

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0015977023](#)
Status: **Active**
Overview: [minifit_tpa](#)
Description: 4.20mm (.165") Pitch Mini-Fit TPA™ Header, Dual Row, Vertical, with Snap-in Plastic Peg PCB Lock, 2 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

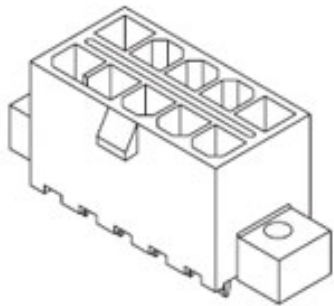
CSA	LR19980
TUV	R72081037
UL	E29179

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)	2
Circuits (maximum)	2
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



Series

image - Reference only

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
[30067](#) Mini-Fit TPA™ Receptacle Housing

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	30069-02C1
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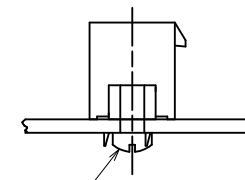
Reference - Drawing Numbers

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

This document was generated on 05/26/2010
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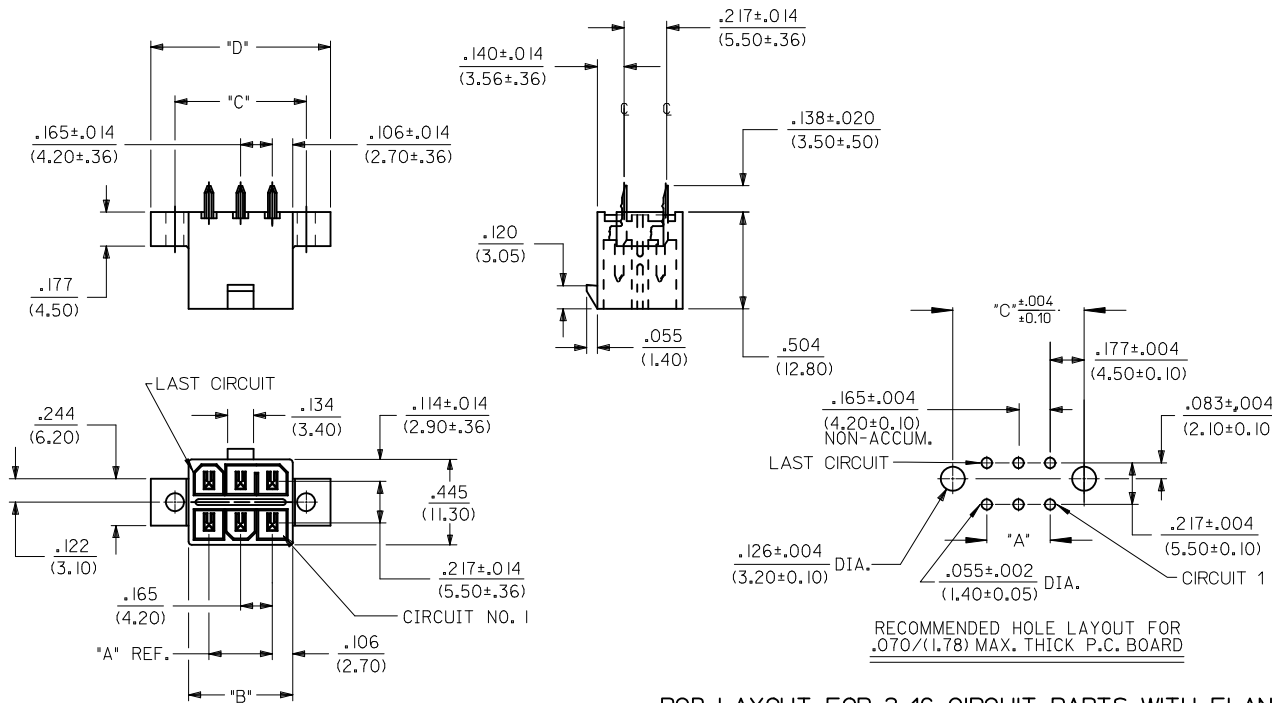
NOTES:

- 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-*.
7. THIS PART CONFORMS TO CLASS 'B' REQUIREMENTS OF COSMETIC
SPECIFICATION PS-45499-002.

