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ELECTRONICS

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Jameco Part Number 743171

FEATURES AND SPECIFICATIONS

Features and Benefits

- Positive lock
- Fully isolated terminals
- Polarized housing assures proper mating
- Male and female terminals may be used in receptacle housing

Reference Information

Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No.: R75107
 Mates With: [5219](#) header and [3191](#) plug
 Use With: Standard .093" terminal
 Designed In: Inches

Electrical

Voltage: 600V
 Current: 12.0A max.*
 Dielectric Withstanding Voltage: 5000V AC rms

Mechanical

Contact Retention to Housing: 20 lb min.

Physical

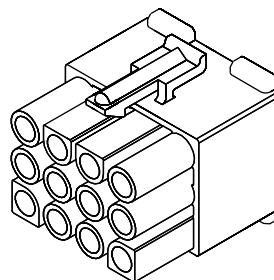
Housing: Nylon, UL 94V-0 or 94V-2
 Operating Temperature: -40 to +105°C

* Depending on circuit size and wire gauge; please refer to product specifications



6.71mm (.264") Pitch .093" Pin and Socket Receptacle

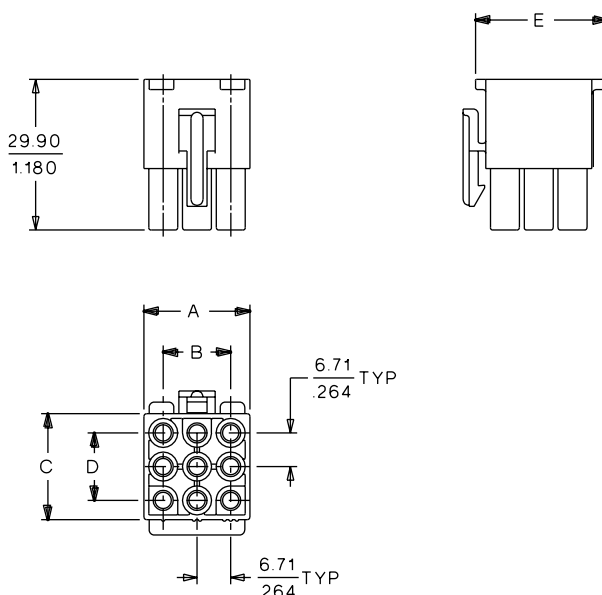
3191



Power Connectors

F

CATALOG DRAWING (FOR REFERENCE ONLY)

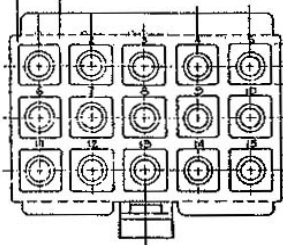


ORDERING INFORMATION AND DIMENSIONS

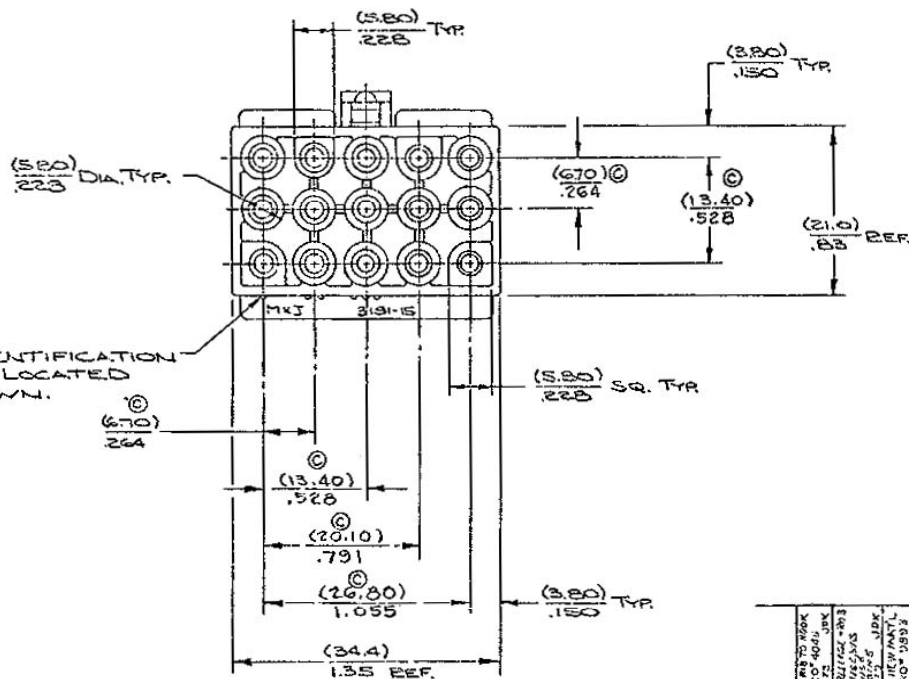
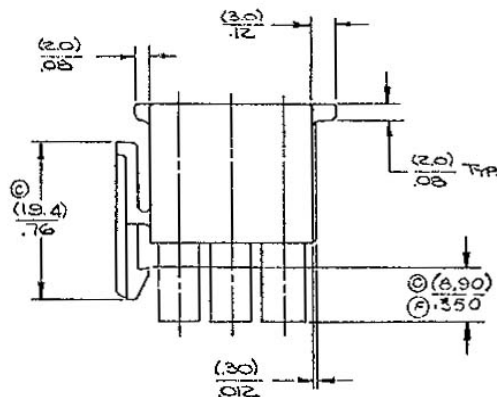
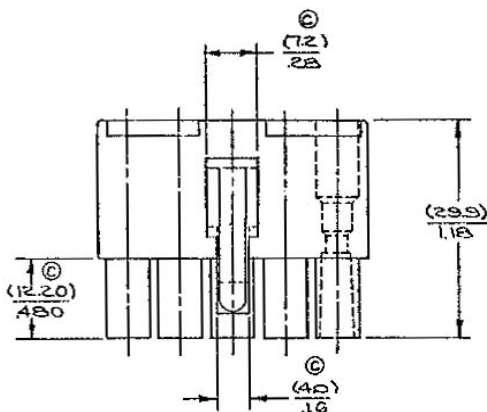
Circuits	Order No.		Amperes per Circuit	Dimension				
	94V-2	94V-0		A	B	C	D	E
1	• 19-09-1019	• 19-09-1016	12	7.60 (.300)		7.60 (.300)		10.62 (.418)
2	• 19-09-1029	• 19-09-1026	12	14.30 (.560)	6.71 (.264)	7.60 (.300)		12.70 (.500)
3	• 19-09-1039	• 19-09-1036	11	21.00 (.830)	13.42 (.528)	7.60 (.300)		12.70 (.500)
4	• 19-09-1049	• 19-09-1046	9	27.70 (1.090)	20.13 (.792)	7.60 (.300)		12.70 (.500)
6	• 19-09-1069	• 19-09-1066	9	21.00 (.830)	13.42 (.528)	14.30 (.560)	6.71 (.264)	19.38 (.763)
9	• 19-09-1099	• 19-09-1096	9	21.00 (.830)	13.42 (.528)	21.00 (.830)	13.42 (.528)	26.20 (1.030)
12	• 19-09-1129	• 19-09-1126	9	27.70 (1.090)	20.13 (.792)	21.00 (.830)	13.42 (.528)	26.20 (1.030)
15	• 19-09-1159	• 19-09-1156	9	34.40 (1.350)	26.84 (1.056)	21.00 (.830)	13.42 (.528)	26.20 (1.030)

