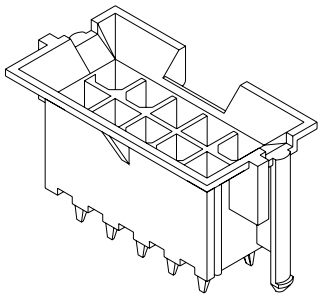
Reference Information
Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: R75142
Mates With: 5557, 42474 or 44516 receptacles and 42385, 46010 or 46101 PCB receptacles
Use With: 5558, 46134, 46012 or 46098 terminals
Panel Thickness: 1.60mm (.063") max.
Designed In: Millimeters

Physical
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Operating Temperature: -40 to +105˚C

Circuits	Order No.	
	94V-2	94V-0
4	15-06-0045	15-06-0046
6	15-06-0065	15-06-0066
8	15-06-0085	
10	15-06-0105	15-06-0106
14	15-06-0145	15-06-0146
18	15-06-0185	15-06-0186
24	15-06-0245	15-06-0246

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

42440
Vertical, Dual Row



Features and Benefits
- Blindmating Capabilities
- Standard with drain holes to allow PCB washing after wave soldering (contact Molex for headers without drain holes)
- Fully isolated terminals to protect contacts from damage

Reference Information
Packaging: Tray
UL File No.: E29179
CSA File No.: LR19980
TUV License No.: Pending
Mates With: 44516, 42474 and 5557 dual row receptacles or 42385 PCB receptacles
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
46083*	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: 5.0kg max.

Physical
Housing: 6/6 nylon, UL 94V-2 or 94V-0
Contact: Brass
Plating: 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	15-24-6046	15-24-6047	15-28-6046	15-28-6047	Yes
6	15-24-6066		15-28-6066		
10	15-24-6106	15-24-6107	15-28-6106	15-28-6107	
14	15-24-6146	15-24-6147	15-28-6146	15-28-6147	
18	15-24-6186	15-24-6187	15-28-6186	15-28-6187	
24	15-24-6246	15-24-6247	15-28-6246	15-28-6247	

PRODUCT SPECIFICATION

MINI-FIT BMI

Table of Contents

Section		Page
1.0	Scope	**2**
2.0	Product Description	**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	Applicable Documents and Specifications	**3**
4.0	Ratings	**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	Wire-To-Wire Performance	**6**
	5.1 Electrical Requirements	6
	5.2 Mechanical Requirements	6
	5.3 Environmental Requirements	8
6.0	Wire-To-Board Performance	**9**
	6.1 Electrical Requirements	9
	6.2 Mechanical Requirements	10
	6.3 Environmental Requirements	12
7.0	Board-To-Board Performance	**13**
	7.1 Electrical Requirements	13
	7.2 Mechanical Requirements	14
	7.3 Environmental Requirements	15
8.0	Test Sequences	**15**
9.0	Packaging	**15**

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

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.

4.0 RATINGS

4.1 VOLTAGE

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

4.2 APPLICABLE WIRES

Applicable Wire Gauges and Maximum Insulation Diameter	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

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.

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

5.2 MECHANICAL REQUIREMENTS (continued)

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.
7	**Crimp 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. (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	**Thumb Latch Operation Force**	Depress latch at a rate of 25 ± 6mm (1 ± ¼ inch) per minute.		16.67 N (3.75 lbf) MAXIMUM
11	**Thumb Latch Yield Strength**	Mate loaded connectors fully. Pull connectors apart at a rate of 25 ± 6mm (1 ± ¼ inch) per minute.		68 N (15.29 lbf) MINIMUM

5.2 MECHANICAL REQUIREMENTS (continued)

12	**Panel Insertion and Withdrawal Forces (for 42474)**	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	**Panel Insertion and Withdrawal Forces (for 44516)**	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	**Panel Insertion and Withdrawal Forces (for 42475)**	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
4	**Mixed Flowing Gas**	EIA-364-65 with Class IIa Gas concentrations (Gold plated only)	20 milliohms MAXIMUM Visual: No Damage

6.0 WIRE-TO-BOARD PERFORMANCE

6.1 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

6.2 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	**Solid PC Tail Header Pin 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.	4.45 N (1.00 lbf) MINIMUM retention force
4	**Stamped PC Tail 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
5	**Durability**	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	**Vibration (Random)**	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
7	**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
8	**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.
9	**Crimp 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