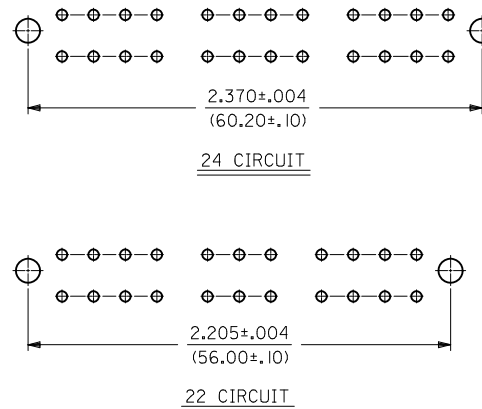
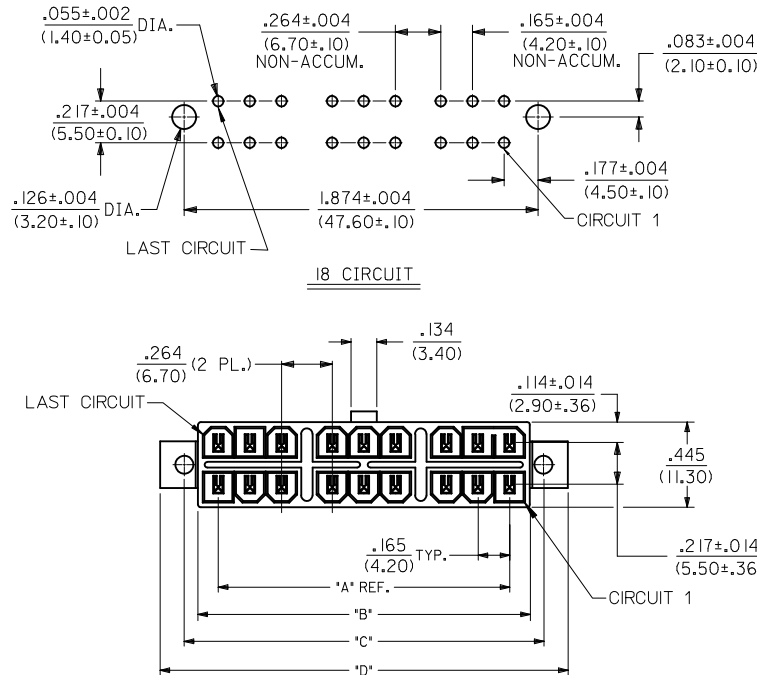


RECOMMENDED INSTALLATION
OF HEADER TO P.C. BOARD

PCB LAYOUT FOR 2-16 CIRCUIT PARTS WITH FLANGES



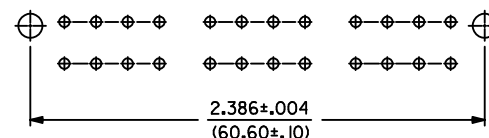
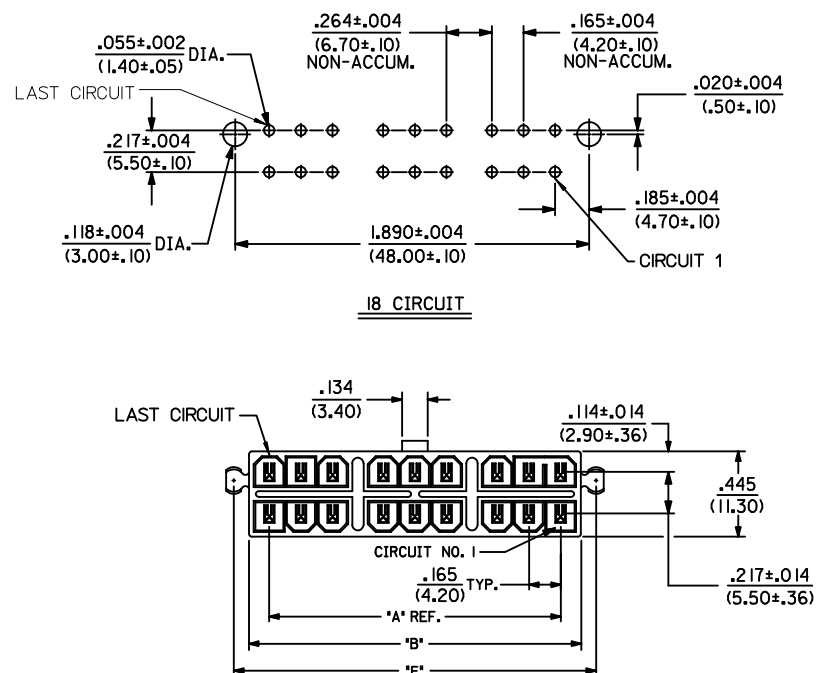
LAYOUT FOR 18-24 CIRCUIT PARTS WITH FLANGES



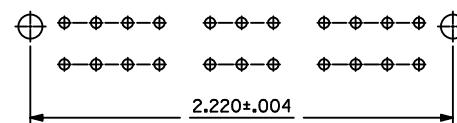
FLANGE MOUNT
(SEE SHT. 2 FOR PARTS WITH PEGS)

