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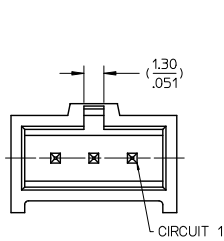
[Molex Connector Corporation](#)
[90136-1212](#)

For any questions, you can email us directly:

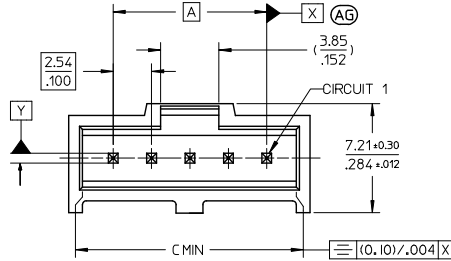
sales@integrated-circuit.com

10 9 8 7 6 5 4 3 2 1

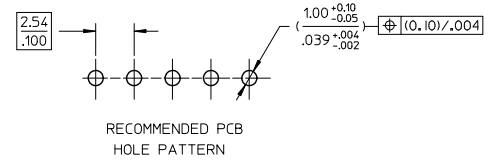
THROUGH HOLE VERSION (STRAIGHT ASSEMBLY)



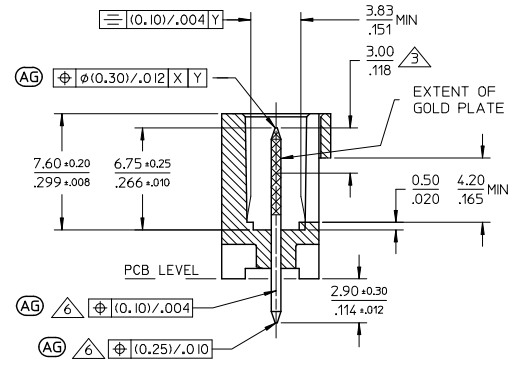
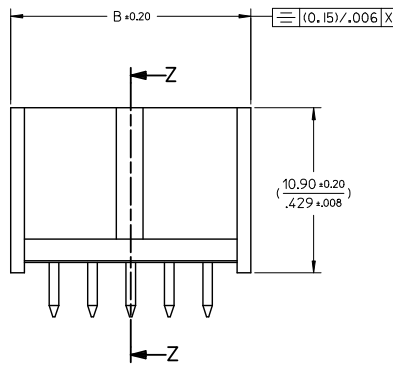
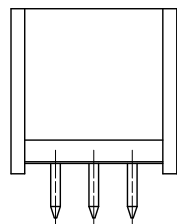
1 TO 3 CIRCUITS



4 TO 32 CIRCUITS



RECOMMENDED PCB
HOLE PATTERN



SECTION Z-Z

NOTES :

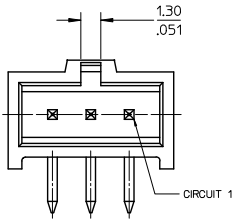
1. MATERIALS :
- PIN : (0.650) / .0255 SQ. BRASS WIRE.
- HOUSING : 15% GLASS FILLED POLYESTER
- UL 94V-0 COLOR BLACK
2. FOR PLATING VERSIONS, SEE SHEET 2.
3. MEASUREMENT POINT FOR MINIMUM PLATING THICKNESS.
4. PRODUCT SPEC: PS-99020-0001
5. RECOMMENDED PCB THICKNESS 1.6mm
6. SOLDER TAIL TO BE GAUGED.

AG

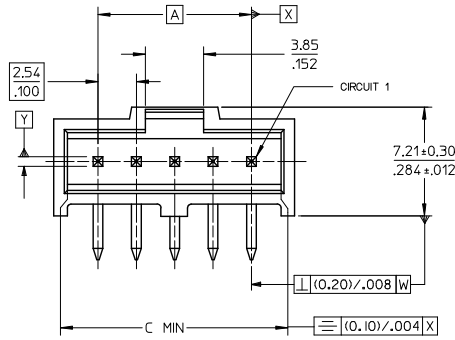
UPDATE DRAWING		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: S2016-0416	2015/10/30	DRWN:GGH	2015/11/04	mm	INCH	MM/IN	DATE	NTS	METRIC	C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER		molex	
CHKD:SEANG	2015/11/05	APPR:KHLIM		4 PLACES ±---	±---	DRAWN BY	1987/10/30						
				3 PLACES ±---	±.004	CHECKED BY	DATE			DOCUMENT NO. SDA-90136		SHEET NO. 1 OF 3	
				2 PLACES ±0.10	±---	BENRIGHT	2002/08/15						
				1 PLACE ±---	±---	APPROVED BY	DATE			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
				0 PLACE ±	±	MLONG	2011/04/15						
				ANGULAR ±1/2°		MATERIAL NO.		SEE TABLE					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE							

