molex
one company > a world of innovation

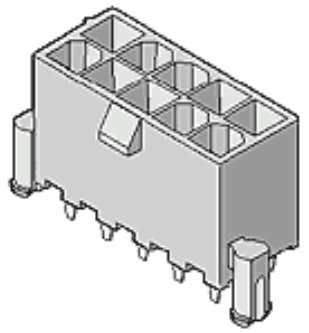
This document was generated on 04/09/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0444721251

Status: Active

Description: 4.20mm (.165") Pitch Mini-Fit HCS™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 12 Circuits, PA Polyamide Nylon 6/6 94V-0, without Drain Holes



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Packaging Specification (PDF)
Product Specification PS-44476-001 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	44472
Application	Wire-to-Board
Comments	Square Pin|Solder Type
Product Name	Mini-Fit HCS™

Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
Color - Resin	Natural (White)
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	No
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	2
Orientation	Vertical
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
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	11A
Voltage - Maximum	600V

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free Status
Not Reviewed

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
44472Series

Mates With
5557d

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

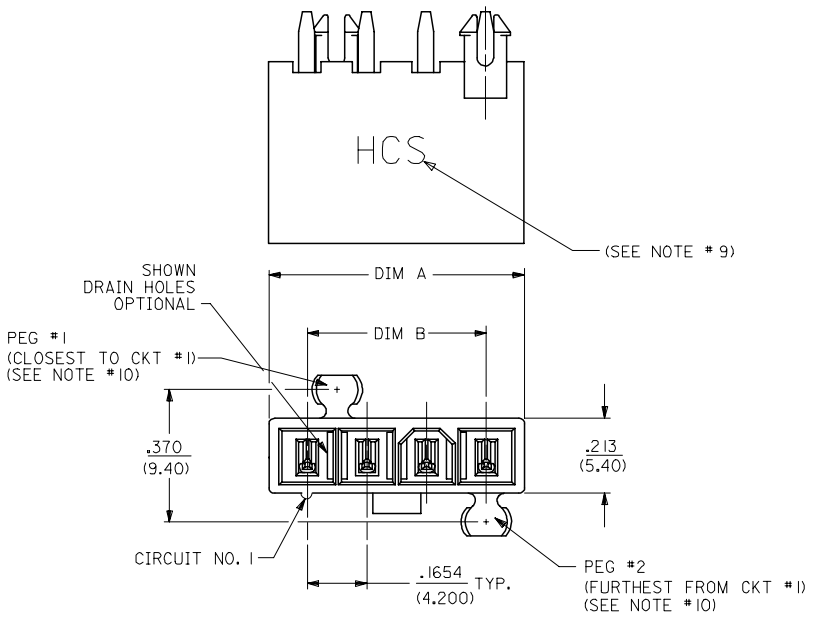
Material Info

Reference - Drawing Numbers

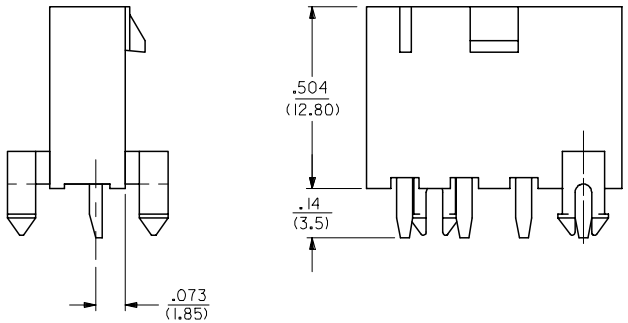
Product Specification	PS-44476-001, RPS-44476-001
Sales Drawing	SDA-44472-****

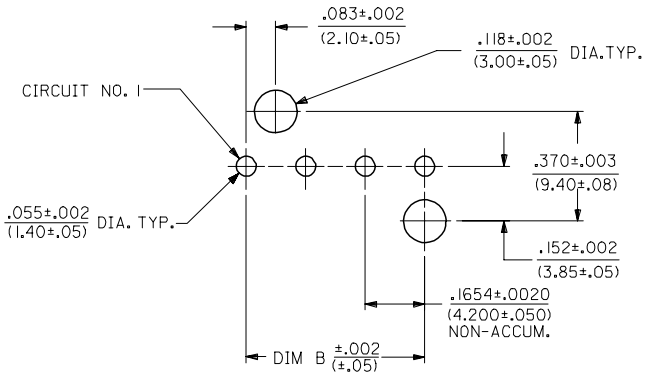
This document was generated on 04/09/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