• US Standard Product, available through Molex franchised distributors

(5.40)
.213 TYP



(5.40)
.213 TYP



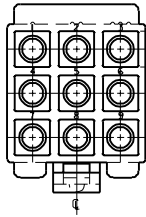
SIDE IDENTIFICATION
BEADS LOCATED
AS SHOWN.

19-09-3151	SD-3191-15R1-200	ASAHI LEONA FR-200
NOT TOOLED	SD-3191-15R1-202	MOD. NYLON 6/6 94V-C DUPONT FE-3016
NOT TOOLED	SD-3191-15R1-200	MOD. NYLON 6/6 94V-O MONSANTO M340
19-09-1156	SD-3111-15R1-201	MOD. NYLON 6/6 94V-O WELLMID FR22-FW
19-09-1159	SD-3191-15R1	NYLON TYPE 6/6 94V-O
PART NO.	ENG. NO.	MATERIAL

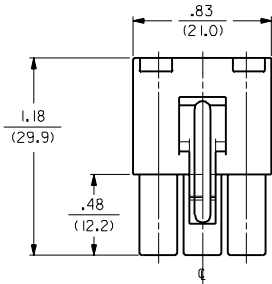
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NOT TOOLED	SD-3191-15R1-202	MOD. NYLON 6/6 94V-C DUPONT FE-3016
NOT TOOLED	SD-3191-15R1-200	MOD. NYLON 6/6 94V-O MONSANTO M340
19-09-1156	SD-3111-15R1-201	MOD. NYLON 6/6 94V-O WELLMID FR22-FW
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PART NO.	ENG. NO.	MATERIAL

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PART NO.	ENG. NO.	MATERIAL

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19-09-1159	SD-3191-15R1	NYLON TYPE 6/6 94V-O
PART NO.	ENG. NO.	MATERIAL



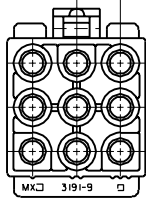
.213
(5.40) SO.



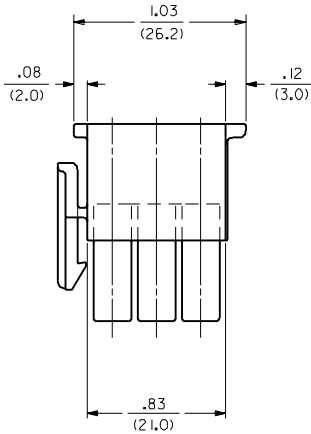
1.18
(29.9)

.48
(12.2)

.264
(6.71) TYP.



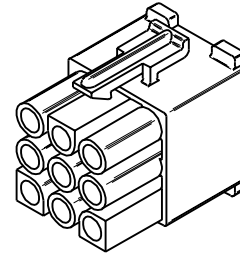
.264
(6.71) TYP.



