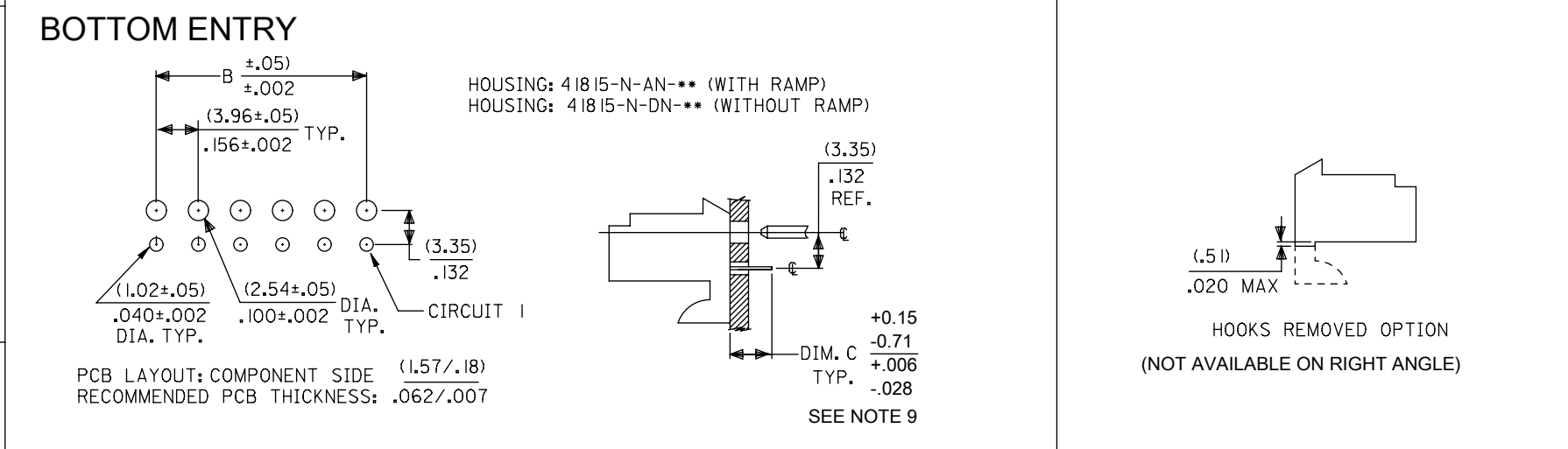


[illegible]

TOP ENTRY

Housing: 418 I5-N-AN-** (WITH RAMP)
Housing: 418 I5-N-DN-** (WITHOUT RAMP)

(1.47)REF.
.058

B $\pm.05$
 $\pm.002$

(3.96 $\pm.05$)
.156 $\pm.002$ TYP

(4.62)REF.
.182

CIRCUIT 1

$\varnothing(1.52) \pm 0.05$ DIA TYP
.060 $\pm.002$

REF. (3.18)
.125

+0.28
DIM. C
-0.48
+0.011
TYP. -.019

SEE NOTE 9

PCB LAYOUT: COMPONENT SIDE (1.57/.18)
RECOMMENDED PCB THICKNESS: .062/.007

DIM. B	DIM. A	NO. OF CKTS
(3.96) .156	(7.82±.25) .308±.010	2
(7.92) .312	(11.79±.25) .464±.010	3
(11.89) .458	(15.75±.25) .620±.010	4
(15.85) .624	(19.71±.25) .776±.010	5
(19.81) .780	(23.67±.25) .932±.010	6
(23.77) .936	(27.64±.30) 1.088±.012	7
(27.74) 1.092	(31.60±.25) 1.244±.012	8
(31.70) 1.248	(35.56±.30) 1.400±.012	9
(35.66) 1.404	(39.52±.30) 1.556±.012	10
(39.62) 1.560	(43.48±.30) 1.712±.012	11
(43.59) 1.716	(47.45±.30) 1.868±.012	12
(47.55) 1.872	(51.41±.30) 2.024±.012	13
(51.51) 2.028	(55.37±.36) 2.180±.014	14
(55.47) 2.184	(59.33±.36) 2.336±.014	15

NOTES:

