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Part Number: 0015060060
Status: Active
Overview: Mini-Fit BMI Connectors
Description: Mini-Fit BMI Receptacle Housing, 4.20mm Pitch, Dual Row with Panel Mount Ears, PA Polyamide Nylon 6/6, UL 94V-2, 6 Circuits

Documents:

- Drawing (PDF)
- 3D Model
- Product Specification PS-45750-001-001 (PDF)
- Product Specification PS-5556-002-001 (PDF)
- Packaging Specification PK-42474-001-001 (PDF)
- Test Summary TS-5556-002-001 (PDF)
- RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Crimp Housings
Series	42474
3D Viewer	Yes
Application	Power, Wire-to-Board, Wire-to-Wire
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 series terminals crimped to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current derating information.
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Overview

Product Name	Mini-Fit BMI
UPC	800753689022

Physical

Breakaway	No
Circuits (maximum)	6
Color - Resin	Natural
Flammability	94V-2
Gender	Receptacle
Glow-Wire Capable	No
Lock to Mating Part	None
Material - Resin	Nylon
Net Weight	3.609/g
Number of Rows	2
Packaging Type	Bag
Panel Mount	Yes
Pitch - Mating Interface	4.20mm
Pitch - Termination Interface	4.20mm
Polarized to Mating Part	Yes
Stackable	No
Temperature Range - Operating	-40° to +105°C

Electrical

Current - Maximum per Contact	13.0A
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Solder Process Data



Series image - Reference only

EU ELV

Not Relevant

EU RoHS

Compliant

China RoHS

REACH SVHC

Not Contained Per - ED/71/2019 (16 July 2019)

Halogen-Free

Status

Low-Halogen

For more information, please visit [Contact US](#)

China ROHS	Green Image
ELV	Not Relevant
RoHS Phthalates	Not Contained

Search Parts in this Series

42474 Series

Mates With

42475 MiniFit BMI Plug Housing. 43879 MiniFit CPI Header. MiniFit BMI Header 42404 , 42440. MiniFit SMC Surface Mount Compatible Header 43810 , 44068

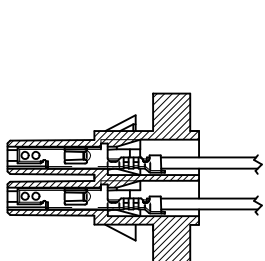
Use With

5556 Mini-Fit Female Crimp Terminals, 45750 Mini-Fit Plus HCS Crimp Terminal

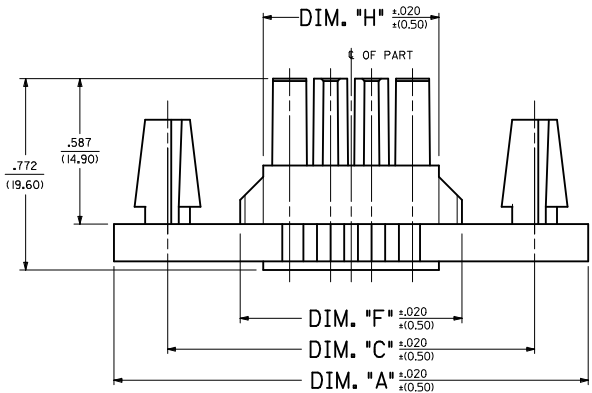
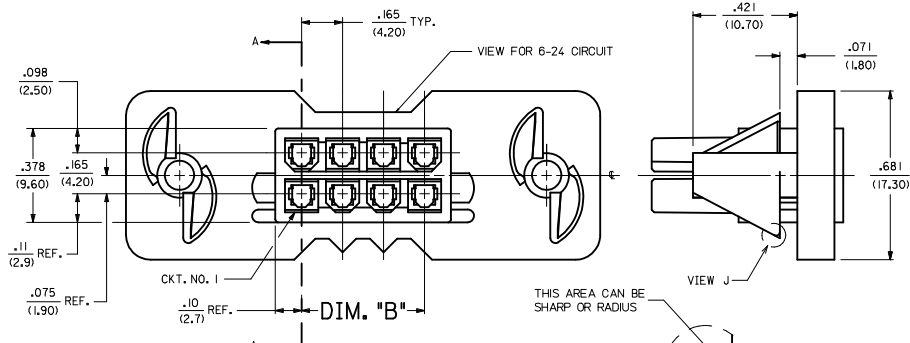
Lead-free	Process Capability	N/A
Material Info		
	Engineering Number	42474-0611
Reference - Drawing Numbers		
	Packaging Specification	PK-42474-001-001
	Product Specification	PS-45750-001-001, PS-5556-002-001
	Sales Drawing	SD-42474-XXXX
	Test Summary	TS-5556-002-001