6.2 MECHANICAL REQUIREMENTS (continued)

10	**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]	
11	**PCB Engagement And Separation Forces**	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	**Thumb Latch Operation Force**	Depress latch at a rate of 25 ± 6mm (1 ± ¼ inch) per minute.	16.67 N (3.75 lbf) MAXIMUM	
13	**Thumb Latch Yield Strength**	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	**Panel Insertion and Withdrawal Forces (for 42474)**	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	**Panel Insertion and Withdrawal Forces (for 44516)**	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	**Panel Insertion and Withdrawal Forces (for 42475)**	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	

6.3 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
4	**Solderability**	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)
5	**Solder Temperature Heat Transfer Resistance**	Dip connector terminals tail in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: 260 ± 5°C	Visual: No Damage to the insulator where the terminal or pin locks to the connector housing
6	**Mixed Flowing Gas**	EIA-364-65 with Class IIa Gas concentrations (Gold plated only)	20 milliohms MAXIMUM Visual: No Damage

7.0 BOARD-TO-BOARD PERFORMANCE

7.1 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

7.2 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	**Stamped PC Tail 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	**Solid PC Tail Header Pin 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.	4.45 N (1.00 lbf) MINIMUM retention force	
4	**Durability**	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	**Vibration (Random)**	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond	
6	**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	
7	**Normal Force**	Apply a perpendicular force.	1.96 N (200 grams) MINIMUM	
8	**PCB Peg Engagement and Separation Forces**	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.

7.3 ENVIRONMENTAL REQUIREMENTS

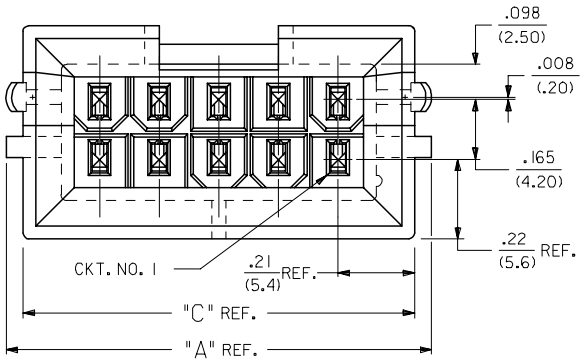
ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	**Thermal Shock**	Mate connectors: expose for 5 cycles Between temperatures –55 and 105° C; Dwell 0.5 hours at each temperature.	20 milliohms MAXIMUM Visual: No Damage Dielectric Strength per 5.1.5 Insulation Resistance per 5.1.4
2	**Thermal Aging**	Mate 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
4	**Solderability**	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)
5	**Solder Temperature Hest Transfer**	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	**Mixed Flowing Gas**	EIA-364-65 with Class IIa Gas concentrations (Gold plated only)	20 milliohms MAXIMUM Visual: No Damage