9 8 7 6 5 4 3 2 1

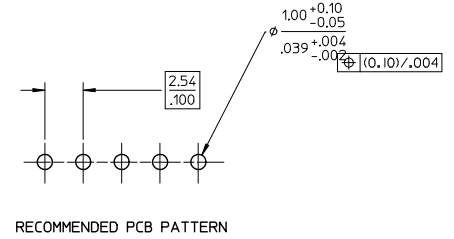
RIGHT ANGLE VERSION



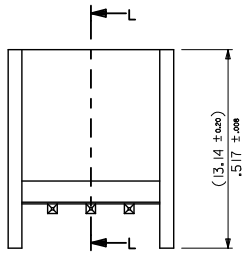
1 TO 3 CIRCUITS



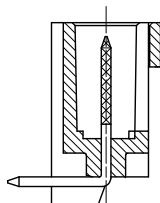
4 TO 32 CIRCUITS



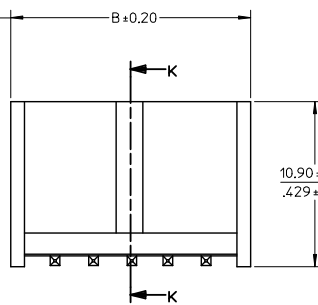
RECOMMENDED PCB PATTERN



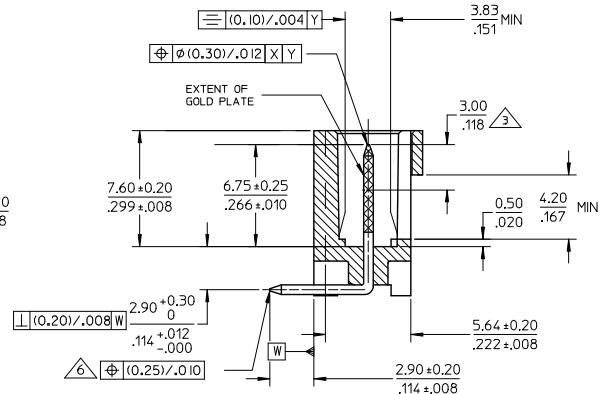
1 TO 6 CIRCUITS



SECTION L-L



7 TO 32 CIRCUITS



SECTION K-K

UPDATE DRAWING		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: S2016-0416	2015/10/30	DRWN:GCH	2015/11/04	CHKD:ENG	2015/11/05	APPR:KHL	2015/11/05	NTS	MM/IN	METRIC			
4 PLACES ± ---		± ---		± ---		DRAWN BY		DATE		TITLE		C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER	
3 PLACES ± ---		± ---		± .004		CHECKED BY		DATE		MATERIAL NO.		DOCUMENT NO.	
2 PLACES ± 0.10		± ---		± ---		BENRIGHT		2002/08/15		SEE TABLE		SDA-90136	
1 PLACE ± ---		± ---		± ---		APPROVED BY		DATE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO.	
0 PLACE ± ---		± ---		± ---		MLONG		2011/04/15				2 OF 3	
ANGULAR ± 1/2°													
DRAFT WHERE APPLICABLE													
WITHIN DIMENSIONS													