.08
(2.0)

.12
(3.0)

.83
(21.0)



RECEPTACLE

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED
TOLERANCES: ANGULAR ± .005° TO

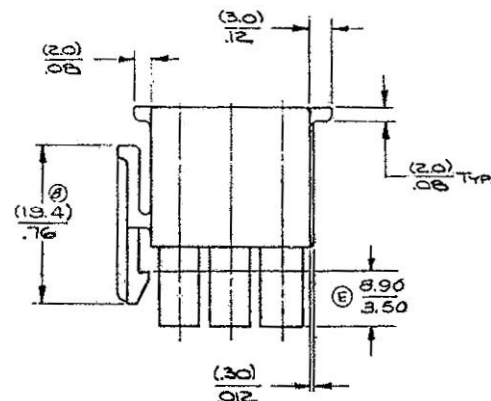
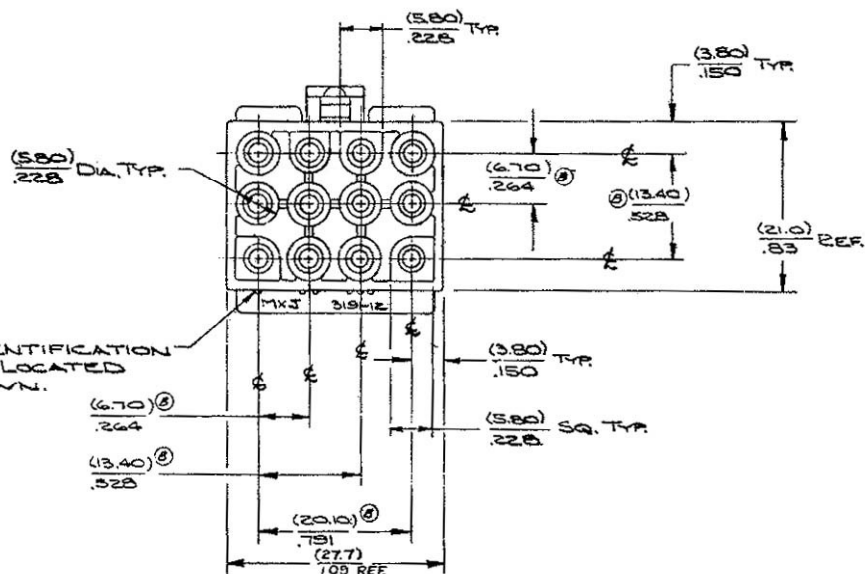
	INCH	METRIC
3 PLACE	± .010	---
2 PLACE	± .014	± 0.25
1 PLACE	---	± 0.35

DRAFT WHERE APPLICABLE MUST
REMAIN WITHIN DIMENSIONS

DRWG. BY: CEP CHKD. BY: RW
APP'D. BY: RAS SCALE: 2 : 1

REVISIONS
LTR. REVISIONS LTR. REVISIONS

TITLE .093/(2.36) HOUSING, PLUG AND RECEPTACLE, 9 CKT., .264/(6.70) CTRS.		SHEET NO. 2		DATE 8/ 2/ 89	
PART NO. SD-3191-9		DRAWING NO. SD-3191-9		REV. CP	
FILE NAME 531919X2.DGN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		NO P.S.	

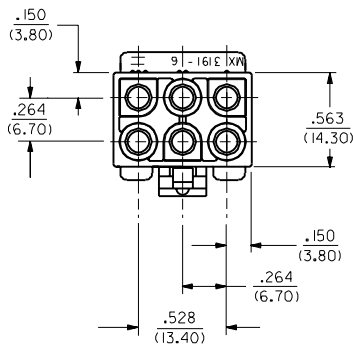
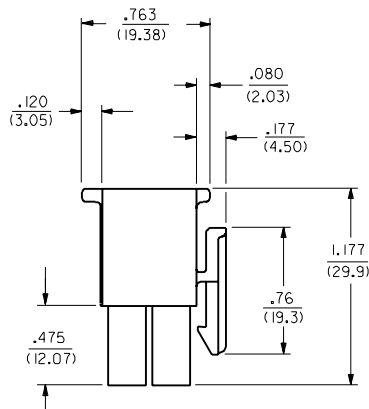
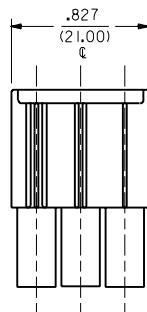
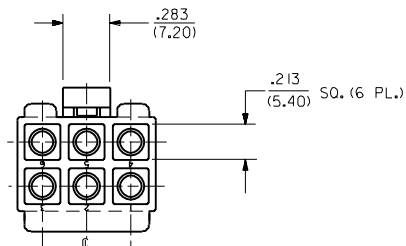


NOTE:

THIS HOUSING FOR USE WITH MOLEX
(236) 1.093 DIA. FEMALE TERMINALS.

NOT TOOLED	SDX-3191-12R1-D	NYLON 6/6 94U-2 COLOR NATURAL. (-D INDICATES DYED)
19-09-3121	SD-3191-12R1-203	ASAHI CEONA FR-200
NOT TOOLED	SDX-3191-12R1-202	MOD. NYLON 6/6 94U-0 DUPONT FE-301G
NOT TOOLED	SDX-3191-12R1-200	MOD. NYLON 6/6, 94U-0, MOUNSANTO M340
19-09-1126	SD-3191-12R1-201	MOD. NYLON 6/6, 94U-0, WIELAMID FR22-PA
19-09-1129	SD-3191-12R1	NYLON 6/6, 94U-2
PART NO.	ENG. NO.	MATERIAL

[illegible]



RECEPTACLE

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED
TOLERANCES ANGULAR ± .0010

