

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0015060065

Status:

Active

Overview:

Mini-Fit BMI Connectors

Description:

Mini-Fit BMI Plug 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)

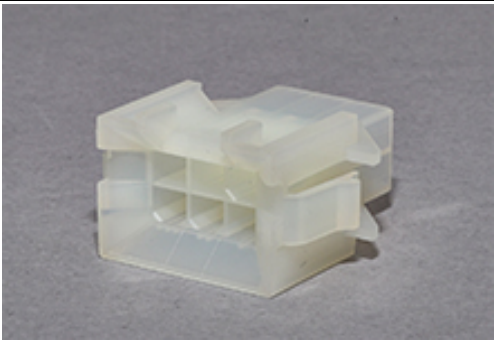
Packaging Specification PK-42474-001-001 (PDF)

Test Summary TS-42475-001-001 (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	42475
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.
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.
Overview	Mini-Fit BMI Connectors
Product Name	Mini-Fit BMI
UPC	800755528237
Physical	
Circuits (maximum)	6
Color - Resin	Natural
Flammability	94V-2
Gender	Plug
Glow-Wire Capable	No
Lock to Mating Part	Yes
Material - Resin	Nylon
Net Weight	2.978/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
Solder Process Data	
Lead-freeProcess Capability	N/A



Series image - Reference only

EU ELV	
Not Relevant	
EU RoHS	China RoHS
Compliant	
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

42475 Series

Mates With

15060060 MiniFit BMI Panel Mount Receptacle, 42385 MiniFit BMI 6 Circuit, UL 94V2 Vertical Receptacle Headers, 444750611 MiniFit HCS BMI Vertical Receptacle Header, 39012060 MiniFit Jr. Receptacle

Use With

46012 Mini-Fit Plus HCS Crimp Terminal, 5558 Mini-Fit Crimp Terminal

Material Info

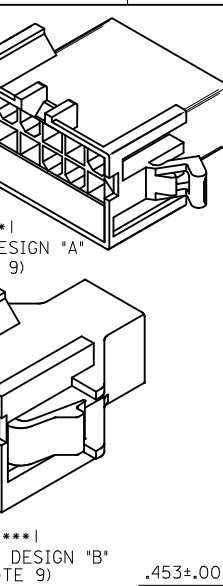
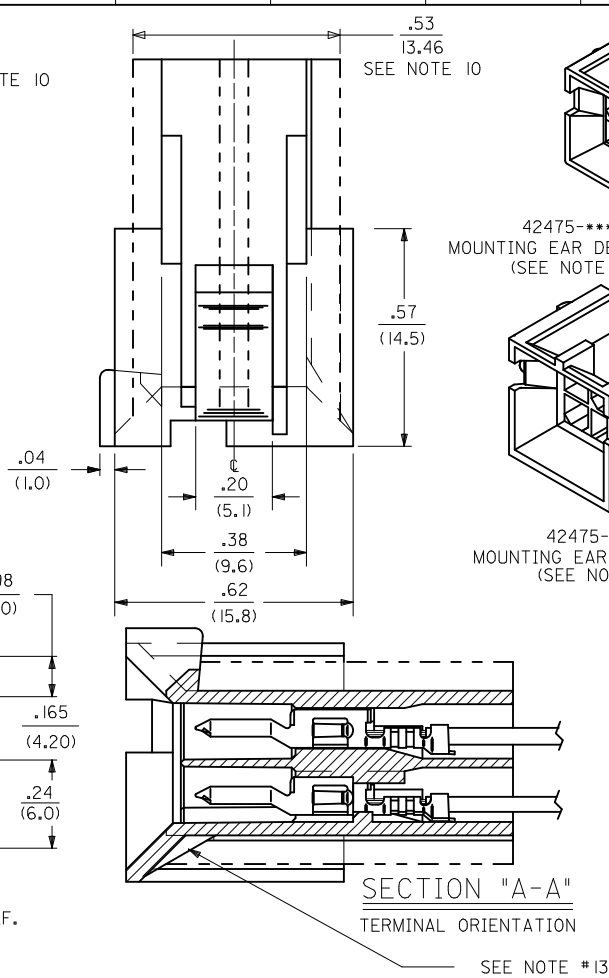
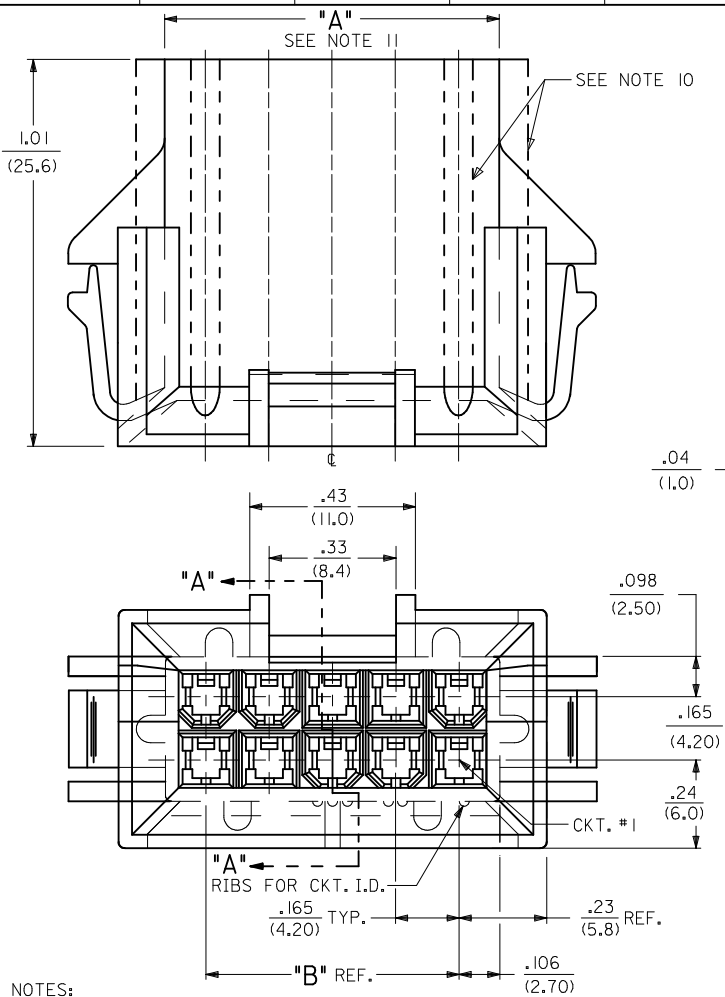
Engineering Number 42475-0611