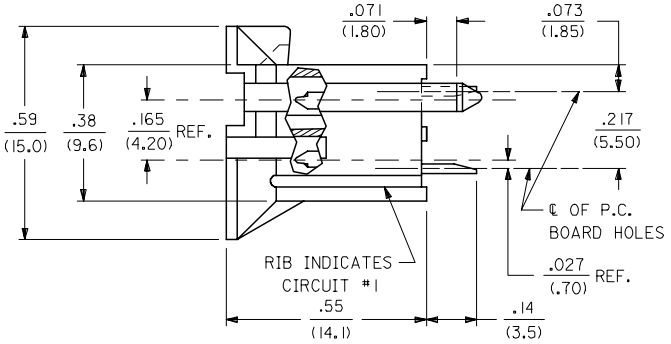
8.0 TEST SEQUENCES

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

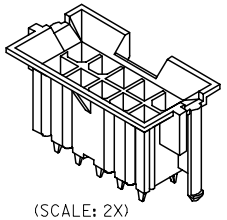
9.0 PACKAGING

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

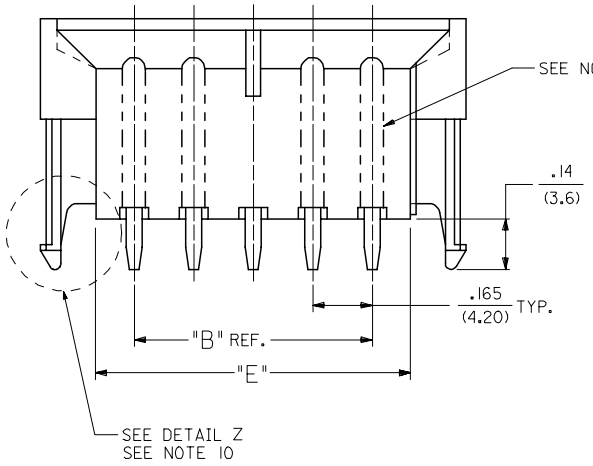


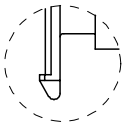


CIRCUIT SIZE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"	DIM. "E"
2	.520 (13.20)	——	.425 (10.80)	.370 (9.40)	.21 (5.4)
4	.685 (17.40)	.17 (4.2)	.590 (15.00)	.535 (13.60)	.38 (9.6)
6	.850 (21.60)	.33 (8.4)	.756 (19.20)	.701 (17.80)	.54 (13.8)
8	1.016 (25.80)	.50 (12.6)	.921 (23.40)	.866 (22.00)	.71 (18.0)
10	1.181 (30.00)	.66 (16.8)	1.087 (27.60)	1.031 (26.20)	.87 (22.2)
12	1.346 (34.20)	.83 (21.0)	1.252 (31.80)	1.197 (30.40)	1.04 (26.4)
14	1.512 (38.40)	.99 (25.2)	1.417 (36.00)	1.362 (34.60)	1.20 (30.6)
16	1.677 (42.60)	1.16 (29.4)	1.583 (40.20)	1.528 (38.80)	1.37 (34.8)
18	1.843 (46.80)	1.32 (33.6)	1.748 (44.40)	1.693 (43.00)	1.54 (39.0)
20	2.008 (51.00)	1.49 (37.8)	1.913 (48.60)	1.858 (47.20)	1.70 (43.2)
22	2.173 (55.20)	1.65 (42.0)	2.079 (52.80)	2.024 (51.40)	1.87 (47.4)
24	2.339 (59.40)	1.82 (46.2)	2.244 (57.00)	2.189 (55.60)	2.03 (51.6)



(SCALE: 2X)



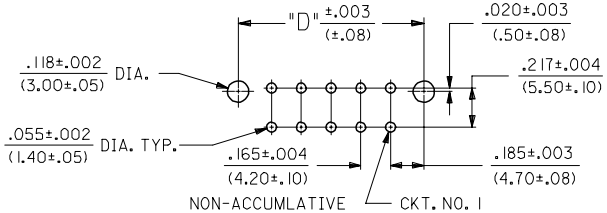


DETAIL "Z"
PEG DESIGN
PRIOR TO 8/11/97

LEGEND:

A - 42440 - ** * *

- BASE NUMBER
- CIRCUIT SIZE (02-24)
- PLATING (SEE NOTE 2.)
- HOUSING MAT'L. & OPTIONS (SEE NOTE 1.)



RECOMMENDED HOLE LAYOUT FOR .070/(1.78) MAX. THICK P.C. BOARD

(SCALE: 2X)

6	P
5	P
4	P
3	P1
2	P
1	P1
SHT	REV

VERT. HEADER A-42440	MATING CONNECTOR	MATING CONNECTOR FEATURES: HSG. MAT'L.	TERM. MAT'L.	PLATING
-**22, -**42	42474-**21, 5556-PBGS*P	94V-0	PHOS. BRZ.	GOLD
-**12, -**32	42474-**11, 5556-PBGS*P	94V-2		
-**22, -**42, -**23, -**43	42474-**21, 5556-GS*P	94V-0	BRASS	GOLD
-**12, -**32, -**13, -**33	42474-**11, 5556-GS*P	94V-2		
-**21, -**41	42474-**21, 5556-PBS*P	94V-0	PHOS. BRZ.	TIN
-**11, -**31	42474-**11, 5556-PBS*P	94V-2		
-**21, -**41	42474-**21, 5556-S*P	94V-0	BRASS	TIN
-**11, -**31	42474-**11, 5556-S*P	94V-2		
-**22, -**42	A-42385-**D2, -**D4	94V-0	PHOS. BRZ.	GOLD
-**12, -**32	A-42385-**C2, -**C4	94V-2		
-**22, -**42, -**23, -**43	A-42385-**B2, -**B4	94V-0	BRASS	GOLD
-**12, -**32, -**13, -**33	A-42385-**A2, -**A4	94V-2		
-**21, -**41	A-42385-**D1	94V-0	PHOS. BRZ.	TIN
-**11, -**31	A-42385-**C1	94V-2		
-**21, -**41	A-42385-**B1	94V-0	BRASS	TIN
-**11, -**31	A-42385-**A1	94V-2		