	INCH	METRIC
3 PLACE	± .010	± 0.25
2 PLACE	± .014	± 0.36
1 PLACE	---	---

DRAFT WHERE APPLICABLE MUST
REMAIN WITHIN DIMENSIONS

DRWG. BY JJS CHKD. BY RW
APP'D. RAS SCALE 2:1

REVISIONS

REV.	DESCRIPTION	DATE
1	SEE SHT 1	1/22/88

LTR. REVISIONS LTR. REVISIONS

FILE NAME: SD-3191-6 SIZE: C

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

I3		I2		I1		I0	
PLUG				RECEPTACLE			
PART NO.		ENG. NO.		PART NO.		ENG. NO.	
I9-09-2068		319I-6P		I9-09-1069		319I-6RI	
I9-09-2069		319I-6PI		I9-09-1066		319I-6RI-20I	
I9-09-2067		319I-6P-20I		I9-09-6060		319I-6IRID	
I9-09-2066		319I-6PI-20I		I9-09-6069		319I-6RIBK	
I9-09-7069		319I-6PRD					
I9-09-7068		319I-6PBK					

LEGEND:

3191-6****-

CIRCUIT SIZE $\rightarrow$

P = PLUG

R = RECEPTACLE

EARS: BLANK = WITH PREBENT EARS
(PLUG ONLY)

I = WITHOUT EARS

COLOR: BLANK = NATURAL COLOR

AM=AMBER BK=BLACK BU=BLUE

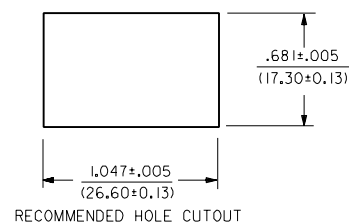
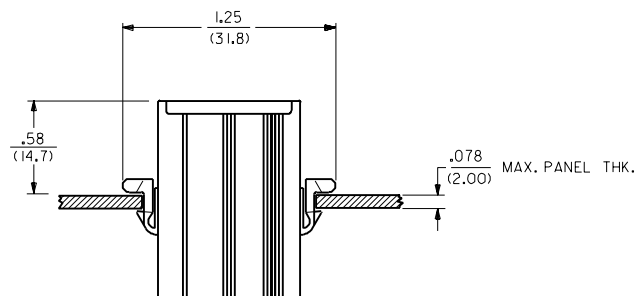
BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW

COLORS AVAILABLE ONLY IN 94V-2 MATERIAL

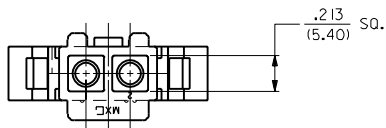
MATERIAL: BLANK=NYLON TYPE 6/6, 94V-2

201=NYLON TYPE 6/6, 94V-0

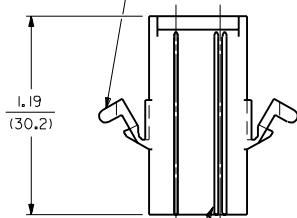


MOUNTING HOLE DETAIL

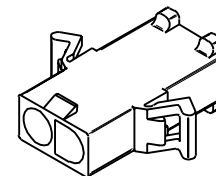
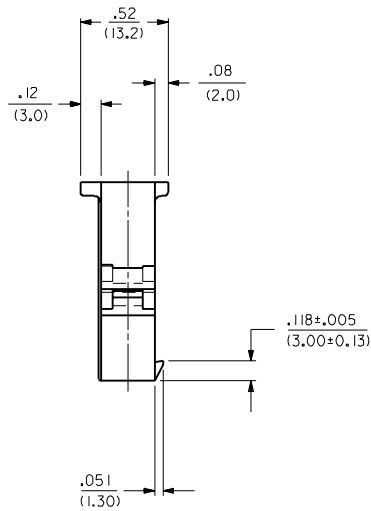
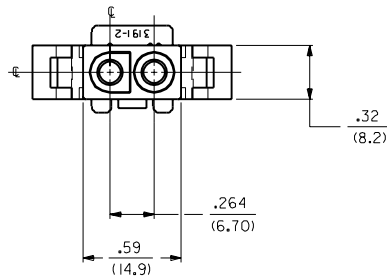
				DIMENSIONS SHOWN METRIC INCH	$\nabla =$	$\blacktriangledown =$	REVISE ONLY ON CAD SYSTEM		
				UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR $\pm .06^\circ$	TITLE				
				INCH METRIC	.093/(2.36) HOUSINGS				
				3 PLACE $\pm .010$	PLUG AND RECEPTACLE				
		M	L SEE SHEET I	2 PLACE $\pm .014 \pm 0.25$	6 CKT., 264(6.70) CTRS.				
		L	SEE SHT. I	1 PLACE $--- \pm 0.36$	MOLEX INCORPORATED				
		K	SEE SHT. I	DRAFT - WHEN APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SHEET NO. 155(Lt.Lt.)	60532	U.S.A.	DATE 3	1/22/88
		J	SEE SHT. I	DRW. BY JAS	CHKD. BY RW				
		LTR.	REVISIONS	SCALE 1"=1"	PART NO. SEE CHART	SD-3919I-B			
		JTR.	REVISIONS	FILE NAME 5319(I)C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED OR DISCLOSED BY ANY PERSON WITHOUT THE WRITTEN PERMISSION OF MOLEX INC.				
					CHECKED BY	BY: _____			
					DATE	DATE			



PREBENT MOUNTING EAR
(WHEN SPECIFIED)