Reference - Drawing Numbers

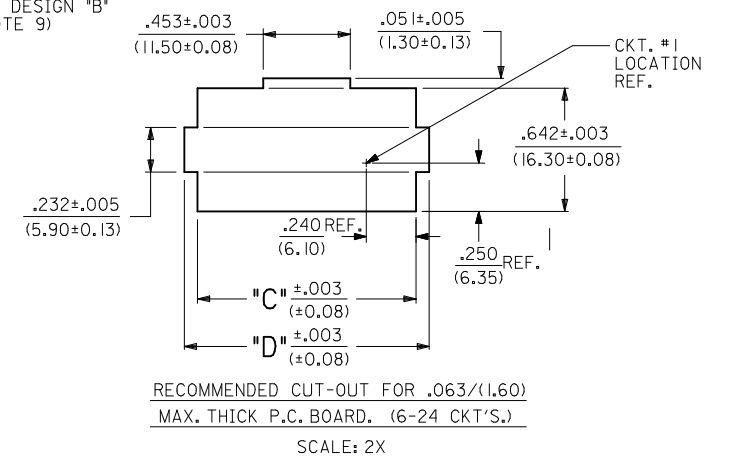
Packaging Specification PK-42474-001-001
Product Specification PS-45750-001-001, PS-5556-002-001
Sales Drawing SD-42475-XXX1
Test Summary TS-42475-001-001, TS-5556-002-001

This document was generated on 08/19/2019

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION



CIRCUIT SIZE	DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D"
6	.54 (13.8)	.33 (8.4)	.807 (20.50)	.945 (24.00)
8	.71 (18.0)	.50 (12.6)	.972 (24.70)	1.110 (28.20)
10	.87 (22.2)	.66 (16.8)	1.138 (28.90)	1.276 (32.40)
12	1.04 (26.4)	.83 (21.0)	1.303 (33.10)	1.441 (36.60)
14	1.20 (30.6)	.99 (25.2)	1.469 (37.30)	1.606 (40.80)
16	1.37 (34.8)	1.16 (29.4)	1.643 (41.50)	1.772 (45.00)
18	1.54 (39.0)	1.32 (33.6)	1.799 (45.70)	1.937 (49.20)
20	1.70 (43.2)	1.49 (37.8)	1.965 (49.90)	2.102 (53.40)
22	1.87 (47.4)	1.65 (42.0)	2.130 (54.10)	2.268 (57.60)
24	2.03 (51.6)	1.82 (46.2)	2.295 (58.30)	2.433 (61.80)