SHEET 3, NOTE #9
EC NO: UCP2007-2479 2007/04/04
DRWN:LSCHMIDT 2007/04/11
CHKD:JBELL 2007/04/16
APPR:FSMITH
DESCRIPTION
P1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---

ANGULAR ± 5 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	DATE
GEP	1989/04/06
CHECKED BY	DATE
RJF	1989/04/06
APPROVED BY	DATE
RAS	1989/04/06

TITLE: MINI-FIT B.M.I.
VERTICAL HEADER ASSY
WITH DRAIN HOLE OPTION

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-42440-****
SHEET NO.: 1 OF 6

SIZE C

NOTES:
1) MATERIAL:
HOUSING MATERIAL AND OPTIONS:
1 = NYLON 6/6, UL 94V-2, COLOR: NATURAL, WITHOUT DRAIN HOLES
2 = NYLON 6/6, UL 94V-0, COLOR: NATURAL, WITHOUT DRAIN HOLES
3 = NYLON 6/6, UL 94V-2, COLOR: NATURAL, WITH DRAIN HOLES
4 = NYLON 6/6, UL 94V-0, COLOR: NATURAL, WITH DRAIN HOLES
TERMINALS: BRASS
2) TERMINAL PLATING:
S = .000100/(0.00254) MIN. BRIGHT TIN OVER .000050/(0.00127) MIN. NICKEL
*GS = .000030/(0.00076) MIN. SELECT GOLD AND .000100/(0.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL
*GS3 = .000050/(0.00127) MIN. SELECT GOLD AND .000100/(0.00254) MIN. SELECT MATTE TIN OVER .000050/(.00127) MIN. NICKEL OVERALL
*THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 200/53/EC", CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.
3) PRODUCT SPECIFICATION AND PROCESSING PARAMETERS: PS-5556-002
4) PACKAGING: SEE CHARTS
5) 6-24 CIRCUIT PARTS MATE WITH MINI-FIT JR. RECEPTACLES #5557 AND HEADERS #42385 AND #42474, 2 AND 4 CIRCUIT PARTS MATE WITH 42385 AND 42474 HEADERS ONLY.
6) PART ALLOWS FOR UP TO .100/(2.54) MISALIGNMENT WITH MATING RECEPTACLE IN ANY DIRECTION. SEE MATING CONNECTOR DRAWINGS FOR SPECIFIC ALLOWANCES.
7) CONNECTOR IS NOT DESIGNED FOR CURRENT SHARING.
8) CONNECTOR ASSEMBLIES ARE NOT BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
9) OPTIONAL RIBS MAY BE FOUND ON PARTS MANUFACTURED AFTER 08/11/1997. RIB LOCATION IS DETERMINED BY MOLD DESIGN FOR MANUFACTURING EASE AND THE LOCATION DOES NOT AFFECT PART FUNCTION OR PERFORMANCE. LOCATION OF RIBS MAY VARY ON PARTS WITHIN MAUFACTURING LOT OR SHIPMENT. THIS DRAWING SHOWS TYPICAL RIB LOCATIONS.
10) PARTS MANUFACTURED AFTER 8/15/1997 MAY HAVE REVISED LOCK PEG.
11) PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

SEE SHEET ONE
EC NO: UCP2007-2479 2007/04/04
DRWN:LSCHMIDT 2007/04/11
CHKD:JBELL 2007/04/16
APPR:FSMITH
DESCRIPTION
REV
P1

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY	GEP
DATE	1989/04/06
CHECKED BY	RJF
DATE	1989/04/06
APPROVED BY	RAS
DATE	1989/04/06

TITLE: MINI-FIT B.M.I. VERTICAL HEADER ASSY WITH DRAIN HOLE OPTION

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-42440-****
SHEET NO.: 3 OF 6
SIZE: C

