

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0015977123](#)
Status: **Active**
Overview: [minifit_tpa](#)
Description: 4.20mm (.165") Pitch Mini-Fit TPA™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 12 Circuits, Tin (Sn) Plating, without Drain Holes

Documents:

[3D Model](#) [Product Specification PS-5556-003 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

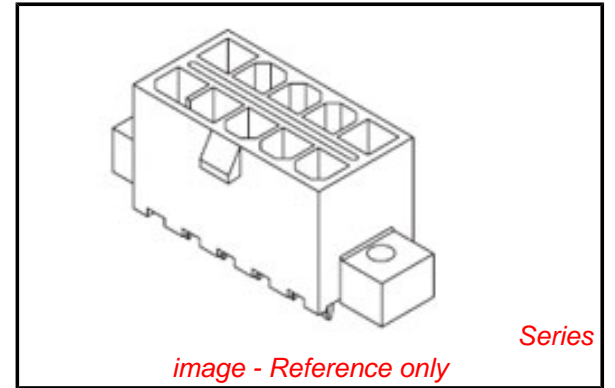
CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Headers
Series	30069
Application	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 to 16 AWG wire. . See Molex product specification PS-45750-001 for additional current de-rating information.. Square Pin, Solder Type, High Vibration Application
Overview	minifit_tpa
Product Name	Mini-Fit TPA™

Physical

Breakaway	No
Circuits (Loaded)	12
Circuits (maximum)	12
Color - Resin	Black
Durability (mating cycles max)	30
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Polyester
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
Pitch - Term. Interface (in)	0.165 In
Pitch - Term. Interface (mm)	4.20 mm
Plating min: Mating (µin)	35



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

[30069Series](#)

Mates With

[15-97-5041](#) Receptacle

Use With

Mini-Fit TPA™ Receptacle Housing [30071](#) , [30072](#)

Plating min: Mating (µm)	0.90
Plating min: Termination (µin)	35
Plating min: Termination (µm)	0.90
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	235

Material Info

Old Part Number	30069-12C1
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Reference - Drawing Numbers

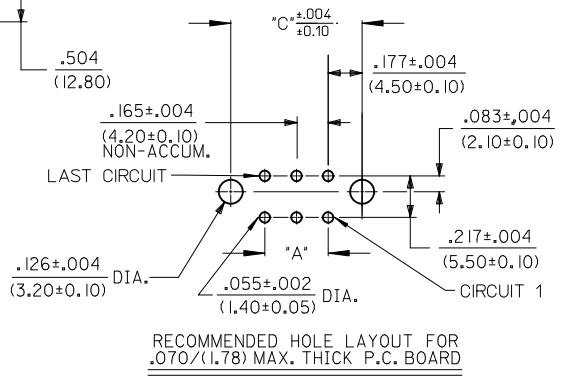
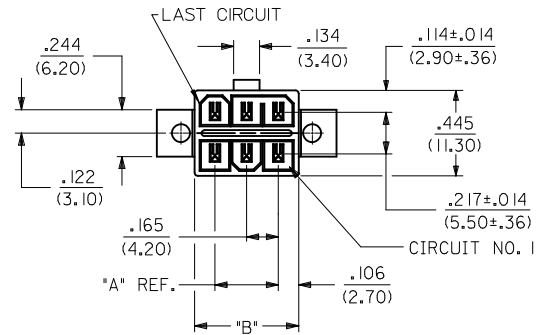
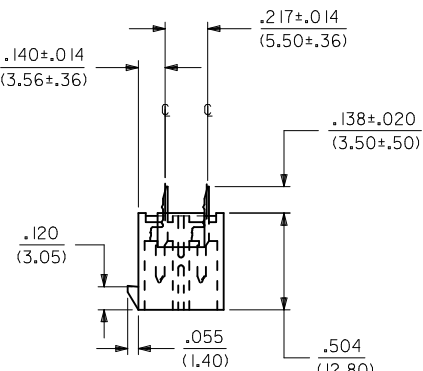
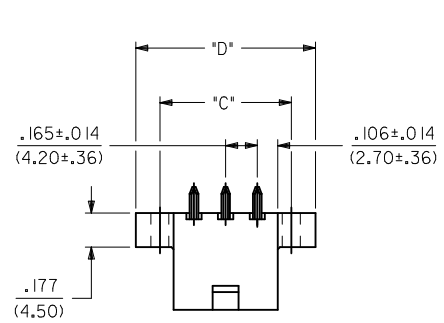
Product Specification	PS-5556-003
Sales Drawing	SDA-30069-****