CKT SIZE	DIM A	DIM B
4	.709 (18.00)	.496 (12.60)
5	.874 (22.20)	.661 (16.80)
6	1.039 (26.40)	.827 (21.00)
7	1.205 (30.60)	.992 (25.20)
8	1.370 (34.80)	1.157 (29.40)
9	1.535 (39.00)	1.323 (33.60)
10	1.701 (43.20)	1.488 (37.80)
11	1.866 (47.40)	1.654 (42.00)
12	2.031 (51.60)	1.819 (46.20)



NOTES:
1. MATERIALS:
   HOUSING:
   "1"=NYLON 6/6, UL94 V-2, COLOR: NATURAL
   "2"=NYLON 6/6, UL94 V-0, COLOR: NATURAL
   "3"=NYLON 6/6, UL94 V-2, COLOR: BLACK
   TERMINALS:
   COPPER ALLOY
2. TERMINAL PLATING:
   "x1"=.000100/(0.00254) MIN. BRIGHT TIN OVER .000050/(0.00127) MIN. NICKEL
   "x2"=.000030/(0.00076) MIN. SELECT GOLD AND .000100/(0.00254) MIN. SELECT MATTE TIN OVER .000050/(0.00127) MIN. NICKEL OVERALL
   "3"=.000100/(0.00254) MIN. MATTE TIN OVER .000050/(0.00127) MIN. NICKEL
   *THE PRIMARY SHIPPING CARTON WILL BE LABELED "ELV AND RoHS COMPLIANT"; CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.
3. PRODUCT SPECIFICATION: PS-44476-001
4. PACKAGING: SEE CHARTS
5. PART MATES WITH MINI-FIT JR. RECEPTACLE NO. 5557.
6. PART IS NOT DESIGNED FOR CURRENT SHARING.
7. PARTS ARE NOT TO BE MATED OR UN-MATED WHILE CIRCUITS ARE LIVE.
8. 44472-2470 ONLY FOR WIDER LOCKING RAMP.
9. PARTS PRODUCED AFTER JULY 1, 2004 WILL HAVE "HCS" MARKING INSTEAD OF BLACK STRIPE.
10. SEE CHART FOR PARTS WITH PEGS REMOVED.
11. PART CONFORMS TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.





RECOMMENDED HOLE LAYOUT FOR
.070/(1.78) MAX. THICK P. C. BOARD
VIEWED FROM COMPONENT SIDE

10	L
9	L
8	L
7	L
6	L
5	L
4	L
3	L
2	L
1	L
SHT	REV

LEGEND:
44472 - ** **
CIRCUIT SIZE
(04-12 FOR SINGLE ROW)
(02-24 FOR DUAL ROW)
ASSEMBLY VERSION
(01 THRU 49 FOR SINGLE ROW)
(50 THRU 99 FOR DUAL ROW)

SEE SHT. 2 FOR DUAL ROW
* THE CHART FOR SINGLE ROW PRODUCT IS ON PAGE 7

STANDARDIZE NOTES
EC NO: UCP2008-0153 2007/09/26
DRWN:LSCHMIDT 2007/09/26
CHKD:ADERR 2007/09/26
APPR:FSMITH 2007/09/26
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .015
2 PLACES	± 0.38	± .020
1 PLACE	± 0.50	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

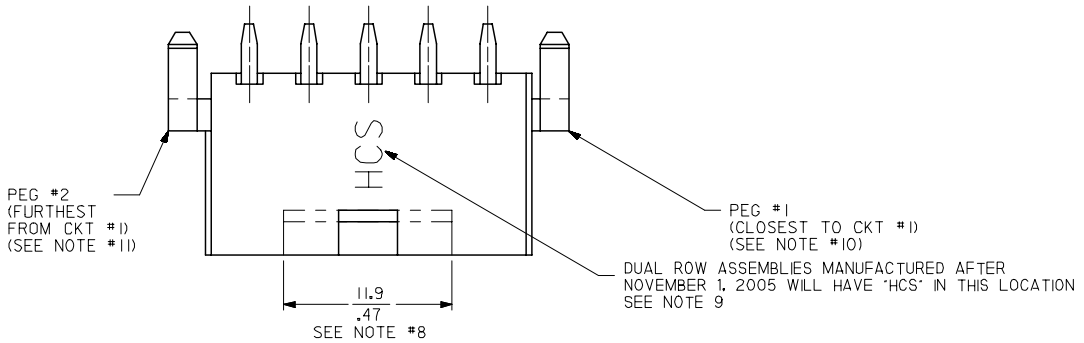
		DATE
DRAWN BY	GEP	1994/07/25
CHECKED BY	RJF	1994/07/25
APPROVED BY	RJF	1994/07/25