PLATING:	TIN (SEE NOTE 2 OPTION "S")			PLATING:	TIN (SEE NOTE 2 OPTION "S")			PLATING:	30 M.I. SELECT GOLD (SEE NOTE 2 OPTION "GS")			PLATING:	30 M.I. SELECT GOLD (SEE NOTE 2 OPTION "GS")		
DRAINS:	WITHOUT DRAIN HOLES			DRAINS:	WITHOUT DRAIN HOLES			DRAINS:	WITHOUT DRAIN HOLES			DRAINS:	WITHOUT DRAIN HOLES		
PEGS:	WITH PEGS			PEGS:	WITH PEGS			PEGS:	WITH PEGS			PEGS:	WITH PEGS		
MAT'L:	94V-2 [NATURAL]			MAT'L:	94V-0 [NATURAL]			MAT'L:	94V-2 [NATURAL]			MAT'L:	94V-0 [NATURAL]		
PACKAGING:	TRAY PER PK-42440-001			PACKAGING:	TRAY PER PK-42440-001			PACKAGING:	TRAY PER PK-42440-001			PACKAGING:	TRAY PER PK-42440-001		
PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS
NO EDP	A-42440-0211	-	2	NO EDP	A-42440-0221	-	2	NO EDP	A-42440-0212	-	2	NO EDP	A-42440-0222	-	2
15-24-6041	A-42440-0411	-	4	15-24-6042	A-42440-0421	-	4	15-28-6041	A-42440-0412	-	4	15-28-6042	A-42440-0422	-	4
NO EDP	A-42440-0611	-	6	NO EDP	A-42440-0621	-	6	NO EDP	A-42440-0612	-	6	NO EDP	A-42440-0622	-	6
NO EDP	A-42440-0811	-	8	NO EDP	A-42440-0821	-	8	NO EDP	A-42440-0812	-	8	NO EDP	A-42440-0822	-	8
15-24-6101	A-42440-1011	-	10	15-24-6102	A-42440-1021	-	10	15-28-6101	A-42440-1012	-	10	15-28-6102	A-42440-1022	-	10
NO EDP	A-42440-1211	-	12	NO EDP	A-42440-1221	-	12	NO EDP	A-42440-1212	-	12	NO EDP	A-42440-1222	-	12
15-24-6141	A-42440-1411	-	14	15-24-6142	A-42440-1421	-	14	15-28-6141	A-42440-1412	-	14	15-28-6142	A-42440-1422	-	14
15-24-6161	A-42440-1611	-	16	15-24-6162	A-42440-1621	-	16	15-28-6161	A-42440-1612	-	16	NO EDP	A-42440-1622	-	16
15-24-6181	A-42440-1811	-	18	15-24-6182	A-42440-1821	-	18	15-28-6181	A-42440-1812	-	18	15-28-6182	A-42440-1822	-	18
NO EDP	A-42440-2011	-	20	NO EDP	A-42440-2021	-	20	NO EDP	A-42440-2012	-	20	NO EDP	A-42440-2022	-	20
NO EDP	A-42440-2211	-	22	NO EDP	A-42440-2221	-	22	NO EDP	A-42440-2212	-	22	NO EDP	A-42440-2222	-	22
15-24-6241	A-42440-2411	-	24	15-24-6242	A-42440-2421	-	24	15-28-6241	A-42440-2412	-	24	15-28-6242	A-42440-2422	-	24
	-	-			-	-			-	-			-	-	
	-	-			-	-			-	-			-	-	

