

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0015060106](#)
Status: **Active**
Overview: [minifit_bmi](#)
Description: 4.20mm (.165") Pitch Mini-Fit BMI™ Plug Housing, Dual Row with Panel Mount Ears, PA Polyamide Nylon 6/6, UL 94V-0, 10 Circuits

Documents:

3D Model	Product Specification PS-5556-002 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Crimp Housings
Series	42475
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 de-rating information.
Overview	minifit_bmi
Product Name	Mini-Fit BMI™

Physical

Circuits (maximum)	10
Color - Resin	Natural
Flammability	94V-0
Gender	Male
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Resin	Nylon
Number of Rows	2
Packaging Type	Bag
Panel Mount	Yes
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm
Polarized to Mating Part	Yes
Stackable	No
Temperature Range - Operating	-40°C to +105°C

Electrical

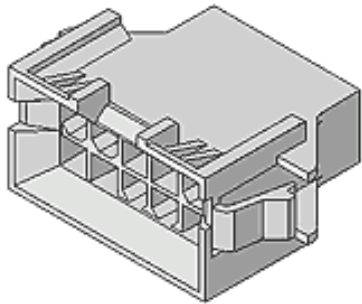
Current - Maximum per Contact	13A
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Material Info

Old Part Number	42475-1021
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Reference - Drawing Numbers

Packaging Specification	PK-42474-001
Product Specification	PS-5556-002
Sales Drawing	SD-42475-***1
Test Summary	TS-5556-002



Series

image - Reference only

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

[42475Series](#)

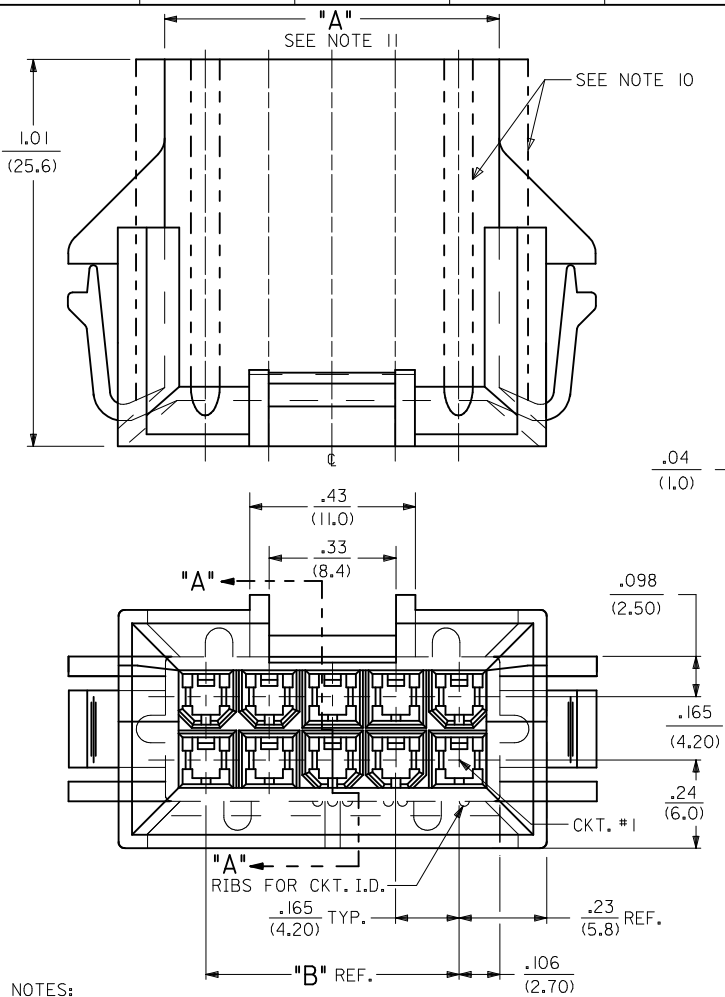
Mates With

[15-06-0101](#) Mini-Fit BMI Panel Mount Receptacle, [42385](#) Mini-Fit BMI 10 Circuit, UL 94V-0 Vertical Receptacle Headers, [44475-1021](#) Mini-Fit BMI HCS Vertical Receptacle Header, [39-01-2105](#) Mini-Fit Jr. Receptacle

