

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0015246041](#)
Status: **Active**
Description: 4.20mm (.165") Pitch Mini-Fit BMI™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 4 Circuits, PA Polyamide Nylon 6/6, UL 94V-2, Tin (Sn) Plating, without Drain Holes

Documents:
[3D Model](#)
[Drawing \(PDF\)](#)
[Product Specification PS-5556-002 \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

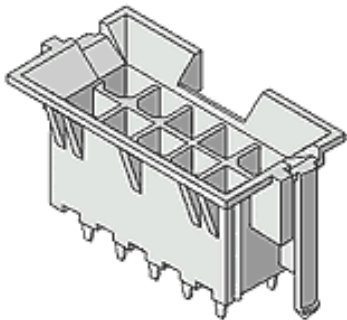
CSA	LR19980
TUV	R72082037
UL	E29179

General

Product Family	PCB Headers
Series	42440
Application	Board-to-Board, Wire-to-Board
Comments	Current = 13A max. per circuit when header is mated to a receptacle loaded with 45750 Mini-Fit Plus HCS™ Crimp Terminal Crimped to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. High Temperature, Square Pin, Solder Type
Product Name	Mini-Fit BMI™

Physical

Breakaway	No
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Natural
Durability (mating cycles max)	30
Flammability	94V-2
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.140 In
PC Tail Length (mm)	3.56 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.070 In
PCB Thickness Recommended (mm)	1.80 mm
Packaging Type	Tray
Pitch - Mating Interface (in)	0.165 In
Pitch - Mating Interface (mm)	4.20 mm
Plating min: Mating (µin)	100
Plating min: Mating (µm)	2.50
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.50



Series

image - Reference only

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
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
[42440Series](#)

Mates With
[15-06-0040](#) Mini-Fit BMI™ Panel Mount Receptacle, [15-24-7040](#) Mini-Fit BMI™ Vertical Receptacle Header, [39-01-3042](#) Mini-Fit Jr.™ Receptacle

Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Partial
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

Current - Maximum per Contact	13A
Voltage - Maximum	600V

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	240

Material Info

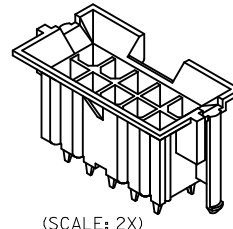
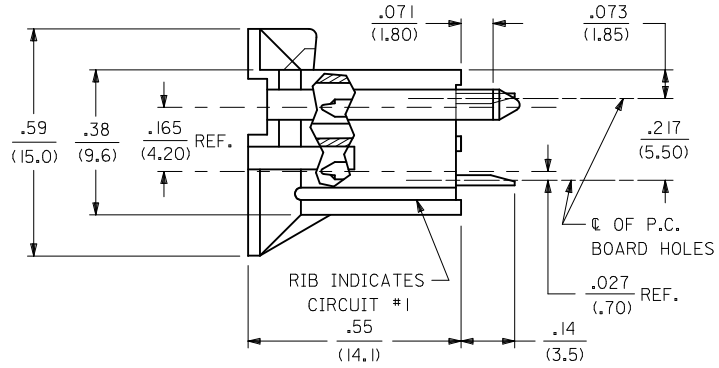
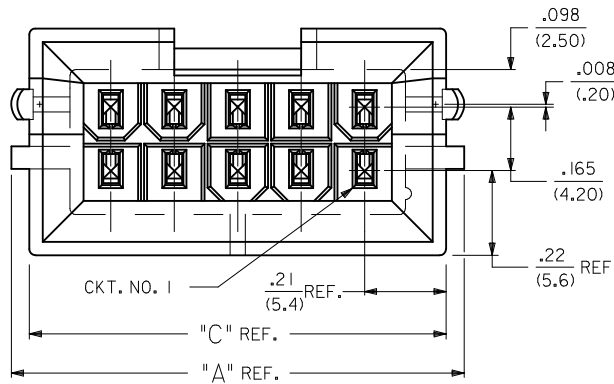
Old Part Number	A-42440-0411
-----------------	--------------