This document was generated on 05/26/2010

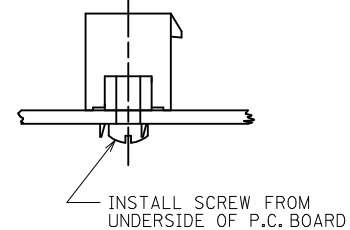
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NOTES:

- HOUSING MAT'L.: POLYESTER, UNFILLED, 94V-0. COLOR: BLACK.
TERMINAL MATERIAL: BRASS ALLOY 260.
- PLATINGS:
1 = .000035/(.00090) MIN. BRIGHT TIN OVER
.000020/(.00050) MIN. COPPER.
*2 = .000030/(.00076) MIN. SELECT GOLD AND
.000100/(.00254) MIN. SELECT MATTE TIN OVER
.000050/(.00127) MIN. NICKEL OVERALL.
*THE PRIMARY SHIPPING CARTON WILL BE LABELED
"COMPLIANT TO ROHS DIRECTIVE 2002/95/EC
AND ELV ANNEX II OF DIRECTIVE 2000/53/EC."
CARTONS WITHOUT THIS LABEL MAY CONTAIN
PRODUCT WITH TIN-LEAD PLATING.
- PRODUCT SPECIFICATION AND PROCESSING PARAMETERS:
SEE PS-5556-003
- PACKAGING SPECIFICATION: BULK PACKED
- PART IS DESIGNED FOR USE WITH 4-40 OR M3 SCREWS.
- PART MATES WITH RECEPTACLE 30067-*
- THIS PART CONFORMS TO CLASS 'B' REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



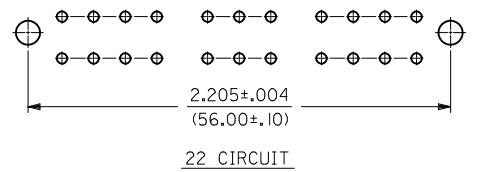
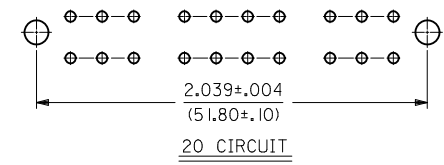
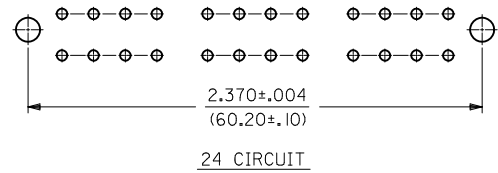
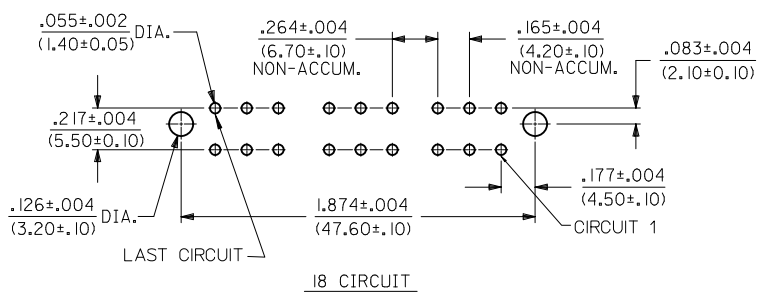
RECOMMENDED HOLE LAYOUT FOR
.070/(1.78) MAX. THICK P.C. BOARD