- NOTES:
- 1) MATERIAL:
 - 1 = NYLON (PA6/6), UNFILLED, UL94 V-2, COLOR: NATURAL
 - 2 = NYLON (PA6/6), UNFILLED, UL94 V-0, COLOR: NATURAL
 - 3 = NYLON (PA6/6), UNFILLED, UL94 V-2, COLOR: BLACK
 - 4 = NYLON (PA6/6), UNFILLED, UL94 V-0, COLOR: BLACK
 - 2) FINISH NOT APPLICABLE.
 - 3) THIS PART CONFORMS TO MOLEX PRODUCT SPEC. NO. PS-5556-002.
 - 4) PACKAGING: PK-42474-001
 - 5) 6-24 CKT. PARTS MATE WITH MOLEX RECEPTACLES 5557, 42385 AND 42474. 2 AND 4 CKT. PARTS MATE WITH 42385 AND 42474 ONLY.
 - 6) PART IS FOR USE WITH MALE TERMINAL #5558.
 - 7) PART ALLOWS FOR UP TO .100/(2.54) MISALIGNMENT WITH MATING RECEPTACLE IN ANY DIRECTION. SEE MATING CONNECTOR DRAWINGS FOR SPECIFIC ALLOWANCES.
 - 8) PANEL CUT-OUT TO BE PUNCHED IN THE SAME DIRECTION AS CONNECTOR INSERTION.
 - 9) PARTS MANUFACTURED AFTER 95/12/31 MAY HAVE MOUNTING EAR DESIGN "B" PARTS WITH MOUNTING EAR DESIGN "A" WILL BE OBSOLETE AS TOOL LIFE DICTATES. IN SOME CASES, PARTS MAY BE AVAILABLE WITH BOTH MOUNTING EAR DESIGNS. SEE CHART ON SHEET 4 FOR SPECIFIC EAR DESIGN AVAILABILITY.