PLATING:	TIN (SEE NOTE 2 OPTION "S")			PLATING:	TIN (SEE NOTE 2 OPTION "S")			PLATING:	30 M.I. SELECT GOLD (SEE NOTE 2 OPTION "GS")			PLATING:	30 M.I. SELECT GOLD (SEE NOTE 2 OPTION "GS")		
DRAINS:	WITH DRAIN HOLES			DRAINS:	WITH DRAIN HOLES			DRAINS:	WITH DRAIN HOLES			DRAINS:	WITH DRAIN HOLES		
PEGS:	WITH PEGS			PEGS:	WITH PEGS			PEGS:	WITH PEGS			PEGS:	WITH PEGS		
MAT'L:	94V-2 [NATURAL]			MAT'L:	94V-0 [NATURAL]			MAT'L:	94V-2 [NATURAL]			MAT'L:	94V-0 [NATURAL]		
PACKAGING:	TRAY PER PK-42440-001			PACKAGING:	TRAY PER PK-42440-001			PACKAGING:	TRAY PER PK-42440-001			PACKAGING:	TRAY PER PK-42440-001		
PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS
NO EDP	A-42440-0231	-	2	NO EDP	A-42440-0241	-	2	NO EDP	A-42440-0232	-	2	NO EDP	A-42440-0242	-	2
15-24-6046	A-42440-0431	-	4	15-24-6047	A-42440-0441	-	4	15-28-6046	A-42440-0432	-	4	15-28-6047	A-42440-0442	-	4
15-24-6066	A-42440-0631	-	6	NO EDP	A-42440-0641	-	6	15-28-6066	A-42440-0632	-	6	NO EDP	A-42440-0642	-	6
NO EDP	A-42440-0831	-	8	NO EDP	A-42440-0841	-	8	NO EDP	A-42440-0832	-	8	NO EDP	A-42440-0842	-	8
15-24-6106	A-42440-1031	-	10	15-24-6107	A-42440-1041	-	10	15-28-6106	A-42440-1032	-	10	15-28-6107	A-42440-1042	-	10
NO EDP	A-42440-1231	-	12	NO EDP	A-42440-1241	-	12	NO EDP	A-42440-1232	-	12	NO EDP	A-42440-1242	-	12
15-24-6146	A-42440-1431	-	14	15-24-6147	A-42440-1441	-	14	15-28-6146	A-42440-1432	-	14	15-28-6147	A-42440-1442	-	14
NO EDP	A-42440-1631	-	16	NO EDP	A-42440-1641	-	16	NO EDP	A-42440-1632	-	16	NO EDP	A-42440-1642	-	16
15-24-6186	A-42440-1831	-	18	15-24-6187	A-42440-1841	-	18	15-28-6186	A-42440-1832	-	18	15-28-6187	A-42440-1842	-	18
NO EDP	A-42440-2031	-	20	NO EDP	A-42440-2041	-	20	NO EDP	A-42440-2032	-	20	NO EDP	A-42440-2042	-	20
NO EDP	A-42440-2231	-	22	NO EDP	A-42440-2241	-	22	NO EDP	A-42440-2232	-	22	NO EDP	A-42440-2242	-	22
15-24-6246	A-42440-2431	-	24	15-24-6247	A-42440-2441	-	24	15-28-6246	A-42440-2432	-	24	15-28-6247	A-42440-2442	-	24
	-	-			-	-			-	-			-	-	
	-	-			-	-			-	-			-	-	

STANDARDIZE NOTES
EC NO: UCP2007-2152
DRWN:LSCHMIDT 2007/03/12
CH'KD:ADERR 2007/03/19
APPR:FSMITH 2007/03/19
DESCRIPTION
REV: D

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: GEP DATE: 1995/03/03
CHECKED BY: RJF DATE: 1995/03/03
APPROVED BY: RJF DATE: 1995/03/03

TITLE: MINI-FIT B.M.I.
VERTICAL HEADER ASSY
WITH DRAIN HOLE OPTION

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-42440-****
SHEET NO.: 4 OF 6

SIZE: C

PLATING:	50 M.I. SELECT GOLD (SEE NOTE 2 OPTION "GS3")		
DRAINS:	WITHOUT DRAIN HOLES		
PEGS:	WITH PEGS		
MAT'L:	94V-2 [NATURAL]		
PACKAGING:	TRAY PER PK-42440-001		
PART NO.	ENG NO.		CKTS
NO EDP	A-42440-0213	-	2
NO EDP	A-42440-0413	-	4
NO EDP	A-42440-0613	-	6
NO EDP	A-42440-0813	-	8
NO EDP	A-42440-1013	-	10
NO EDP	A-42440-1213	-	12
NO EDP	A-42440-1413	-	14
NO EDP	A-42440-1613	-	16
NO EDP	A-42440-1813	-	18
NO EDP	A-42440-2013	-	20
NO EDP	A-42440-2213	-	22
NO EDP	A-42440-2413	-	24
	-	-	
	-	-	