Use With

[46012](#) Mini-Fit Plus HCS™ Crimp Terminal, [5558](#) Mini-Fit™ Crimp Terminal

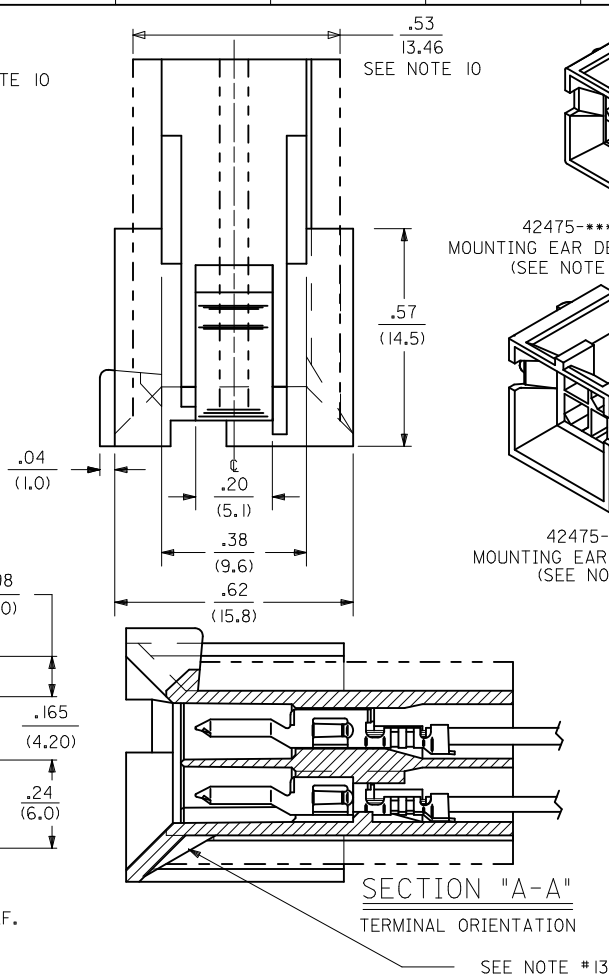
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NOTES:

- 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.

SEE SHEET 2 FOR 2 & 4 CKT. PARTS

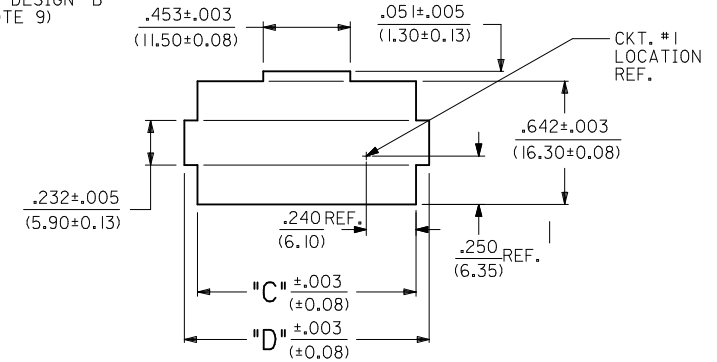
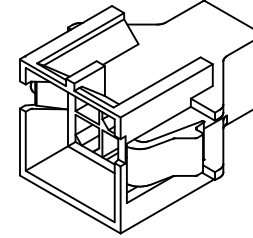
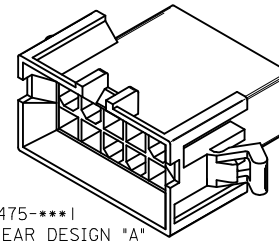


42475-***I
MOUNTING EAR DESIGN "A"
(SEE NOTE 9)

42475-***I
MOUNTING EAR DESIGN "B"
(SEE NOTE 9)