This document was generated on 08/22/2019

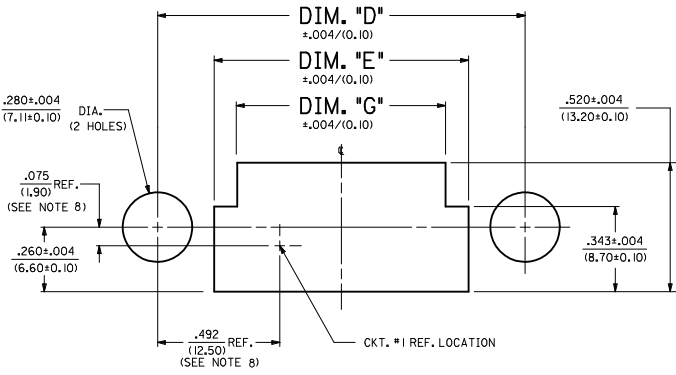
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SECTION "A-A"
TERMINAL ORIENTATION

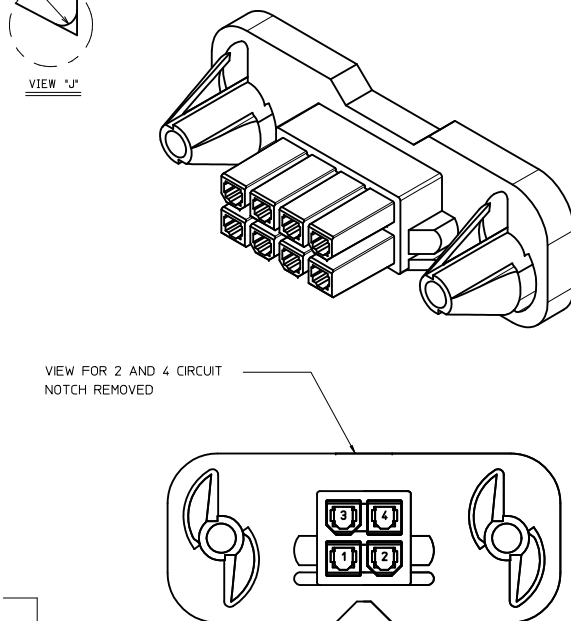


2-8 & 12-24 CIRCUIT HEADER
(SEE SHEET 2 FOR 10 CIRCUIT HEADER DESIGN)



RECOMMENDED PANEL CUT-OUT FOR .050±0.12/(11.27±0.30) THICK PANEL
(SEE NOTE 10)

LEGEND:
42474 - ** * I
BASE NUMBER
CIRCUIT SIZE
(02-24)
MATERIAL
(SEE NOTE 1.)