PLATING:	50 M.I. SELECT GOLD (SEE NOTE 2 OPTION "GS3")		
DRAINS:	WITHOUT DRAIN HOLES		
PEGS:	WITH PEGS		
MAT'L:	94V-0 [NATURAL]		
PACKAGING:	TRAY PER PK-42440-001		
PART NO.	ENG NO.		CKTS
NO EDP	A-42440-0223	-	2
NO EDP	A-42440-0423	-	4
NO EDP	A-42440-0623	-	6
NO EDP	A-42440-0823	-	8
NO EDP	A-42440-1023	-	10
NO EDP	A-42440-1223	-	12
NO EDP	A-42440-1423	-	14
NO EDP	A-42440-1623	-	16
NO EDP	A-42440-1823	-	18
NO EDP	A-42440-2023	-	20
NO EDP	A-42440-2223	-	22
NO EDP	A-42440-2423	-	24
	-	-	
	-	-	

PLATING:	50 M.I. SELECT GOLD (SEE NOTE 2 OPTION "GS3")		
DRAINS:	WITH DRAIN HOLES		
PEGS:	WITH PEGS		
MAT'L:	94V-2 [NATURAL]		
PACKAGING:	TRAY PER PK-42440-001		
PART NO.	ENG NO.		CKTS
NO EDP	A-42440-0233	-	2
NO EDP	A-42440-0433	-	4
NO EDP	A-42440-0633	-	6
NO EDP	A-42440-0833	-	8
NO EDP	A-42440-1033	-	10
NO EDP	A-42440-1233	-	12
NO EDP	A-42440-1433	-	14
NO EDP	A-42440-1633	-	16
NO EDP	A-42440-1833	-	18
NO EDP	A-42440-2033	-	20
NO EDP	A-42440-2233	-	22
NO EDP	A-42440-2433	-	24
	-	-	
	-	-	

PLATING:	50 M.I. SELECT GOLD (SEE NOTE 2 OPTION "GS3")		
DRAINS:	WITH DRAIN HOLES		
PEGS:	WITH PEGS		
MAT'L:	94V-0 [NATURAL]		
PACKAGING:	TRAY PER PK-42440-001		
PART NO.	ENG NO.		CKTS
NO EDP	A-42440-0243	-	2
NO EDP	A-42440-0443	-	4
NO EDP	A-42440-0643	-	6
NO EDP	A-42440-0843	-	8
NO EDP	A-42440-1043	-	10
NO EDP	A-42440-1243	-	12
NO EDP	A-42440-1443	-	14
NO EDP	A-42440-1643	-	16
NO EDP	A-42440-1843	-	18
NO EDP	A-42440-2043	-	20
NO EDP	A-42440-2243	-	22
NO EDP	A-42440-2443	-	24
	-	-	
	-	-	

PLATING:		
DRAINS:		
PEGS:		
MAT'L:		
PACKAGING:		
ITEM NO.		CKTS
-	-	2
-	-	4
-	-	6
-	-	8
-	-	10
-	-	12
-	-	14
-	-	16
-	-	18
-	-	20
-	-	22
-	-	24

PLATING:		
DRAINS:		
PEGS:		
MAT'L:		
PACKAGING:		
ITEM NO.		CKTS
-	-	2
-	-	4
-	-	6
-	-	8
-	-	10
-	-	12
-	-	14
-	-	16
-	-	18
-	-	20
-	-	22
-	-	24

PLATING:		
DRAINS:		
PEGS:		
MAT'L:		
PACKAGING:		
ITEM NO.		CKTS
-	-	2
-	-	4
-	-	6
-	-	8
-	-	10
-	-	12
-	-	14
-	-	16
-	-	18
-	-	20
-	-	22
-	-	24

PLATING:		
DRAINS:		
PEGS:		
MAT'L:		
PACKAGING:		
ITEM NO.		CKTS
-	-	2
-	-	4
-	-	6
-	-	8
-	-	10
-	-	12
-	-	14
-	-	16
-	-	18
-	-	20
-	-	22
-	-	24

STANDARDIZE NOTES
EC NO: UCP2007-2152
DRWN:LSCHMIDT 2007/03/12
CH'KD:ADERR 2007/03/19
APPR:FSMITH 2007/03/19
DESCRIPTION
P
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: ERH DATE: 2000/02/23
CHECKED BY: MB DATE: 2000/02/23
APPROVED BY: RE DATE: 2000/02/23

TITLE: MINI-FIT B.M.I. VERTICAL HEADER ASSY WITH DRAIN HOLE OPTION

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-42440-****
SHEET NO.: 5 OF 6
SIZE: C

tb_frame_C_P_ME_T
Rev. E 2006/04/15

PLATING:	TIN (SEE NOTE 2 OPTION 'S')
DRAINS:	WITH DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-2 [NATURAL]
PACKAGING:	TUBE PER PK-40873-0151