SECTION "A-A"
TERMINAL ORIENTATION

SEE NOTE #13



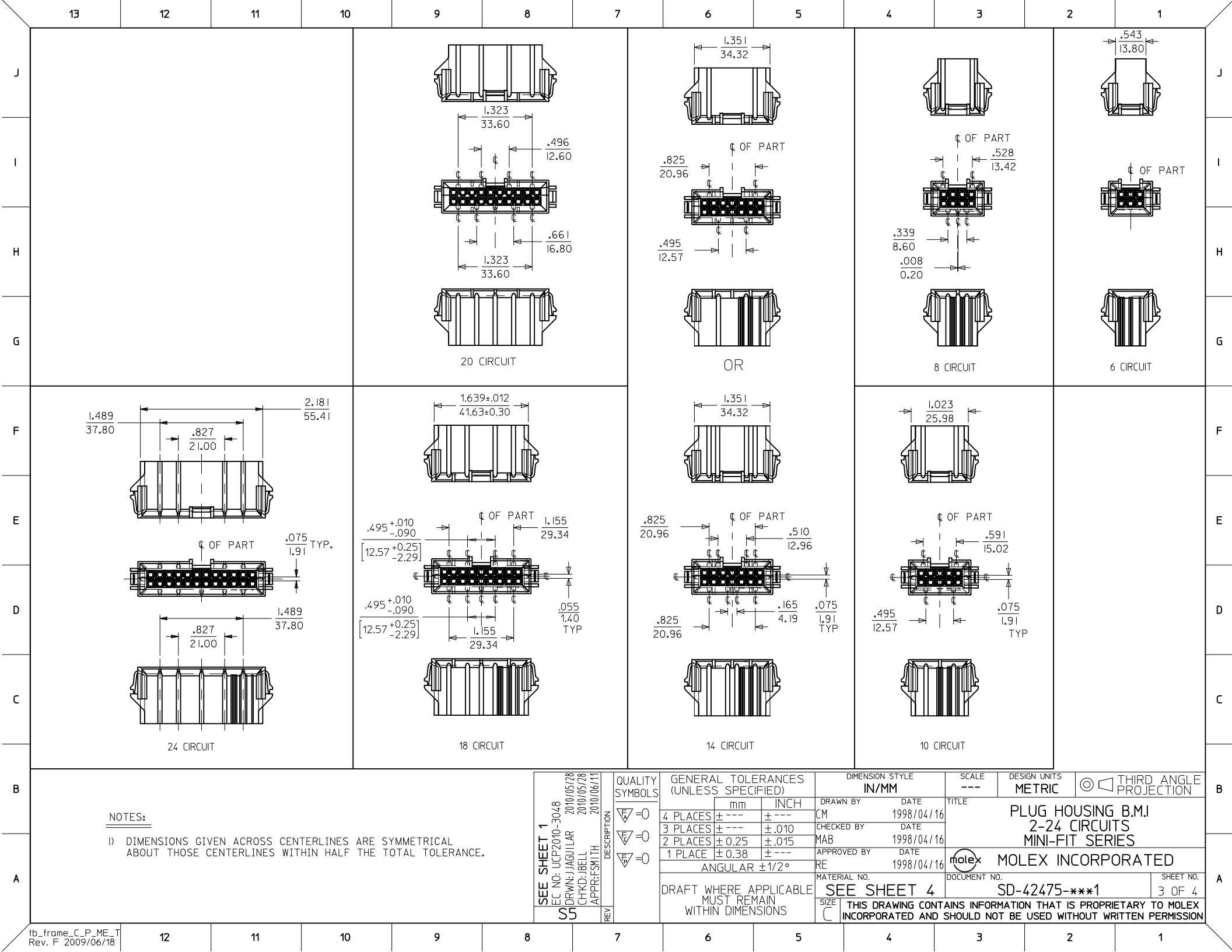
RECOMMENDED CUT-OUT FOR .063/(1.60)
MAX. THICK P.C. BOARD. (6-24 CKT'S.)

SCALE: 2X

- 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.

ADD -0641 EC NO: UCP2010-3048 DRWN: JAGUILAR CHKD: JEBEL APPR: FSMITH S7	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	SHEET NO. 1 OF 4
				mm	INCH	DRAWN BY GEP	DATE 1989/07/18	TITLE PLUG HOUSING B.M.I. 2-24 CIRCUITS MINI-FIT SERIES MOLEX INCORPORATED			
			4 PLACES	± ---	± ---	CHECKED BY RJF	DATE 1989/07/18				
			3 PLACES	± ---	± .010	APPROVED BY FSMITH	DATE 2010/03/17				
			2 PLACES	± .025	± .015	MATERIAL NO. SEE SHEET 4	DOCUMENT NO. SD-42475-***1				
			1 PLACE	± 0.38	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
REV		 = 0  = 0  = 0	ANGULAR ±1/2°								