CKT. SIZE	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'	DIM. 'E'	DIM. 'F'	DIM. 'G'	DIM. 'H'
2	.1417 (36.00)	N/A	.984 (25.00)	.984 (25.00)	.528 (13.40)	.398 (10.10)	.343 (8.70)	.213 (5.40)
4	.1583 (40.20)	.165 (4.20)	.150 (38.10)	.150 (38.10)	.693 (17.60)	.563 (14.30)	.508 (12.90)	.378 (9.60)
6	.1749 (44.40)	.181 (4.60)	.165 (41.80)	.165 (41.80)	.898 (22.80)	.728 (18.50)	.673 (17.10)	.543 (13.80)
8	.1913 (48.60)	.196 (5.00)	.180 (45.70)	.180 (45.70)	1.024 (26.00)	.894 (22.70)	.839 (21.30)	.709 (18.00)
10	.2078 (52.80)	.208 (5.30)	.195 (49.80)	.195 (49.80)	1.149 (29.20)	.1.029 (26.20)	.974 (24.80)	.844 (21.50)
12	.2244 (57.00)	.227 (5.80)	.210 (53.30)	.210 (53.30)	1.274 (32.40)	1.124 (28.70)	1.069 (27.20)	.939 (23.90)
14	.2409 (61.20)	.243 (6.20)	.225 (57.10)	.225 (57.10)	1.399 (35.50)	1.249 (31.70)	1.194 (30.30)	1.064 (27.00)
16	.2575 (65.40)	.260 (6.60)	.240 (61.00)	.240 (61.00)	1.524 (38.70)	1.374 (34.90)	1.319 (33.50)	1.189 (30.20)
18	.2740 (69.60)	.277 (7.00)	.255 (64.80)	.255 (64.80)	1.649 (41.90)	1.499 (38.00)	1.444 (36.70)	1.314 (33.40)
20	.2906 (73.80)	.293 (7.40)	.270 (68.60)	.270 (68.60)	1.774 (45.20)	1.624 (41.40)	1.569 (40.00)	1.439 (36.50)
22	.3071 (78.00)	.310 (7.90)	.285 (72.90)	.285 (72.90)	1.899 (48.20)	1.749 (44.50)	1.694 (43.10)	1.564 (39.70)
24	.3237 (82.20)	.326 (8.30)	.300 (76.20)	.300 (76.20)	2.024 (51.40)	1.874 (47.60)	1.819 (46.20)	1.689 (42.90)

NOTES:

- MATERIAL:
*1= NYLON 6/6, 94V-2, COLOR: NATURAL.
*2= NYLON 6/6, 94V-0, COLOR: NATURAL.
*3= NYLON 6/6, 94V-2, COLOR: BLACK.
*4= NYLON 6/6, 94V-0, COLOR: BLACK.
- FINISH: NOT APPLICABLE.
- PRODUCT SPECIFICATION: PS-5556-002
- PACKAGING: PK-42474-001
- PART MATES WITH MINI-FIT B.M.I. PLUG #42475, AND HEADERS 42404, 42440, 43810, 44068 & 43879.
- PART TO BE USED WITH MOLEX FEMALE TERMINAL #5556.
- THIS CONNECTOR ALLOWS FOR .050/(1.27) MAX. MISALIGNMENT IN ANY DIRECTION.
- THIS DIMENSION TO BE USED FOR ALIGNMENT OF THE MATING CONNECTOR.
- CONNECTOR ASSEMBLIES ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
- THIS PART IS INTENDED FOR ONE PANEL INSERTION ONLY. REMOVAL AND RE-INSERTION CAN DAMAGE THE MOUNTING SPIRALS.
- PANEL SHOULD BE PUNCHED IN THE DIRECTION OF CONNECTOR INSERTION.
- BOTH SPIRALS SHOULD BE INSERTED INTO THE PANEL AT THE SAME TIME. ROCKING THE PART INTO PLACE MAY CAUSE SPIRAL DAMAGE.
- THIS PART IS NOT INTENDED TO PROVIDE ANY ALIGNMENT OF CUSTOMER COMPONENTS OR MODULES, SUCH AS POWER SUPPLIES AND CHASSIS.
- IF THIS PRODUCT IS STORED IN AN ENVIRONMENT WITH A RELATIVE HUMIDITY OF LESS THAN 50%, MOISTURE MUST BE ADDED. REFER TO TECHNICAL ADVISORY AS-45499-001 FOR INSTRUCTIONS.
- 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.
- WIRES ARE TO BE DRESSED IN SUCH A MANNER TO ALLOW THE TERMINALS TO FLOAT FREELY IN THE POCKET.
- PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

UPDATED TOLERANCE DEC NO. 1/CP 2011-0682 DRAWN: J. JAGUILAR 2010/09/10 CHKD: J. BELL 2010/09/10 APPROVED: M. TH 2010/09/17 REV PS	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .015 2 PLACES ± 0.38 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1/2°	DIMENSION STYLE IN/MM DRAWN BY GEP CHECKED BY R.J.F. APPROVED BY R.A.S. DATE 1989/08/24 DATE 1989/08/24 DATE 1989/08/24	SCALE 1:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE PANEL-MOUNT RECEPTACLE BLIND MATE MINI-FIT JR. SERIES MOLEX INCORPORATED	MATERIAL NO. SD-42474-**** DOCUMENT NO.	SHEET NO. 1 OF 2