CIRCUIT NUMBER
IDENTIFICATION RIBS



PLUG

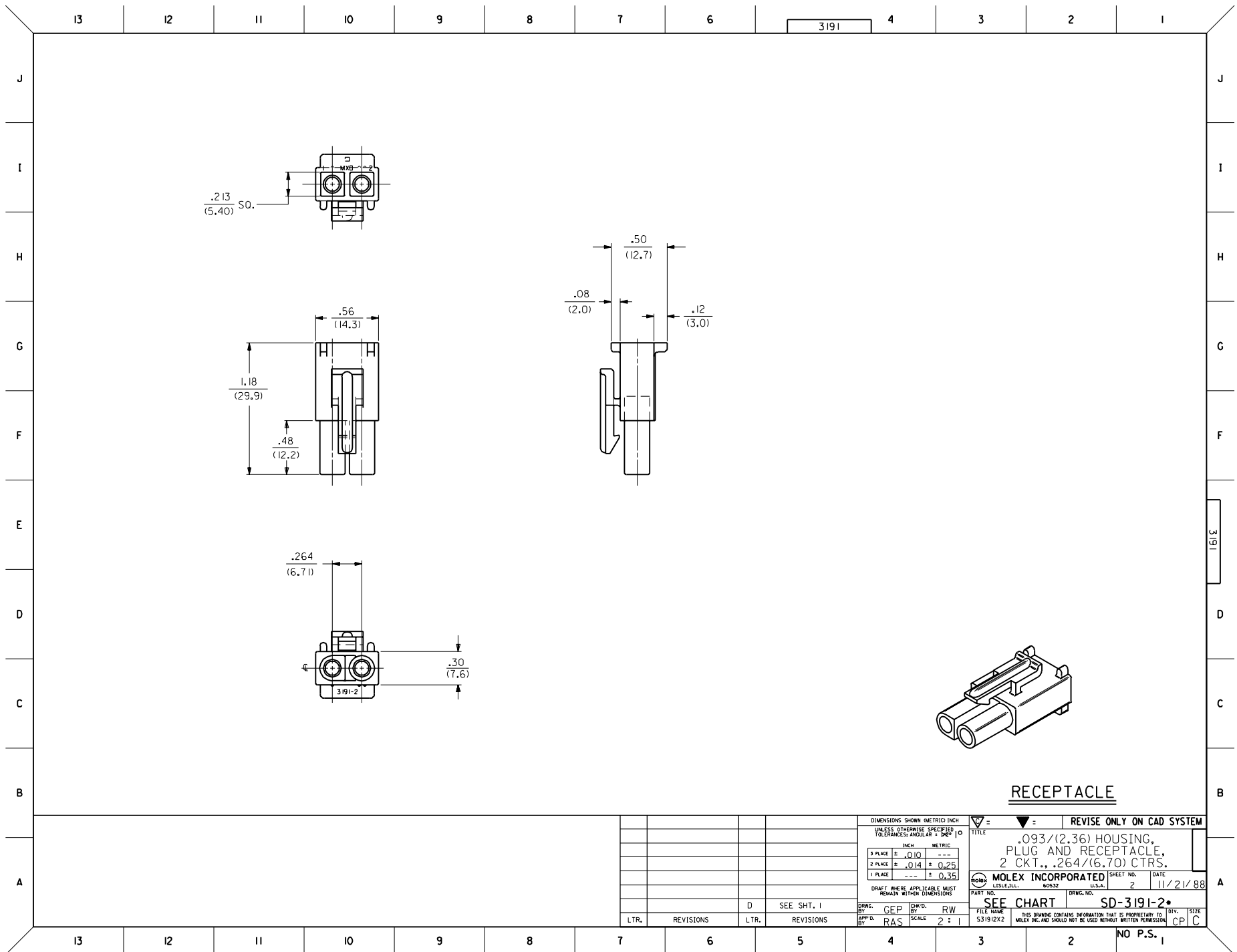
DIMENSIONS SHOWN (METRIC) INCH		TITLE	
UNLESS OTHERWISE SPECIFIED: TOLERANCES: ANGULAR ± .004 TO		.093/(2.36) HOUSING, PLUG AND RECEPTACLE, 2 CKT ±.264/(6.70) CTRS.	
INCH METRIC		SEE CHART	
3 PLACE ± .010	---	SHEET NO. DATE	
2 PLACE ± .014	± 0.25	1 of 3 11/21/88	
1 PLACE ---	± 0.35	MOLEX INCORPORATED	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		LITSEJLL 60532 U.S.A.	
DRWG. BY CEP	CHKD. BY RW	PART NO. SD-3191-2	
APP'D. BY RAS	SCALE 2 : 1	FILE NAME 531912X1.DGN	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		DIV. CP	

E4	REVISED UCR1998-0148 WANG 98-04-15		
E3	ADD RAMP DIM'S ECN #U4 0293 3-1-94 RW		
E2	X-REMOVE ECR U3 0001 OC 12/30/92 RW		
E1	REL. RED VERSIONS ECR U1 2167 OC 1/24/92 RW		
E	REV. MATL. CODE ECR # U90901 KBW 07-25-89 RW		
D	REV. & REDRAWN ECR UB 1858 GEP 11-21-88 RW		
3	E2		
2	D		
1	E4		
SH.	REV.	LTR.	REVISIONS