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-**-2I, 5558-GS*	42474-**-2I, 5556-PBGS*P	94V-0	PHOS. BRZ.	GOLD																																																													
	NOT TOOLED	42475-02II	2	I	NOT TOOLED	2	3	CKT. SIZE	DESIGN A, DESIGN B (SEE SHEET I)	42475-**-II, 5558-GS*	42474-**-II, 5556-PBGS*P	94V-2																																																															
	I5-06-0045	42475-04II	4		42475-043I	4		2	N/A	42475-**-2I, 5558-GS*	42474-**-2I, 5556-GS*P	94V-0			BRASS	GOLD																																																											
	I5-06-0065	42475-06II	6		42475-063I	6		4	B	42475-**-II, 5558-GS*	42474-**-II, 5556-GS*P	94V-2																																																															
	I5-06-0085	42475-08II	8		42475-083I	8		6	B	42475-**-2I, 5558-PBS*	42474-**-2I, 5556-PBS*P	94V-0					PHOS. BRZ.	TIN																																																									
I	I5-06-0105	42475-10II	10		42475-103I	10		8	A	42475-**-2I, 5558-S*	42474-**-2I, 5556-S*P	94V-0	BRASS	TIN																																																													
	NOT TOOLED	42475-12II	12		NOT TOOLED	12		10	B	42475-**-II, 5558-S*	42474-**-II, 5556-S*P	94V-2																																																															
	I5-06-0145	42475-14II	14		42475-143I	14		12	N/A	42475-**-2I, 5558-GS*	A-42385-**-D2	94V-0			PHOS. BRZ.	GOLD																																																											
	H	NOT TOOLED	42475-16II	16		NOT TOOLED	16		14	B	42475-**-II, 5558-GS*	A-42385-**-B2	94V-0	BRASS			GOLD																																																										
		I5-06-0185	42475-18II	18		42475-183I	18		16	N/A	42475-**-2I, 5558-GS*	A-42385-**-A2	94V-2																																																														
I5-06-0205		42475-20II	20		42475-203I	20		18	A & B	42475-**-2I, 5558-PBS*	A-42385-**-D1	94V-0	PHOS. BRZ.		TIN																																																												
NOT TOOLED		42475-22II	22		NOT TOOLED	22		20	A	42475-**-II, 5558-PBS*	A-42385-**-C1	94V-2																																																															
G		I5-06-0245	42475-24II	24	I	42475-243I	24	3	22	N/A	42475-**-2I, 5558-S*	A-42385-**-B1		94V-0		BRASS	TIN																																																										
								24	B	42475-**-II, 5558-S*	A-42385-**-A1	94V-2																																																															
	NOT TOOLED	42475-022I	2	2	NOT TOOLED	2	4																																																																				
	F	I5-06-0046	42475-042I	4		42475-044I	4																																																																				
		I5-06-0066	42475-062I	6		42475-064I	6																																																																				
50-36-2323		42475-082I	8		42475-084I	8																																																																					
I5-06-0106		42475-102I	10		42475-104I	10																																																																					
NOT TOOLED		42475-122I	12		NOT TOOLED	12																																																																					
E	I5-06-0146	42475-142I	14		42475-144I	14																																																																					
	NOT TOOLED	42475-162I	16		NOT TOOLED	16																																																																					
	I5-06-0186	42475-182I	18		42475-184I	18																																																																					
	I5-06-0206	42475-202I	20		42475-204I	20																																																																					
	NOT TOOLED	42475-222I	22		NOT TOOLED	22																																																																					
D	I5-06-0246	42475-242I	24	2	42475-244I	24	4																																																																				
LEGEND: 42475 - ** * I BASE NUMBER CIRCUIT SIZE MATERIAL (SEE NOTE 1.)														<table><tr><td rowspan="4">ADD -0641 EC NO: UCP2010-3048 DRWN: JAGUILAR CHKD: JELL APPR: FSMITH</td><td rowspan="4">REV S2</td><td rowspan="4">DESCRIPTION REV</td><td rowspan="4">QUALITY SYMBOLS ▽=0 ▽=0 ▽=0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE IN/MM</td><td>SCALE ---</td><td>DESIGN UNITS METRIC</td><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td>mm</td><td>INCH</td><td>DRAWN BY GEP</td><td>DATE 1989/07/18</td><td colspan="4" rowspan="2">TITLE PLUG HOUSING B.M.I. 2-24 CIRCUITS, MINI-FIT SERIES</td></tr><tr><td>4 PLACES ± ---</td><td>± ---</td><td>CHECKED BY RJF</td><td>DATE 1989/07/18</td></tr><tr><td>3 PLACES ± ---</td><td>± .010</td><td>APPROVED BY RAS</td><td>DATE 1989/07/18</td><td colspan="4" rowspan="2">MOLEX INCORPORATED</td></tr><tr><td>2 PLACES ± 0.25</td><td>± .015</td><td colspan="2">MATERIAL NO. SEE CHART</td><td colspan="2">DOCUMENT NO. SD-42475-***1</td><td colspan="2">SHEET NO. 4 OF 4</td></tr><tr><td>1 PLACE ± 0.38</td><td>± ---</td><td colspan="2">SIZE C</td><td colspan="8">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>										ADD -0641 EC NO: UCP2010-3048 DRWN: JAGUILAR CHKD: JELL APPR: FSMITH	REV S2	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		mm	INCH	DRAWN BY GEP	DATE 1989/07/18	TITLE PLUG HOUSING B.M.I. 2-24 CIRCUITS, MINI-FIT SERIES				4 PLACES ± ---	± ---	CHECKED BY RJF	DATE 1989/07/18	3 PLACES ± ---	± .010	APPROVED BY RAS	DATE 1989/07/18	MOLEX INCORPORATED				2 PLACES ± 0.25	± .015	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-42475-***1		SHEET NO. 4 OF 4		1 PLACE ± 0.38	± ---	SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
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