TITLE: MINI-FIT VERT HDR ASSY W & W/O PEGS/DRAIN HOLES SINGLE AND DUAL ROW

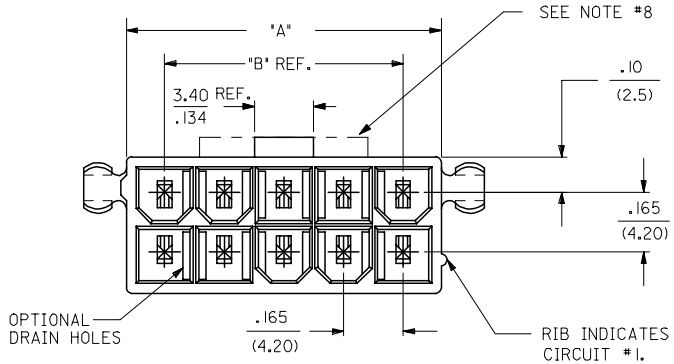
MOLEX INCORPORATED

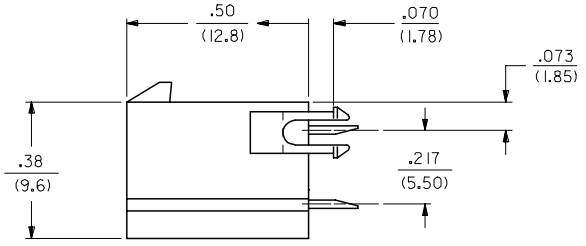
MATERIAL NO.: SEE CHARTS
DOCUMENT NO.: SDA-44472-****
SHEET NO.: 1 OF 10
SIZE: C

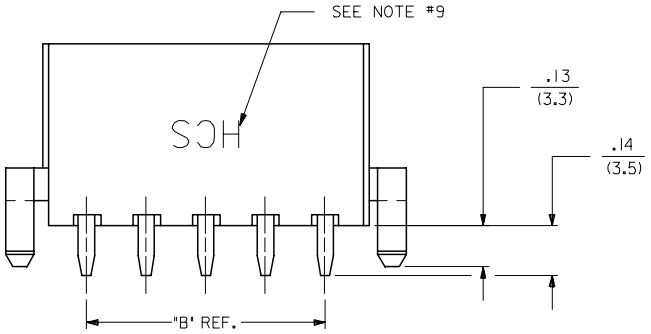
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

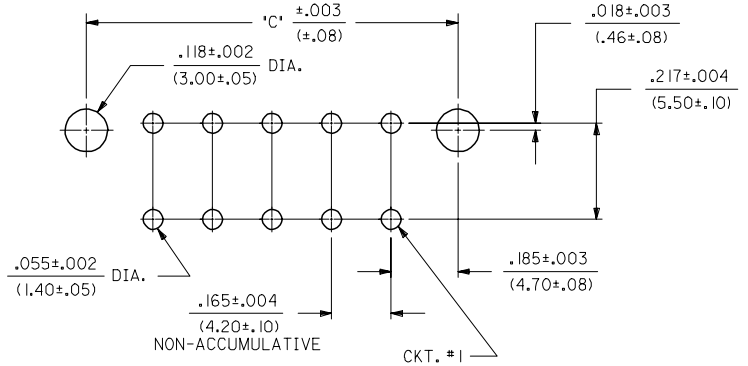


CIRCUIT SIZE	DIM. "A"	DIM. "B"	DIM. "C"
2	.21 (5.4)	—	.370 (9.40)
4	.38 (9.6)	.17 (4.2)	.535 (13.60)
6	.54 (13.8)	.33 (8.4)	.701 (17.80)
8	.71 (18.0)	.50 (12.6)	.866 (22.00)
10	.87 (22.2)	.66 (16.8)	1.031 (26.20)
12	1.04 (26.4)	.83 (21.0)	1.197 (30.40)
14	1.20 (30.6)	.99 (25.2)	1.362 (34.60)
16	1.37 (34.8)	1.16 (29.4)	1.528 (38.80)
18	1.54 (39.0)	1.32 (33.6)	1.693 (43.00)
20	1.70 (43.2)	1.49 (37.8)	1.858 (47.20)
22	1.87 (47.4)	1.65 (42.0)	2.024 (51.40)
24	2.03 (51.6)	1.82 (46.2)	2.189 (55.60)