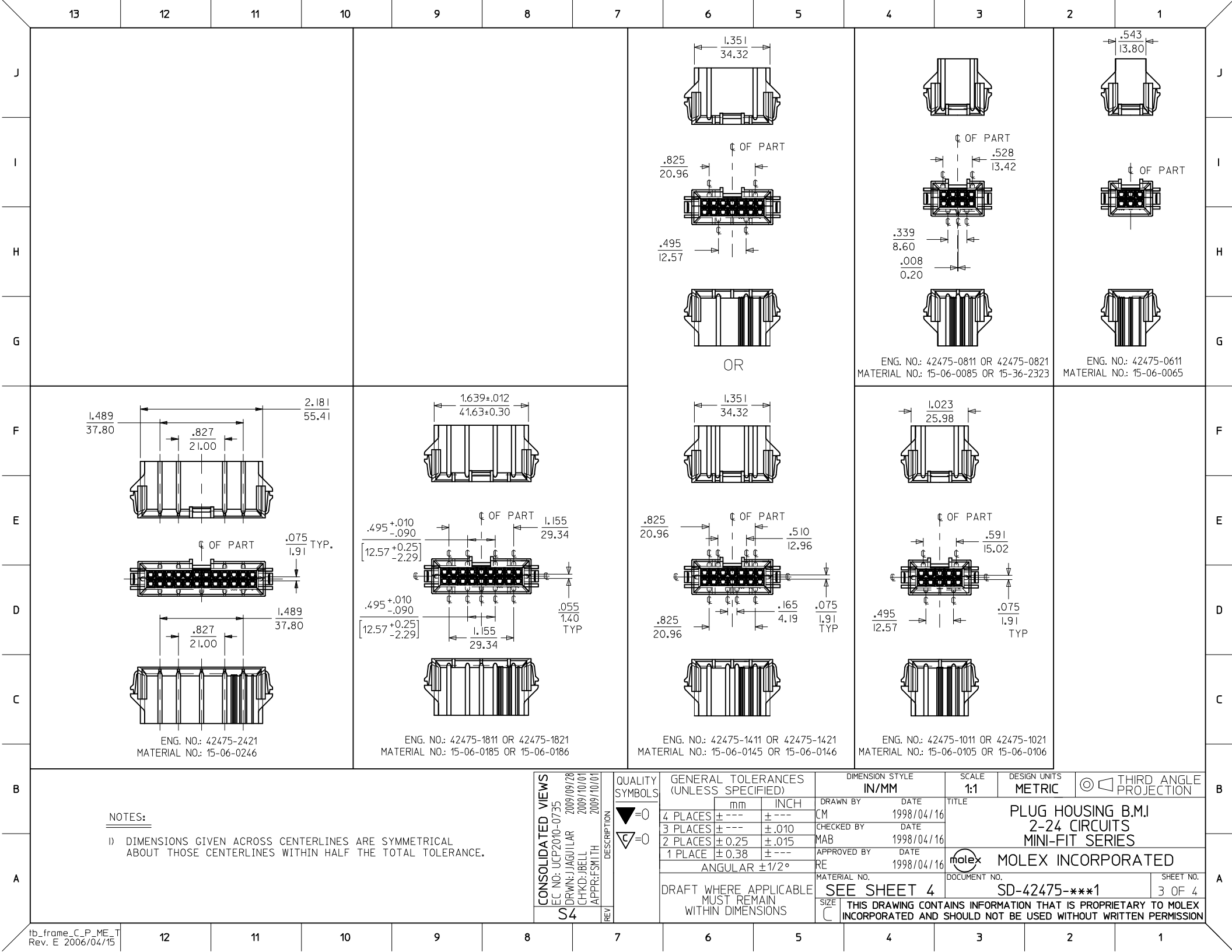
- 10) FOR MANUFACTURING EASE PARTS MAY HAVE OPTIONAL EJECTOR RIBS. SEE SHT.3 FOR LOCATION.
- 11) DIMENSION DOES NOT INCLUDE EJECTOR RIBS (SEE PAGE #3 FOR PARTS WITH RIBS, RIB DIMENSIONS AND LOCATION).
- 12) IF THIS PRODUCT IS STORED IN AN ENVIRONMENT WITH A RELATIVE HUMIDITY OF LESS THAN 50%, MOISTURE MUST BE ADDED. REFER TO TECHNICAL ADVISORY AS-45499-001 FOR INSTRUCTIONS.
- 13) INTERIOR RIB LOCATION MAY VARY.

- 14) CONNECTOR ASSEMBLIES ARE NOT TO BE MATED OR UNMATED WHILE CIRCUITS ARE LIVE.
- 15) WIRES ARE TO BE DRESSED IN SUCH A MANNER TO ALLOW THE TERMINALS TO FLOAT FREELY IN THE POCKET.
- 16) PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-022.

SEE SHEET 2 FOR 2 & 4 CKT. PARTS

CORRECT DIM. EC NO: UCP2010-2390 DRAWN: JAGUILAR CHKD: JEBEL APPR: FSMITH	REV S6	DESCRIPTION 2010/03/17 2010/03/17	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± .025 ± .015 1 PLACE ± .038 ± --- ANGULAR ± 1/2°	DIMENSION STYLE IN/MM DRAWN BY GEP DATE 1989/07/18 CHECKED BY RJF DATE 1989/07/18 APPROVED BY FSMITH DATE 2010/03/17	SCALE 4:1 DESIGN UNITS METRIC THIRD ANGLE PROJECTION	DOCUMENT NO. SD-42475-***1	SHEET NO. 1 OF 4