1. MATERIAL: HOUSING: POLYESTER, RATED UL 94V-0, COLOR: NATURAL (WHITE)
2. FINISH:
 - (197) = OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN
OVER 0.00127/.000050 MIN NICKEL.
 - (208) = SELECT GOLD: 0.00038/.000015 MIN,
SELECT TIN: 0.00254/.000100 MIN,
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
 - (228) = SELECT GOLD: 0.00076/.000030 MIN,
SELECT TIN: 0.00254/.000100 MIN,
OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
 - (909) = OVERALL TIN: 0.00254/.000100 MIN.
3. PRODUCT SPECIFICATION: PS-08-50
4. PACKAGING: SEE CHARTS
5. FOR TOP ENTRY AND RIGHT ANGLE ASSEMBLIES WITH LOWER INSERTION
FORCE USE SINGLE BEAM CONTACT. (TERMINAL NO. 4244)
6. SOLDERABILITY: WHEN PARTS ARE SOLDERED AT A TEMPERATURE OF 230°C
(446°F) FOR 5 SECONDS EACH SOLDERED SURFACE SHALL BE A MINIMUM OF 95%
COVERED WITH A SMOOTH CONTINUOUS ADHERENT COATING. FOR ADDITIONAL
INFORMATION SEE SMES-152.
7. PARTS ARE STACKABLE END TO END ON (3.96)/.156 CENTERLINE.
8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC PS-45499-002.
9. DIMENSION 'C' MEASURED WITH TERMINAL PUSHED IN AGAINST THE STOP.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
FUNCTIONAL SYMBOLS F = 0 E = 0 P = 0 DIVISIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: OBSOLETE PART NUMBER			molex KK 156 HOUSING PCB 41815 SERIES					
	MM/INCH		NTS										
	GENERAL TOLERANCES (UNLESS SPECIFIED)												
			MM	INCH				EC NO: 651926 DRWN: ABHISP1 2020/12/09 CHK'D: GGA 2020/12/29 APPR: GGA 2020/12/29					
	4 PLACES	±		±									
	3 PLACES	±		± 0.01									
	2 PLACES	±	0.25	± 0.015									
	1 PLACE		±	0.38	±	INITIAL REVISION: DRWN: SAMIEC 1987/01/28 APPR: SAMIEC 1987/01/28			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	0 PLACES		±		±				SDA-41815		PSD	000	AR
ANGULAR TOL		±	0.5 °										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER		
						B-SIZE	41815	SEE TABLE	GENERAL MARKET		1 OF 11		