REVISE ONLY ON CAD SYSTEM

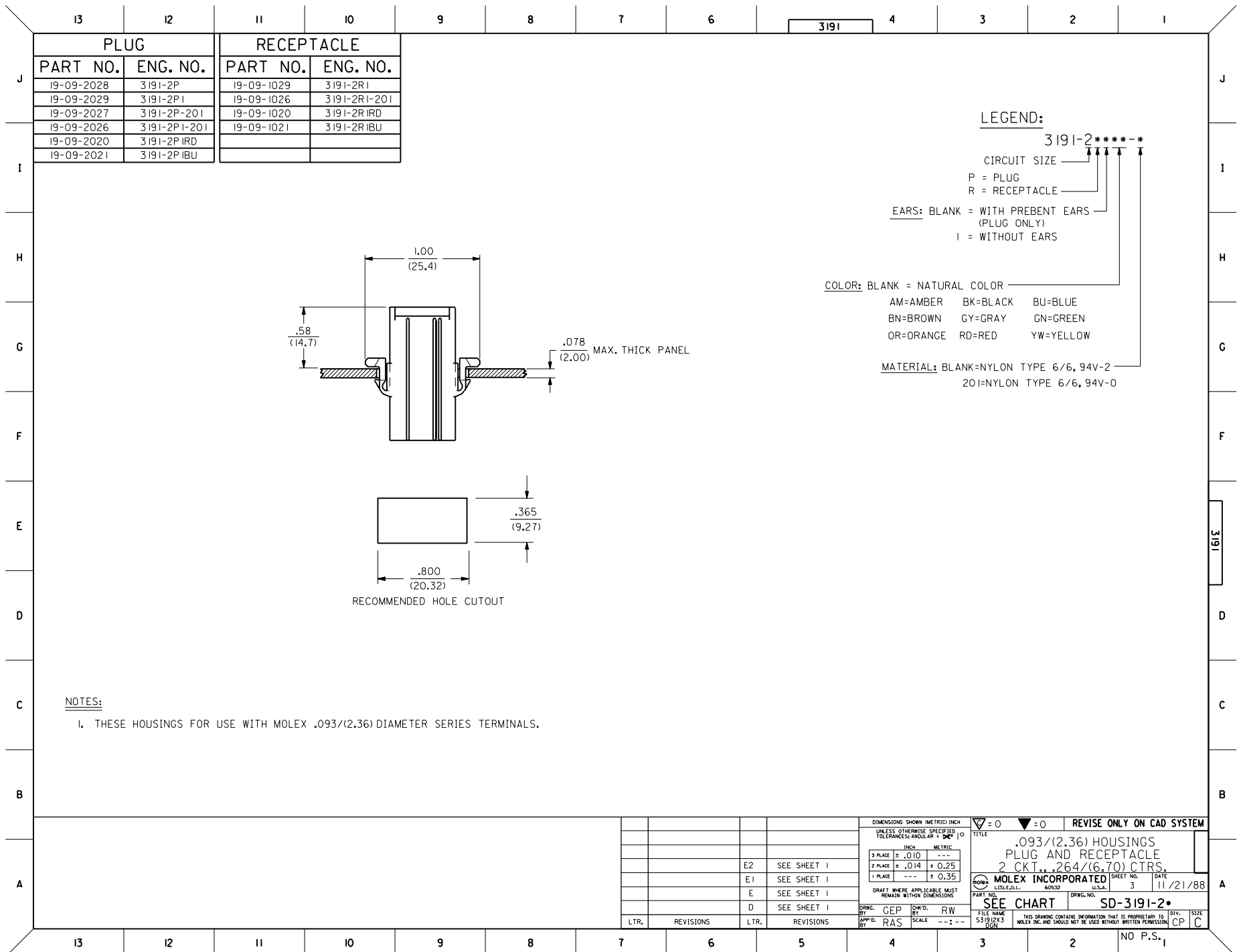
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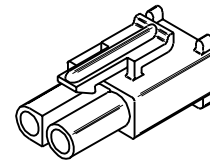
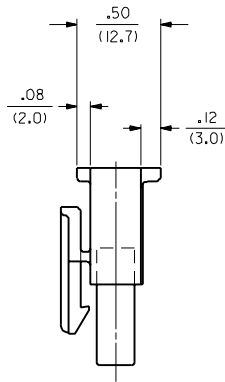
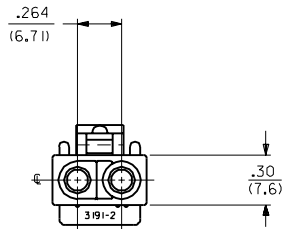
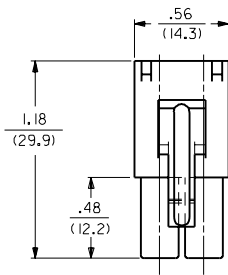
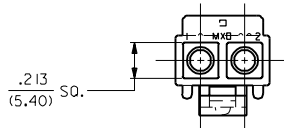


DIMENSIONS SHOWN (METRIC) INCH		UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR .001" .001"	
3 PLACE	± .010	---	---
2 PLACE	± .014	± 0.25	---
1 PLACE	---	± 0.35	---
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
DRWG. BY	GEP	CHK'D. BY	RW
APP'D. BY	RAS	SCALE	2 : 1

LTR.		REVISIONS	LTR.	REVISIONS
		D	SEE SHT. 1	

MOLEX INCORPORATED		SHEET NO.		DATE	
LITLLE, ILL.		60532		11/21/88	
SEE CHART		SD-3191-2		CPIC	
FILE NAME		531912X2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	