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION



13		12		11		10		9		8		7		6		5		4		3		2		1		
J	PART NUMBER	ENG. NUMBER	CKT. SIZE	MATERIAL (SEE NOTE 1.)	PART NUMBER	CKT. SIZE	MATERIAL (SEE NOTE 1.)	MOUNTING EAR TYPE		42475-**-21, 5558-GS*	42474-**-21, 5556-PBGS*P	94V-0	PHOS. BRZ.	GOLD												
								CKT. SIZE	DESIGN A, DESIGN B (SEE SHEET 1)	42475-**-11, 5558-GS*	42474-**-11, 5556-PBGS*P	94V-2														
	NOT TOOLED	42475-0211	2	I		2	3			42475-**-21, 5558-GS*	42474-**-21, 5556-GS*P	94V-0			BRASS	GOLD										
	I5-06-0045	42475-0411	4		42475-0431	4		2	N/A	42475-**-11, 5558-GS*	42474-**-11, 5556-GS*P	94V-2														
	I5-06-0065	42475-0611	6		42475-0631	6		4	B	42475-**-21, 5558-PBS*	42474-**-21, 5556-PBS*P	94V-0														
I	I5-06-0085	42475-0811	8		42475-0831	8		6	B	42475-**-11, 5558-PBS*	42474-**-11, 5556-PBS*P	94V-2	PHOS. BRZ.	TIN												
	I5-06-0105	42475-1011	10		42475-1031	10		8	A	42475-**-21, 5558-S*	42474-**-21, 5556-S*P	94V-0														
	NOT TOOLED	42475-1211	12			12		10	B	42475-**-11, 5558-S*	42474-**-11, 5556-S*P	94V-2			BRASS	TIN										
	I5-06-0145	42475-1411	14		42475-1431	14		12	N/A	42475-**-21, 5558-GS*	A-42385-**-D2	94V-0														
	NOT TOOLED	42475-1611	16			16		14	B	42475-**-11, 5558-GS*	A-42385-**-B2	94V-2														
H	I5-06-0185	42475-1811	18		42475-1831	18		16	N/A	42475-**-11, 5558-GS*	A-42385-**-A2	94V-2	PHOS. BRZ.	TIN												
	I5-06-0205	42475-2011	20		42475-2031	20		18	A & B	42475-**-21, 5558-PBS*	A-42385-**-D1	94V-0														
	NOT TOOLED	42475-2211	22			22		20	A	42475-**-11, 5558-PBS*	A-42385-**-C1	94V-2			BRASS	TIN										
	I5-06-0245	42475-2411	24	I	42475-2431	24	3	22	N/A	42475-**-21, 5558-S*	A-42385-**-B1	94V-0														
								24	B	42475-**-11, 5558-S*	A-42385-**-A1	94V-2														
										PLUG HOUSING/ MALE TERMINAL		MATING CONNECTOR		HSG. MAT'L. TERM. MAT'L. PLATING		MATING CONNECTOR FEATURES										
G	NOT TOOLED	42475-0221	2	2		2	4																			
	I5-06-0046	42475-0421	4		42475-0441	4																				
	I5-06-0066	42475-0621	6			6																				
	50-36-2323	42475-0821	8			8																				
	I5-06-0106	42475-1021	10		42475-1041	10																				
F	NOT TOOLED	42475-1221	12			12																				
	I5-06-0146	42475-1421	14		42475-1441	14																				
	NOT TOOLED	42475-1621	16			16																				
	I5-06-0186	42475-1821	18		42475-1841	18																				
	I5-06-0206	42475-2021	20		42475-2041	20																				
E	NOT TOOLED	42475-2221	22			22																				
	I5-06-0246	42475-2421	24	2	42475-2441	24	4																			
D																										
C																										
B																										
A																										

LEGEND:

42475 - ** * I

BASE NUMBER

CIRCUIT SIZE

MATERIAL (SEE NOTE 1.)

ADDED 50362323

EC NO: UCP2009-0892

DRWN:KLOSTENE1ER 2008/10/09

CHKD:JBELL 2008/10/14

APPR:FSM1TH 2008/10/15

REV

S1

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 ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE IN/MM

DRAWN BY DATE

GEP 1989/07/18

CHECKED BY DATE

RJF 1989/07/18

APPROVED BY DATE

RAS 1989/07/18

MATERIAL NO.

SEE CHART

SIZE

C

SCALE 4:1

DESIGN UNITS METRIC

THIRD ANGLE PROJECTION

PLUG HOUSING B.M.I. 2-24 CIRCUITS. MINI-FIT SERIES

MOLEX

MOLEX INCORPORATED

DOCUMENT NO.

SD-42475-***1

SHEET NO.

4 OF 4

12		11		10		9		8		7		6		5		4		3		2		1	
tb_frame_C_P_ME_T																							
Rev. E 2006/04/15																							