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<table><tr><td colspan="2">Assy. Proc:</td><td colspan="2">RIGHT ANGLE</td><td colspan="2">Assy. Proc:</td><td colspan="2">BOTTOM ENTRY</td><td colspan="2">Assy. Proc:</td><td colspan="2"></td><td colspan="2">Assy. Proc:</td><td colspan="2">TOP ENTRY</td></tr><tr><td colspan="2">Housing No:</td><td colspan="2">41815-N-AN</td><td colspan="2">Housing No:</td><td colspan="2">41815-N-DN</td><td colspan="2">Housing No:</td><td colspan="2"></td><td colspan="2">Housing No:</td><td colspan="2">41815-N-DN</td></tr><tr><td colspan="2">Options</td><td colspan="2">WITH RAMP</td><td colspan="2">Options</td><td colspan="2">NO RAMPS</td><td colspan="2">Options</td><td colspan="2"></td><td colspan="2">Options</td><td colspan="2">NO RAMPS</td></tr><tr><td colspan="2">Terminal No:</td><td colspan="2">2144-AA-A1AA-228B</td><td colspan="2">Terminal No:</td><td colspan="2">2188-P909</td><td colspan="2">Terminal No:</td><td colspan="2"></td><td colspan="2">Terminal No:</td><td colspan="2">2144-AA-A1AA-P909B</td></tr><tr><td colspan="2">Term Matl:</td><td colspan="2">BRASS</td><td colspan="2">Term Matl:</td><td colspan="2">BRASS</td><td colspan="2">Term Matl:</td><td colspan="2"></td><td colspan="2">Term Matl:</td><td colspan="2">BRASS</td></tr><tr><td colspan="2">Plating:</td><td colspan="2">228 – GOLD</td><td colspan="2">Plating:</td><td colspan="2">P909 – TIN</td><td colspan="2">Plating:</td><td colspan="2"></td><td colspan="2">Plating:</td><td colspan="2">P909 – TIN</td></tr><tr><td colspan="2">Dim C:</td><td colspan="2">(3.68) / .145</td><td colspan="2">Dim C:</td><td colspan="2">(4.06) / .160</td><td colspan="2">Dim C:</td><td colspan="2"></td><td colspan="2">Dim C:</td><td colspan="2">(3.05) / .120</td></tr><tr><td colspan="2">Voids:</td><td colspan="2">NONE</td><td colspan="2">Voids:</td><td colspan="2">NONE</td><td colspan="2">Voids:</td><td colspan="2"></td><td colspan="2">Voids:</td><td colspan="2">NONE</td></tr><tr><td colspan="2">Hooks Cut:</td><td colspan="2">NO</td><td colspan="2">Hooks Cut:</td><td colspan="2">YES</td><td colspan="2">Hooks Cut:</td><td colspan="2"></td><td colspan="2">Hooks Cut:</td><td colspan="2">NO</td></tr><tr><td colspan="2">Packaging:</td><td colspan="2">PK-41815-001 TRAY</td><td colspan="2">Packaging:</td><td colspan="2">PK-41815-001 TRAY</td><td colspan="2">Packaging:</td><td colspan="2"></td><td colspan="2">Packaging:</td><td colspan="2">PK-41815-001 TRAY</td></tr><tr><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr><tr><td colspan="2">Ckts</td><td colspan="2">Material No</td><td colspan="2">Engineer Number</td><td colspan="2">Material No</td><td colspan="2">Engineer Number</td><td colspan="2">Material No</td><td colspan="2">Engineer Number</td><td colspan="2">Material No</td><td colspan="2">Engineer Number</td></tr><tr><td colspan="2">2</td><td colspan="2">09-48-5023</td><td colspan="2">A-41815-0313</td><td colspan="2">41815-0327</td><td colspan="2">A-41815-0327</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">41815-0355</td><td colspan="2">A-41815-0355</td></tr><tr><td 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colspan="2">A-41815-0359</td></tr><tr><td colspan="2">7</td><td colspan="2">09-48-5073</td><td colspan="2">A-41815-0318</td><td colspan="2">41815-0332</td><td colspan="2">A-41815-0332</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">41815-0360</td><td colspan="2">A-41815-0360</td></tr><tr><td colspan="2">8</td><td colspan="2">09-48-5083</td><td colspan="2">A-41815-0319</td><td colspan="2">09-48-2086</td><td colspan="2">A-41815-0333</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">41815-0361</td><td colspan="2">A-41815-0361</td></tr><tr><td colspan="2">9</td><td colspan="2">09-48-5093</td><td colspan="2">A-41815-0320</td><td colspan="2">41815-0334</td><td colspan="2">A-41815-0334</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">41815-0362</td><td colspan="2">A-41815-0362</td></tr><tr><td colspan="2">10</td><td colspan="2">09-48-5103</td><td colspan="2">A-41815-0321</td><td colspan="2">09-48-2106</td><td colspan="2">A-41815-0335</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">09-48-2107</td><td colspan="2">A-41815-0363</td></tr><tr><td colspan="2">11</td><td colspan="2">09-48-5113</td><td colspan="2">A-41815-0322</td><td colspan="2">41815-0336</td><td colspan="2">A-41815-0336</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">41815-0364</td><td colspan="2">A-41815-0364</td></tr><tr><td colspan="2">12</td><td colspan="2">09-48-5123</td><td colspan="2">A-41815-0323</td><td colspan="2">41815-0337</td><td colspan="2">A-41815-0337</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">41815-0365</td><td