10					9					8					7					6					5					4					3					2					1				
F	CKTS	ASSEMBLY P/N			DIM A			DIM B			DIM C			NOTES 6. FOR PLATING DETAILS SEE SDES 99000-0003 90136 - X X X X INDICATES NO. OF CIRCUITS PLATING 1 - TYPE A 2 - TYPE E 3 - TYPE F 4 - TYPE G STYLE - 1 - STRAIGHT ASSEMBLY STYLE - 2 - RIGHT ANGLE ASSEMBLY STYLE - 5 - STRAIGHT ASSEMBLY WITH VOIDS STYLE - 7 - NON STANDARD PRODUCT 7. PLATING TYPES 1 - TYPE A TIN 3.04μm MIN. OVER 1.27 - 2.54μm NICKEL. 2 - TYPE E GOLD STRIPE 0.38 - 0.64μm IN SELECTED AREA (2 SIDES) & 3.04μm MIN TIN IN SELECTED AREA OVER 1.3 - 1.78μm NICKEL OVERALL. 3 - TYPE F GOLD STRIPE 0.762 - 1.024μm IN SELECTED AREA (2 SIDES) & 3.04μm MIN TIN IN SELECTED AREA OVER 1.3 - 1.78μm NICKEL OVERALL. 4 - TYPE G SELECTIVE GOLD PLATE. GOLD FLASH 0.05 - 0.104μm IN SELECTED AREA AND 3.04μm MIN - 5.04μm MAX TIN IN SELECTED AREA OVER 1.3 - 2.54μm NICKEL OVERALL.																																			
	1	90136-**-01			-			(5.89)/.232			(4.06)/.160																																						
	2	90136-**-02			(2.54)/.100			(8.43)/.332			(6.60)/.260																																						
	3	90136-**-03			(5.08)/.200			(10.97)/.432			(9.14)/.360																																						
	4	90136-**-04			(7.62)/.300			(13.51)/.532			(11.68)/.460																																						
	5	90136-**-05			(10.16)/.400			(16.05)/.632			(14.22)/.560																																						
E	7	90136-**-07			(15.24)/.600			(21.13)/.832			(19.30)/.760																																						
	8	90136-**-08			(17.78)/.700			(23.67)/.932			(21.84)/.860																																						
	9	90136-**-09			(20.32)/.800			(26.21)/1.032			(24.38)/.960																																						
	10	90136-**-10			(22.86)/.900			(28.75)/1.132			(26.92)/1.060																																						
	11	90136-**-11			(25.4)/1.000			(31.29)/1.232			(29.46)/1.160																																						
	12	90136-**-12			(27.94)/1.100			(33.83)/1.332			(32.00)/1.260																																						
D	13	90136-**-13			(30.48)/1.200			(36.37)/1.432			(34.54)/1.360																																						
	14	90136-**-14			(33.02)/1.300			(38.91)/1.532			(37.08)/1.460																																						
	15	90136-**-15			(35.56)/1.400			(41.45)/1.632			(39.62)/1.560																																						
	16	90136-**-16			(38.10)/1.500			(43.99)/1.732			(42.16)/1.660																																						
	17	90136-**-17			(40.64)/1.600			(46.53)/1.832			(44.70)/1.760																																						
	18	90136-**-18			(43.18)/1.700			(49.07)/1.932			(47.24)/1.860																																						
C	19	90136-**-19			(45.72)/1.800			(51.61)/2.032			(49.78)/1.960																																						
	20	90136-**-20			(48.26)/1.900			(54.15)/2.132			(52.32)/2.060																																						
	21	90136-**-21			(50.80)/2.000			(56.69)/2.232			(54.86)/2.160																																						
	22	90136-**-22			(53.34)/2.100			(59.23)/2.332			(57.40)/2.260																																						
	23	90136-**-23			(55.88)/2.200			(61.77)/2.432			(59.94)/2.360																																						
	24	90136-**-24			(58.42)/2.300			(64.31)/2.532			(62.48)/2.460																																						
B	25	90136-**-25			(60.96)/2.400			(66.85)/2.632			(65.02)/2.560																																						
	26	90136-**-26			(63.50)/2.500			(69.39)/2.732			(67.56)/2.660																																						
	27	90136-**-27			(66.04)/2.600			(71.93)/2.832			(70.10)/2.760																																						
	28	90136-**-28			(68.58)/2.700			(74.47)/2.932			(72.64)/2.860																																						
	29	90136-**-29			(71.12)/2.800			(77.01)/3.032			(75.18)/2.960																																						
	30	90136-**-30			(73.66)/2.900			(79.55)/3.132			(77.72)/3.060																																						
A	31	90136-**-31			(76.20)/3.000			(82.09)/3.232			(80.26)/3.160																																						
	32	90136-**-32			(78.74)/3.100			(84.63)/3.332			(82.80)/3.260																																						
UPDATE DRAWING EC NO: SZ016-0416 2015/10/30 DRAWN:GGH 2015/11/04 CHKD:ENG 2015/11/05 APPR:KHL TM REV					QUALITY SYMBOLS √=0 √=0 √=0					GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .004 2 PLACES ± 0.10 ± --- 1 PLACE ± --- ± --- 0 PLACE ± ± ANGULAR ±1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					DIMENSION STYLE MM/IN DRAWN BY DATE KS 1987/10/30 CHECKED BY DATE BENRIGHT 2002/08/15 APPROVED BY DATE MLONG 2011/04/15 MATERIAL NO. SEE TABLE					SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION					C-GRID III SINGLE ROW STRAIGHT SHROUDED HEADER molex					DOCUMENT NO. SDA-90136 SHEET NO. 3 OF 3																			
ib_frame_A3_P_AM-T Rev. G 2012/01/11					9					8					7					6					5					4					3					2					1				