ITEM NO.		CKTS
-	-	2
42440-3049	-	4
42440-3050	-	6
-	-	8
42440-3052	-	10
-	-	12
42440-3054	-	14
-	-	16
42440-3056	-	18
-	-	20
-	-	22
42440-3059	-	24

PLATING:	TIN (SEE NOTE 2 OPTION 'S')
DRAINS:	WITH DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-0 [NATURAL]
PACKAGING:	TUBE PER PK-40873-0151

ITEM NO.		CKTS
-	-	2
42440-3061	-	4
-	-	6
-	-	8
42440-3064	-	10
-	-	12
42440-3066	-	14
-	-	16
42440-3068	-	18
-	-	20
-	-	22
42440-3071	-	24

PLATING:	30 M.I. SELECT GOLD (SEE NOTE 2 OPTION 'GS')
DRAINS:	WITH DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-2 [NATURAL]
PACKAGING:	TUBE PER PK-40873-0151

ITEM NO.		CKTS
-	-	2
42440-3073	-	4
42440-3074	-	6
-	-	8
42440-3076	-	10
-	-	12
42440-3078	-	14
-	-	16
42440-3080	-	18
-	-	20
-	-	22
42440-3083	-	24

PLATING:	30 M.I. SELECT GOLD (SEE NOTE 2 OPTION 'GS')
DRAINS:	WITH DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-0 [NATURAL]
PACKAGING:	TUBE PER PK-40873-0151

ITEM NO.		CKTS
-	-	2
42440-3085	-	4
-	-	6
-	-	8
42440-3088	-	10
-	-	12
42440-3090	-	14
-	-	16
42440-3092	-	18
-	-	20
-	-	22
42440-3095	-	24

PLATING:	50 M.I. SELECT GOLD (SEE NOTE 2 OPTION 'GS3')
DRAINS:	WITHOUT DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-2 [NATURAL]
PACKAGING:	TUBE PER PK-40873-0151

ITEM NO.		CKTS
-	-	2
-	-	4
-	-	6
-	-	8
-	-	10
-	-	12
-	-	14
-	-	16
-	-	18
-	-	20
-	-	22
-	-	24

PLATING:	50 M.I. SELECT GOLD (SEE NOTE 2 OPTION 'GS3')
DRAINS:	WITHOUT DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-0 [NATURAL]
PACKAGING:	TUBE PER PK-40873-0151

ITEM NO.		CKTS
-	-	2
-	-	4
-	-	6
-	-	8
-	-	10
-	-	12
-	-	14
-	-	16
-	-	18
-	-	20
-	-	22
-	-	24

PLATING:	50 M.I. SELECT GOLD (SEE NOTE 2 OPTION 'GS3')
DRAINS:	WITH DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-2 [NATURAL]
PACKAGING:	TUBE PER PK-40873-0151

ITEM NO.		CKTS
-	-	2
-	-	4
-	-	6
-	-	8
-	-	10
-	-	12
-	-	14
-	-	16
-	-	18
-	-	20
-	-	22
-	-	24

PLATING:	50 M.I. SELECT GOLD (SEE NOTE 2 OPTION 'GS3')
DRAINS:	WITH DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-0 [NATURAL]
PACKAGING:	TUBE PER PK-40873-0151

ITEM NO.		CKTS
-	-	2
-	-	4
-	-	6
-	-	8
-	-	10
-	-	12
-	-	14
-	-	16
-	-	18
-	-	20
-	-	22
-	-	24

STANDARDIZE NOTES
EC NO: UCP2007-2152
DRWN:LSCHMIDT 2007/03/12
CH'KD:ADERR 2007/03/19
APPR:FSMITH 2007/03/19
REV: P
DESCRIPTION

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	IN/MM
SCALE	---
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	ERH
DATE	2000/02/23
CHECKED BY	MB
DATE	2000/02/23
APPROVED BY	RE
DATE	2000/02/23
MATERIAL NO.	SEE CHART
SIZE	C
TITLE	MINI-FIT B.M.I. VERTICAL HEADER ASSY WITH DRAIN HOLE OPTION
	MOLEX INCORPORATED
DOCUMENT NO.	SDA-42440-****
SHEET NO.	6 OF 6