Reference - Drawing Numbers

Packaging Specification	PK-42440-001
Product Specification	PS-5556-002
Sales Drawing	SDA-42440-****
Test Summary	TS-5556-002

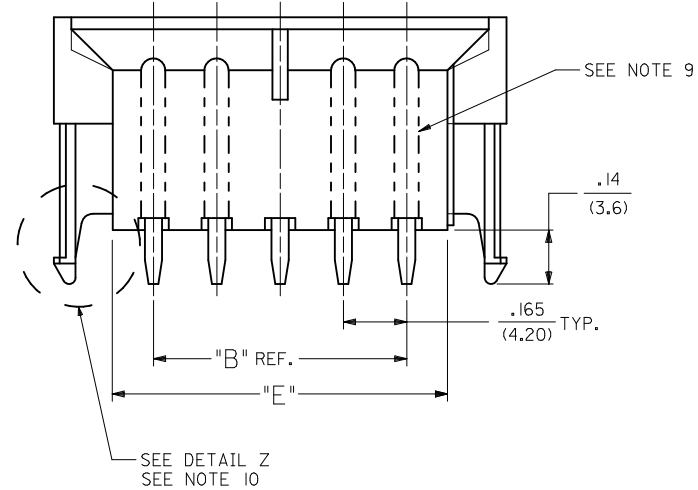
This document was generated on 05/11/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

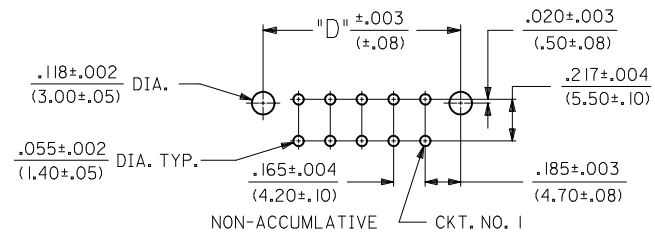


(SCALE: 2X)

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

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

ADDED PART #S
EC NO: UCP2010-0472
DRWN: JAGUILAR 2009/11/11
CHKD: JELL 2009/12/01
APPR: FSMITH 2009/12/01
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
DRAWN BY
GEP
DATE
1989/04/06
CHECKED BY
RJF
DATE
1989/04/06
APPROVED BY
RAS
DATE
1989/04/06
MATERIAL NO.
SEE CHART
SIZE
C