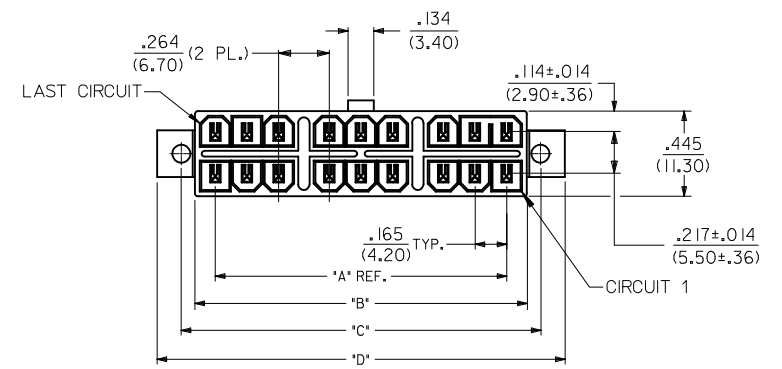
RECOMMENDED INSTALLATION
OF HEADER TO P.C. BOARD

PCB LAYOUT FOR 2-16 CIRCUIT PARTS WITH FLANGES

LAYOUT FOR 18-24 CIRCUIT PARTS WITH FLANGES

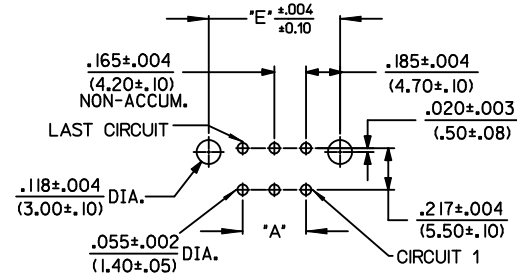
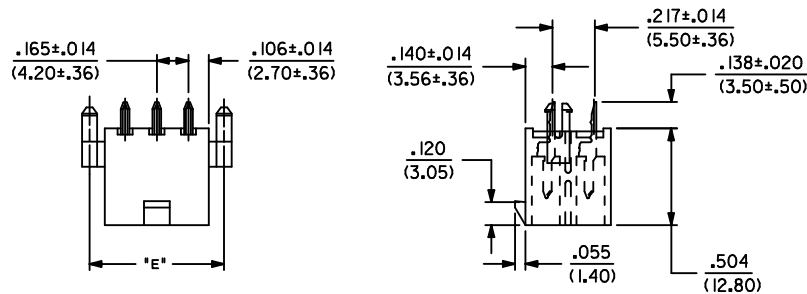
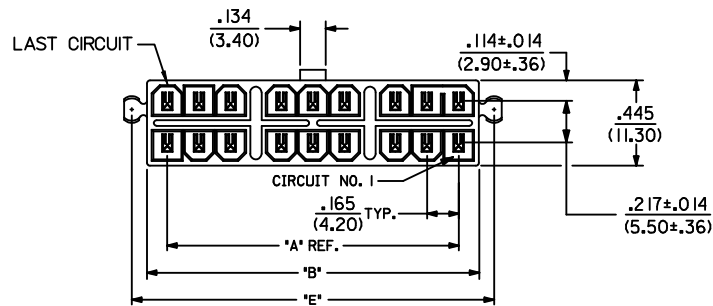
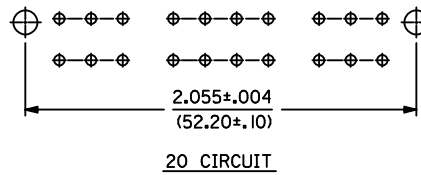
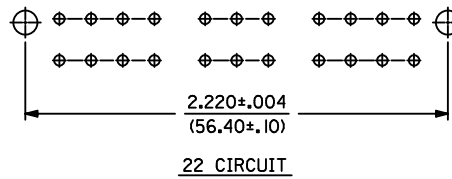
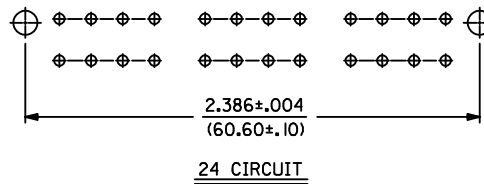
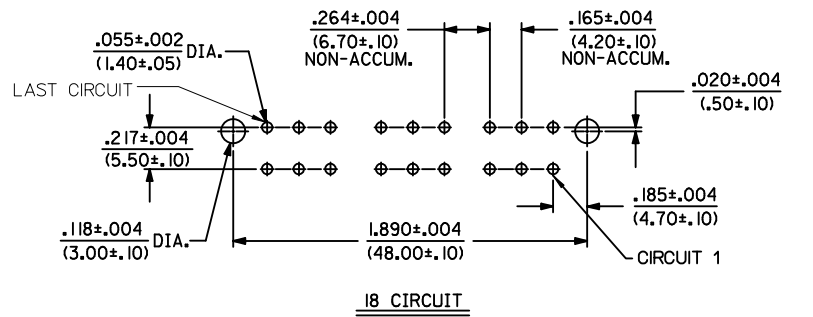