RECEPTACLE

DIMENSIONS SHOWN (METRIC) INCH

UNLESS OTHERWISE SPECIFIED
TOLERANCES: ANGULAR ± .005° TO

	INCH	METRIC
3 PLACE	± .010	---
2 PLACE	± .014	± 0.25
1 PLACE	---	± 0.35

DRAFT WHERE APPLICABLE MUST
REMAIN WITHIN DIMENSIONS

DRWG. BY: GEP
APP'D. BY: RAS

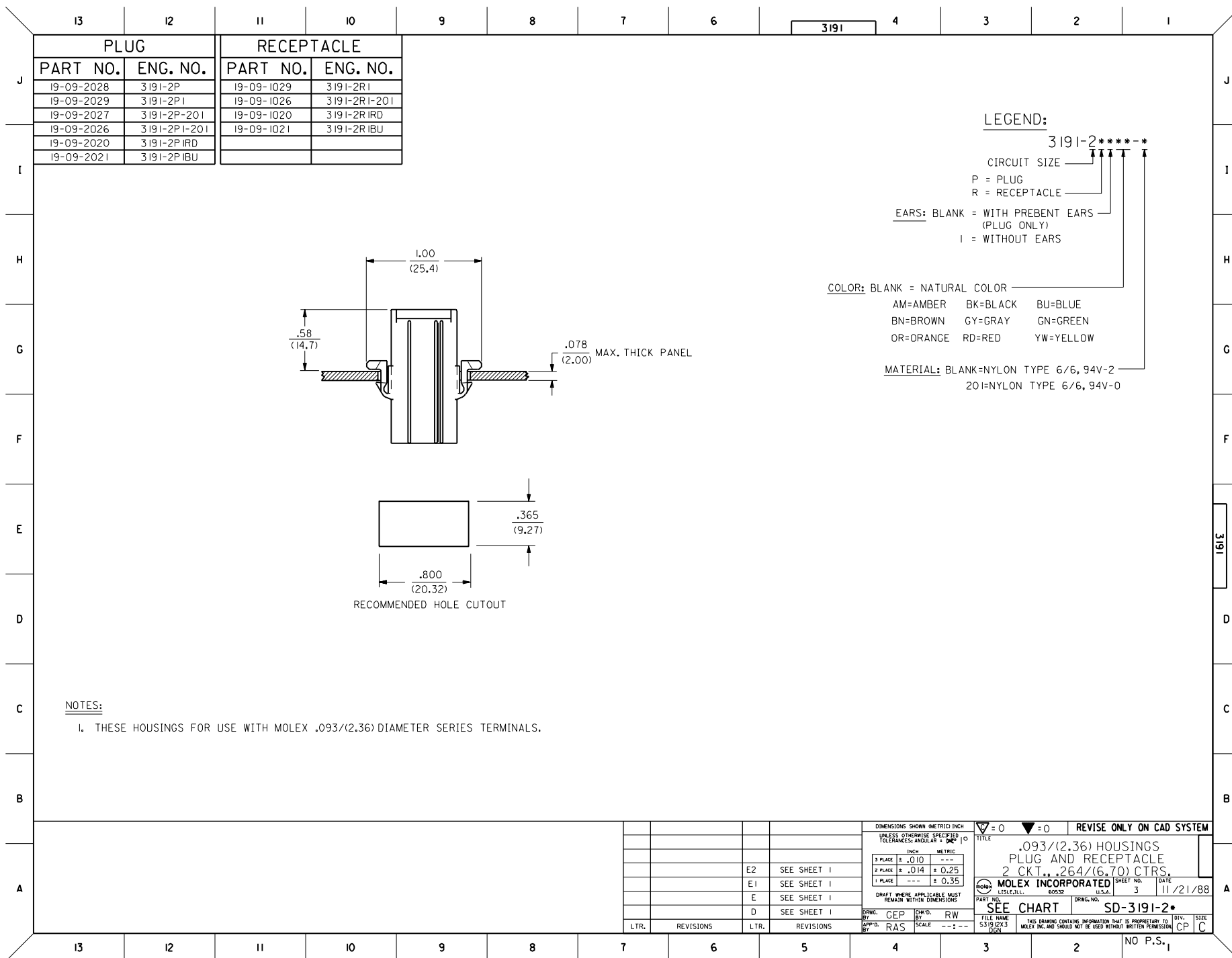
CHK'D. BY: RW
SCALE: 2 : 1

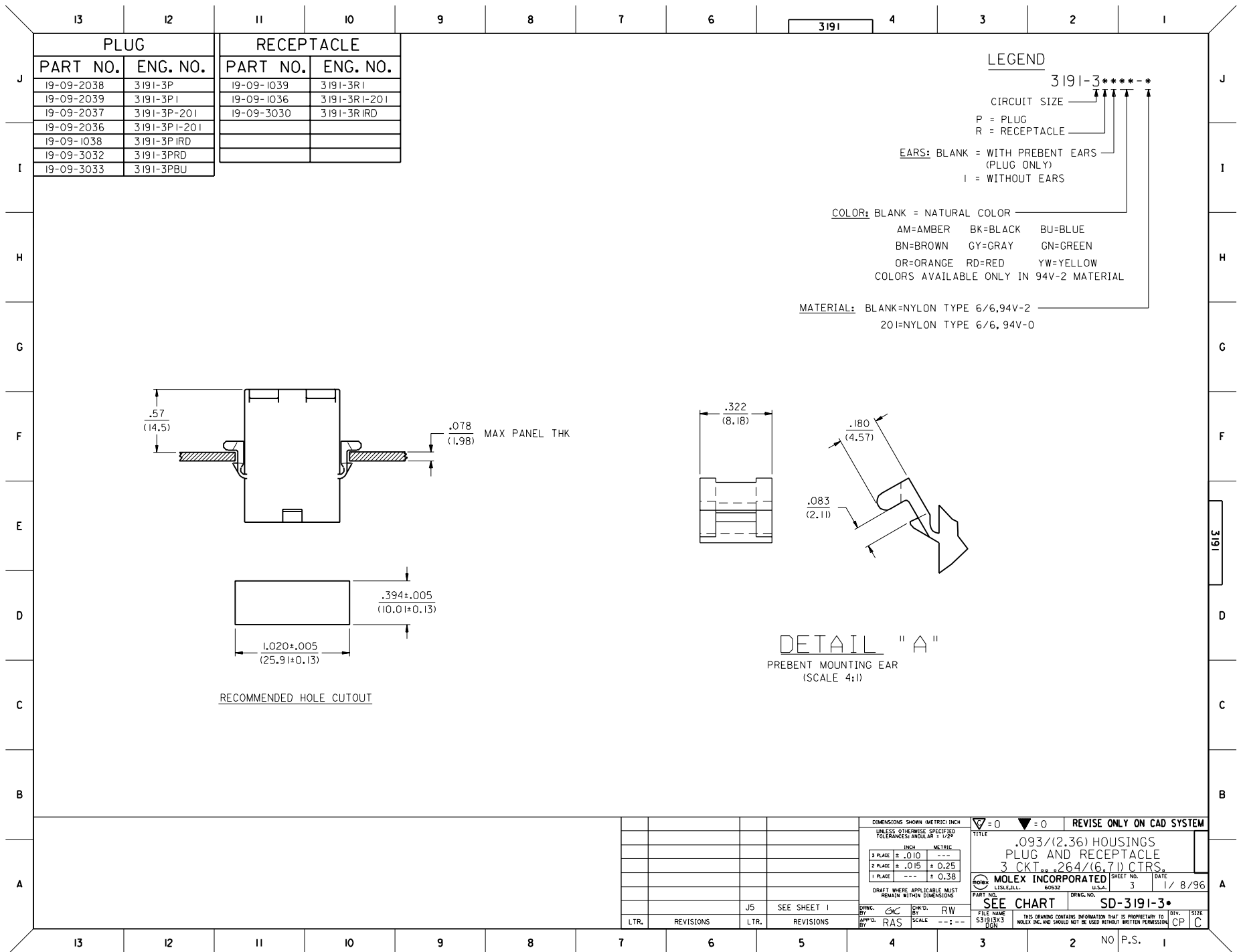
REVISIONS

1	SEE SHT. 1		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

NO P.S. 1

NO P.S. 1





PLUG		RECEPTACLE	
PART NO.	ENG. NO.	PART NO.	ENG. NO.
I9-09-2038	3191-3P	I9-09-1039	3191-3R1
I9-09-2039	3191-3P1	I9-09-1036	3191-3R1-201
I9-09-2037	3191-3P-201	I9-09-3030	3191-3R1RD
I9-09-2036	3191-3P1-201		
I9-09-1038	3191-3P1RD		