colspan="2">A-41815-0365</td></tr><tr><td colspan="2">13</td><td colspan="2">09-48-5133</td><td colspan="2">A-41815-0324</td><td colspan="2">41815-0338</td><td colspan="2">A-41815-0338</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">41815-0366</td><td colspan="2">A-41815-0366</td></tr><tr><td colspan="2">14</td><td colspan="2">09-48-5143</td><td colspan="2">A-41815-0325</td><td colspan="2">41815-0339</td><td colspan="2">A-41815-0339</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">41815-0367</td><td colspan="2">A-41815-0367</td></tr><tr><td colspan="2">15</td><td colspan="2">09-48-5153</td><td colspan="2">A-41815-0326</td><td colspan="2">41815-0340</td><td colspan="2">A-41815-0340</td><td colspan="2"></td><td colspan="2"></td><td colspan="2">41815-0368</td><td colspan="2">A-41815-0368</td></tr></table>																				Assy. Proc:		RIGHT ANGLE		Assy. Proc:		BOTTOM ENTRY		Assy. Proc:				Assy. Proc:		TOP ENTRY		Housing No:		41815-N-AN		Housing No:		41815-N-DN		Housing No:				Housing No:		41815-N-DN		Options		WITH RAMP		Options		NO RAMPS		Options				Options		NO RAMPS		Terminal No:		2144-AA-A1AA-228B		Terminal No:		2188-P909		Terminal No:				Terminal No:		2144-AA-A1AA-P909B		Term Matl:		BRASS		Term Matl:		BRASS		Term Matl:				Term Matl:		BRASS		Plating:		228 – GOLD		Plating:		P909 – TIN		Plating:				Plating:		P909 – TIN		Dim C:		(3.68) / .145		Dim C:		(4.06) / .160		Dim C:				Dim C:		(3.05) / .120		Voids:		NONE		Voids:		NONE		Voids:				Voids:		NONE		Hooks Cut:		NO		Hooks Cut:		YES		Hooks Cut:				Hooks Cut:		NO		Packaging:		PK-41815-001 TRAY		Packaging:		PK-41815-001 TRAY		Packaging:				Packaging:		PK-41815-001 TRAY																		Ckts		Material No		Engineer Number		Material No		Engineer Number		Material No		Engineer Number		Material No		Engineer Number		2		09-48-5023		A-41815-0313		41815-0327		A-41815-0327						41815-0355		A-41815-0355		3		09-48-5033		A-41815-0314		41815-0328		A-41815-0328						41815-0356		A-41815-0356		4		09-48-5043		A-41815-0315		41815-0329		A-41815-0329						09-48-2047		A-41815-0357		5		09-48-5053		A-41815-0316										41815-0358		A-41815-0358		6		09-48-5063		A-41815-0317		41815-0331		A-41815-0331						41815-0359		A-41815-0359		7		09-48-5073		A-41815-0318		41815-0332		A-41815-0332						41815-0360		A-41815-0360		8		09-48-5083		A-41815-0319		09-48-2086		A-41815-0333						41815-0361		A-41815-0361		9		09-48-5093		A-41815-0320		41815-0334		A-41815-0334						41815-0362		A-41815-0362		10		09-48-5103		A-41815-0321		09-48-2106		A-41815-0335						09-48-2107		A-41815-0363		11		09-48-5113		A-41815-0322		41815-0336		A-41815-0336						41815-0364		A-41815-0364		12		09-48-5123		A-41815-0323		41815-0337		A-41815-0337						41815-0365		A-41815-0365		13		09-48-5133		A-41815-0324		41815-0338		A-41815-0338						41815-0366		A-41815-0366		14		09-48-5143		A-41815-0325		41815-0339		A-41815-0339						41815-0367		A-41815-0367		15		09-48-5153		A-41815-0326		41815-0340		A-41815-0340						41815-0368		A-41815-0368	
Assy. Proc:		RIGHT ANGLE		Assy. Proc:		BOTTOM ENTRY		Assy. Proc:				Assy. Proc:		TOP ENTRY																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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3		09-48-5033		A-41815-0314		41815-0328		A-41815-0328						41815-0356		A-41815-0356																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
4		09-48-5043		A-41815-0315		41815-0329		A-41815-0329						09-48-2047		A-41815-0357																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
5		09-48-5053		A-41815-0316										41815-0358		A-41815-0358																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
6		09-48-5063		A-41815-0317		41815-0331		A-41815-0331						41815-0359		A-41815-0359																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
7		09-48-5073		A-41815-0318		41815-0332		A-41815-0332						41815-0360		A-41815-0360																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
8		09-48-5083		A-41815-0319		09-48-2086		A-41815-0333						41815-0361		A-41815-0361																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
9		09-48-5093		A-41815-0320		41815-0334		A-41815-0334						41815-0362		A-41815-0362																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
10		09-48-5103		A-41815-0321		09-48-2106		A-41815-0335						09-48-2107		A-41815-0363																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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12		09-48-5123		A-41815-0323		41815-0337		A-41815-0337						41815-0365		A-41815-0365																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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