FLANGE MOUNT
(SEE SHT. 2 FOR PARTS WITH PEGS)

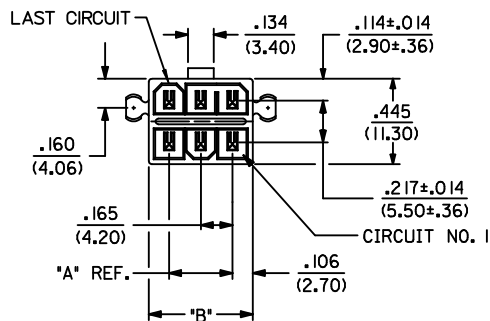


REMOVE DRAIN HOLES EC NO: UCP2009-1388 DRWING: KLOSTERNER 2008/11/25 CHKD: JEBEL 2010/02/09 APPR: FSMITH 2010/05/14 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	▽=0 ▽=0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .014 1 PLACE ± 0.36 ± --- ANGULAR ± 1/2°	IN/MM	1:1	METRIC	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY DATE	TITLE		
			RJF 9/19/91	MINI-FIT T.P.A. VERTICAL HEADER ASSEMBLY		
			CHECKED BY DATE	MOLEX MOLEX INCORPORATED		
			GEP 9/19/91	SDA-30069-****		
			APPROVED BY DATE	SHEET NO.		
			RAS 9/19/91	1 OF 4		
			MATERIAL NO.	DOCUMENT NO.		
			SEE CHARTS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

LAYOUT FOR 18-24 CIRCUIT PARTS WITH PEGS



PCB LAYOUT FOR 2-16 CIRCUIT PARTS



WITH PEGS

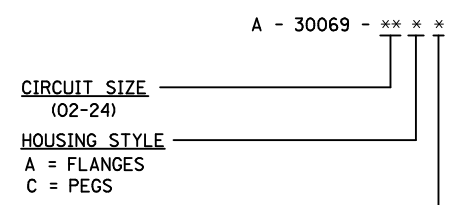
RECOMMENDED HOLE LAYOUT FOR
.070/(1.78) MAX. THICK P.C. BOARD

Correct peg-peg dim. EC NO: UCP2009-1388 DRAWN: KLOSTNER/ER 2008/11/25 CHKD: J.BELL 2010/02/09 APPR: F.SMITH 2010/05/14	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
		4 PLACES ± --- ± ---	3 PLACES ± --- ± .010	2 PLACES ± 0.25 ± .014	1 PLACE ± 0.36 ± ---	ANGULAR ± 1/2°	DRAWN BY DATE R/JF 9/19/91
				CHECKED BY DATE GEP 9/19/91		TITLE MINI-FIT T.P.A. VERTICAL HEADER ASSEMBLY	
				APPROVED BY DATE RAS 9/19/91		MATERIAL NO. DOCUMENT NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHARTS		MOLEX INCORPORATED SDA-30069-****	
				SIZE C		SHEET NO. 2 OF 4	
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