REMOVE DRAIN HOLES EC NO: UCP2009-1386 DRWN: JKLSTENIER 2008/11/25 CHKD: JBELL 2010/02/09 APPR: FSMITH 2010/05/14 REV	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
					DRAWN BY RJP	DATE 9/19/91	TITLE MINI-FIT T.P.A. VERTICAL HEADER ASSEMBLY		
					CHECKED BY GEP	DATE 9/19/91			
					APPROVED BY RAS	DATE 9/19/91	MOLEX MOLEX INCORPORATED		
					MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHARTS		SDA-30069-**** 1 OF 4		
					SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

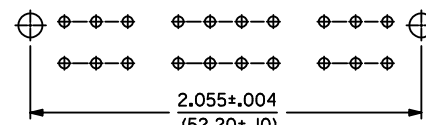
LAYOUT FOR 18-24 CIRCUIT PARTS WITH PEGS



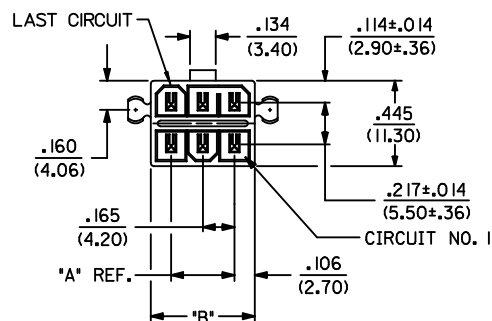
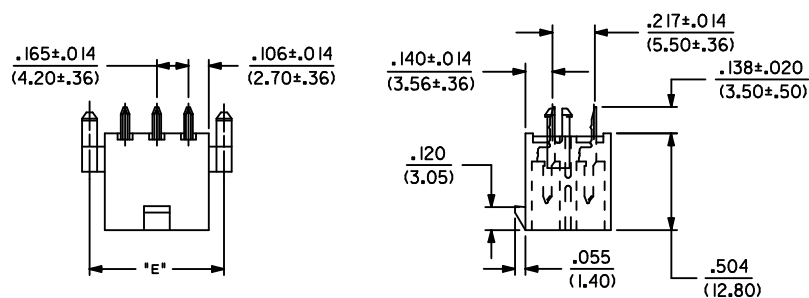
24 CIRCUIT



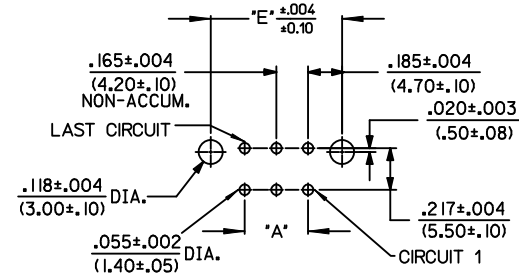
22 CIRCUIT



20 CIRCUIT



WITH PEGS



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

PCB LAYOUT FOR 2-16 CIRCUIT PARTS

Correct peg-peg dim. EC NO: UCP2009-1388 DRWN: JKLOSTEME IER2008/11/25 CHKD: JBELL 2010/02/09 APPR: FSMTH 2010/05/14	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
					IN/MM		1:1	METRIC			
				mm	INCH	DRAWN BY	DATE	TITLE			
			4 PLACES	± ---	± ---	RJF	9/19/91	MINI-FIT T.P.A.			
			3 PLACES	± ---	± .010	CHECKED BY	DATE	VERTICAL HEADER ASSEMBLY			
			2 PLACES	± 0.25	± .014	GEF	9/19/91				
			1 PLACE	± 0.36	± ---	APPROVED BY	DATE				
			ANGULAR ±1/2°		RAS	9/19/91	MOLEX MOLEX INCORPORATED				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
					SEE CHARTS		SDA-30069-****		2 OF 4		
		REV	SIZE C 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	
	TIN-PLATED ASSEMBLIES WITH PEGS, WITHOUT DRAIN HOLES.						GOLD-PLATED ASSEMBLIES WITH PEGS, WITHOUT DRAIN HOLES.							
J	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"	J
	2	A-30069-02C	15-97-7023	—	.213 (5.40)	.370 (9.40)	—	A-30069-02C2	15-97-7025	—	.213 (5.40)	.370 (9.40)	—	
	4	A-30069-04C	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)	—	
I	6	A-30069-06C	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)	—	I
	8	A-30069-08C	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-30069-10C	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-30069-12C	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)	—	
H	14	A-30069-14C	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)	—	H
	16	A-30069-16C	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-30069-18C	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)	—	
G	20	A-30069-20C	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)	—	G
	22	A-30069-22C	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-30069-24C	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)	—	
F	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"	F
	2													
	4													
E	6													E
	8													
	10													
D	12													D
	14													
	16													
	18													
C	20													C
	22													
	24													
B														B
A														A

LEGEND:

A - 30069 - * * * *

CIRCUIT SIZE
(02-24)

HOUSING STYLE
A = FLANGES
C = PEGS

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