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

VIEWED FROM COMPONENT SIDE

SEE SHT. 1 FOR SINGLE ROW

STANDARDIZE NOTES
EC NO: UCP2008-0153 2007/09/26
DRWN:LSCHMIDT 2007/09/26
CHKD:ADERR 2007/09/26
APPR:FSMITH 2007/09/26
DESCRIPTION
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .015
2 PLACES	± 0.38	± .020
1 PLACE	± 0.50	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

		DATE
DRAWN BY	GEP	1994/07/26
CHECKED BY	RJF	1994/07/26
APPROVED BY	RJF	1994/07/26

TITLE: MINI-FIT VERT HDR ASSY W & W/O PEGS/DRAIN HOLES SINGLE AND DUAL ROW

MOLEX INCORPORATED

MATERIAL NO.: SEE CHARTS
DOCUMENT NO.: SDA-44472-****
SHEET NO.: 2 OF 10
SIZE: C

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

PLATING:	1 (SEE NOTE 2)
DRAINS:	WITHOUT DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-2 [NATURAL]
PACKAGING:	PK-44472-001

ITEM NO.		CKTS
44472-0250		2
44472-0450		4
44472-0650		6
44472-0850		8
44472-1050		10
44472-1250		12
44472-1450		14
44472-1650		16
44472-1850		18
44472-2050		20
44472-2250		22
44472-2450		24

PLATING:	1 (SEE NOTE 2)
DRAINS:	WITHOUT DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-0 [NATURAL]
PACKAGING:	PK-44472-001

ITEM NO.		CKTS
44472-0251		2
44472-0451		4
44472-0651		6
44472-0851		8
44472-1051		10
44472-1251		12
44472-1451		14
44472-1651		16
44472-1851		18
44472-2051		20
44472-2251		22
44472-2451		24

PLATING:	1 (SEE NOTE 2)
DRAINS:	WITH DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-2 [NATURAL]
PACKAGING:	PK-44472-001

ITEM NO.		CKTS
44472-0252		2
44472-0452		4
44472-0652		6
44472-0852		8
44472-1052		10
44472-1252		12
44472-1452		14
44472-1652		16
44472-1852		18
44472-2052		20
44472-2252		22
44472-2452		24

PLATING:	1 (SEE NOTE 2)
DRAINS:	WITH DRAIN HOLES
PEGS:	WITH PEGS
MAT'L:	94V-0 [NATURAL]
PACKAGING:	PK-44472-001

ITEM NO.		CKTS
44472-0253		2
44472-0453		4
44472-0653		6
44472-0853		8
44472-1053		10
44472-1253		12
44472-1453		14
44472-1653		16
44472-1853		18
44472-2053		20
44472-2253		22
44472-2453		24

PLATING:	1 (SEE NOTE 2)
DRAINS:	WITHOUT DRAIN HOLES
PEGS:	WITHOUT PEGS
MAT'L:	94V-2 [NATURAL]
PACKAGING:	PK-44472-001

ITEM NO.	HOUSING NO.	CKTS
44472-0254		2
44472-0454		4
44472-0654		6
44472-0854		8
44472-1054		10
44472-1254		12
44472-1454		14
44472-1654		16
44472-1854		18
44472-2054		20
44472-2254		22
44472-2454		24

PLATING:	1 (SEE NOTE 2)
DRAINS:	WITHOUT DRAIN HOLES
PEGS:	WITHOUT PEGS
MAT'L:	94V-0 [NATURAL]
PACKAGING:	PK-44472-001

ITEM NO.		CKTS
44472-0255		2
44472-0455		4
44472-0655		6
44472-0855		8
44472-1055		10
44472-1255		12
44472-1455		14
44472-1655		16
44472-1855		18
44472-2055		20
44472-2255		22
44472-2455		24

* ITEMS PRECEDED BY AN "X" ARE NOT AVAILABLE.

PLATING NOTE
EC NO: UCP2008-0153 2007/09/26
DRWN:LSCHMIDT 2007/09/26
CH'KD:ADERR 2007/09/26
APPR:FSMITH 2007/09/26
DESCRIPTION
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	LEM	DATE 1999/02/22
CHECKED BY	MAB	DATE 1999/02/22
APPROVED BY	RRE	DATE 1999/02/22

TITLE: MINI-FIT VERT HDR ASSY W & W/O PEGS/DRAIN HOLES SINGLE AND DUAL ROW

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-44472-****
SHEET NO.: 3 OF 10
SIZE: C

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