SCALE
1:1
DESIGN UNITS
METRIC
THIRD ANGLE PROJECTION
MINI-FIT B.M.I.
VERTICAL HEADER ASSY
WITH DRAIN HOLE OPTION
MOLEX INCORPORATED
DOCUMENT NO.
SDA-42440-****
SHEET NO.
1 OF 6
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		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												
I	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS										
	NO EDP	A-42440-021I	-	2	NO EDP	A-42440-022I	-	2	NO EDP	A-42440-0212	-	2	NO EDP	A-42440-0222	-	2										
	I5-24-604I	A-42440-041I	-	4	I5-24-6042	A-42440-042I	-	4	I5-28-604I	A-42440-0412	-	4	I5-28-6042	A-42440-0422	-	4										
	I5-24-606I	A-42440-061I	-	6	NO EDP	A-42440-062I	-	6	I5-28-606I	A-42440-0612	-	6	NO EDP	A-42440-0622	-	6										
	NO EDP	A-42440-081I	-	8	NO EDP	A-42440-082I	-	8	NO EDP	A-42440-0812	-	8	NO EDP	A-42440-0822	-	8										
H	I5-24-610I	A-42440-101I	-	10	I5-24-6102	A-42440-102I	-	10	I5-28-610I	A-42440-1012	-	10	I5-28-6102	A-42440-1022	-	10										
	I5-24-612I	A-42440-121I	NOT TOOLED	12	I5-24-6122	A-42440-122I	NOT TOOLED	12	I5-28-612I	A-42440-1212	NOT TOOLED	12	I5-28-6122	A-42440-1222	NOT TOOLED	12										
	I5-24-614I	A-42440-141I	-	14	I5-24-6142	A-42440-142I	-	14	I5-28-614I	A-42440-1412	-	14	I5-28-6142	A-42440-1422	-	14										
	I5-24-616I	A-42440-161I	-	16	I5-24-6162	A-42440-162I	-	16	I5-28-616I	A-42440-1612	-	16	NO EDP	A-42440-1622	-	16										
	I5-24-618I	A-42440-181I	-	18	I5-24-6182	A-42440-182I	-	18	I5-28-618I	A-42440-1812	-	18	I5-28-6182	A-42440-1822	-	18										
G	NO EDP	A-42440-201I	-	20	NO EDP	A-42440-202I	-	20	NO EDP	A-42440-2012	-	20	NO EDP	A-42440-2022	-	20										
	NO EDP	A-42440-221I	-	22	NO EDP	A-42440-222I	-	22	NO EDP	A-42440-2212	-	22	NO EDP	A-42440-2222	-	22										
	I5-24-624I	A-42440-241I	-	24	I5-24-6242	A-42440-242I	-	24	I5-28-624I	A-42440-2412	-	24	I5-28-6242	A-42440-2422	-	24										
		-	-			-	-			-	-			-	-											
		-	-			-	-			-	-			-	-											
F		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												
E	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS	PART NO.	ENG NO.		CKTS										
	NO EDP	A-42440-023I	-	2	NO EDP	A-42440-024I	-	2	NO EDP	A-42440-0232	-	2	NO EDP	A-42440-0242	-	2										
	I5-24-6046	A-42440-043I	-	4	I5-24-6047	A-42440-044I	-	4	I5-28-6046	A-42440-0432	-	4	I5-28-6047	A-42440-0442	-	4										
	NO EDP	A-42440-063I	-	6	NO EDP	A-42440-064I	-	6	NO EDP	A-42440-0632	-	6	NO EDP	A-42440-0642	-	6										
	NO EDP	A-42440-083I	-	8	NO EDP	A-42440-084I	-	8	NO EDP	A-42440-0832	-	8	NO EDP	A-42440-0842	-	8										
D	I5-24-6106	A-42440-103I	-	10	I5-24-6107	A-42440-104I	-	10	I5-28-6106	A-42440-1032	-	10	I5-28-6107	A-42440-1042	-	10										
	NO EDP	A-42440-123I	-	12	NO EDP	A-42440-124I	-	12	NO EDP	A-42440-1232	-	12	NO EDP	A-42440-1242	-	12										
	I5-24-6146	A-42440-143I	-	14	I5-24-6147	A-42440-144I	-	14	I5-28-6146	A-42440-1432	-	14	I5-28-6147	A-42440-1442	-	14										
	NO EDP	A-42440-163I	-	16	NO EDP	A-42440-164I	-	16	NO EDP	A-42440-1632	-	16	NO EDP	A-42440-1642	-	16										
	I5-24-6186	A-42440-183I	-	18	I5-24-6187	A-42440-184I	-	18	I5-28-6186	A-42440-1832	-	18	I5-28-6187	A-42440-1842	-	18										
C	NO EDP	A-42440-203I	-	20	NO EDP	A-42440-204I	-	20	NO EDP	A-42440-2032	-	20	NO EDP	A-42440-2042	-	20										
	NO EDP	A-42440-223I	-	22	NO EDP	A-42440-224I	-	22	NO EDP	A-42440-2232	-	22	NO EDP	A-42440-2242	-	22										
	I5-24-6246	A-42440-243I	-	24	I5-24-6247	A-42440-244I	-	24	I5-28-6246	A-42440-2432	-	24	I5-28-6247	A-42440-2442	-	24										
		-	-			-	-			-	-			-	-											
		-	-			-	-			-	-			-	-											
B																										
A																										