TIN-PLATED ASSEMBLIES WITH PEGS, WITHOUT DRAIN HOLES.							GOLD-PLATED ASSEMBLIES WITH PEGS, WITHOUT DRAIN HOLES.					
CKT. SIZE	ENG. NO.	EDP. NO.	DIM. "A"	DIM. "B"	DIM. "E"	DIM. "D"	ENG. NO.	EDP. NO.	DIM. "A"	DIM. "B"	DIM. "E"	DIM. "D"
2	A-30069-02C1	15-97-7023	—	.213 (5.40)	.370 (9.40)	—	A-30069-02C2	15-97-7025	—	.213 (5.40)	.370 (9.40)	—
4	A-30069-04C1	15-97-7043	.165 (4.20)	.378 (9.60)	.535 (13.60)	—	A-30069-04C2	15-97-7045	.165 (4.20)	.378 (9.60)	.535 (13.60)	—
6	A-30069-06C1	15-97-7063	.331 (8.40)	.543 (13.80)	.701 (17.80)	—	A-30069-06C2	15-97-7065	.331 (8.40)	.543 (13.80)	.701 (17.80)	—
8	A-30069-08C1	15-97-7083	.496 (12.60)	.709 (18.00)	.866 (22.00)	—	A-30069-08C2	15-97-7085	.496 (12.60)	.709 (18.00)	.866 (22.00)	—
10	A-30069-10C1	15-97-7103	.661 (16.80)	.874 (22.20)	1.031 (26.20)	—	A-30069-10C2	15-97-7105	.661 (16.80)	.874 (22.20)	1.031 (26.20)	—
12	A-30069-12C1	15-97-7123	.827 (21.00)	1.039 (26.40)	1.197 (30.40)	—	A-30069-12C2	15-97-7125	.827 (21.00)	1.039 (26.40)	1.197 (30.40)	—
14	A-30069-14C1	NOT TOOLED	.992 (25.20)	1.205 (30.60)	1.362 (34.60)	—	A-30069-14C2	NOT TOOLED	.992 (25.20)	1.205 (30.60)	1.362 (34.60)	—
16	A-30069-16C1	NOT TOOLED	1.157 (29.40)	1.370 (34.80)	1.528 (38.80)	—	A-30069-16C2	NOT TOOLED	1.157 (29.40)	1.370 (34.80)	1.528 (38.80)	—
18	A-30069-18C1	NOT TOOLED	1.520 (38.60)	1.732 (44.00)	1.890 (48.00)	—	A-30069-18C2	NOT TOOLED	1.520 (38.60)	1.732 (44.00)	1.890 (48.00)	—
20	A-30069-20C1	NOT TOOLED	1.685 (42.80)	1.898 (48.20)	2.055 (52.20)	—	A-30069-20C2	NOT TOOLED	1.685 (42.80)	1.898 (48.20)	2.055 (52.20)	—
22	A-30069-22C1	NOT TOOLED	1.850 (47.00)	2.063 (52.40)	2.220 (56.40)	—	A-30069-22C2	NOT TOOLED	1.850 (47.00)	2.063 (52.40)	2.220 (56.40)	—
24	A-30069-24C1	NOT TOOLED	2.016 (51.20)	2.228 (56.60)	2.386 (60.60)	—	A-30069-24C2	NOT TOOLED	2.016 (51.20)	2.228 (56.60)	2.386 (60.60)	—

CKT. SIZE	ENG. NO.	EDP. NO.	DIM. "A"	DIM. "B"	DIM. "E"	DIM. "D"	ENG. NO.	EDP. NO.	DIM. "A"	DIM. "B"	DIM. "E"	DIM. "D"
2												
4												
6												
8												
10												
12												
14												
16												
18												
20												
22												
24												

LEGEND:



PLATING (SEE SHT. 1, NOTE 6.)
 1 = TIN OVER COPPER.
 2 = GOLD OVER NICKEL.

REMOVE DH P/N'S EC NO: UCP2009-1386 DRAWN: JLOSTNER/ER 2008/11/25 CHKD: JBELL 2010/02/09 APPR: FSM/TH 2010/05/14	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ±1/2°	DIMENSION STYLE IN/MM DRAWN BY DATE R/JF 9/19/91 CHECKED BY DATE GEP 9/19/91 APPROVED BY DATE RAS 9/19/91	SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE MINI-FIT T.P.A. VERTICAL HEADER ASSEMBLY	MATERIAL NO. SEE CHARTS	DOCUMENT NO. SDA-30069-****	SHEET NO. 4 OF 4
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