I9-09-3032	3191-3PRD		
I9-09-3033	3191-3PBU		

LEGEND

3191-3****-*

CIRCUIT SIZE

P = PLUG

R = RECEPTACLE

EARS: BLANK = WITH PREBENT EARS (PLUG ONLY)

I = WITHOUT EARS

COLOR: BLANK = NATURAL COLOR

AM=AMBER BK=BLACK BU=BLUE

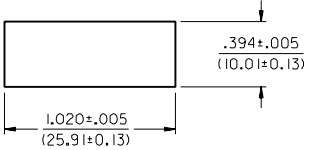
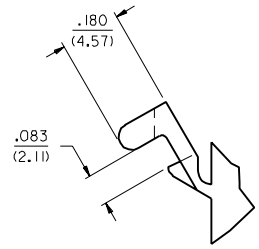
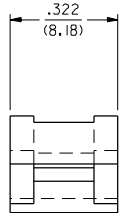
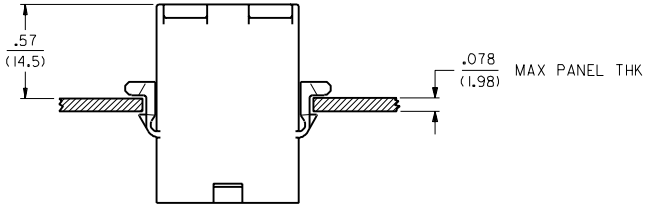
BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW

COLORS AVAILABLE ONLY IN 94V-2 MATERIAL

MATERIAL: BLANK=NYLON TYPE 6/6,94V-2

201=NYLON TYPE 6/6, 94V-0



DETAIL "A"

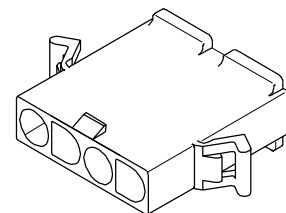
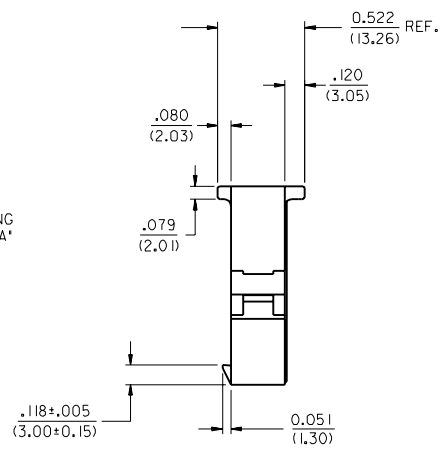
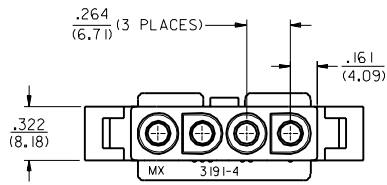
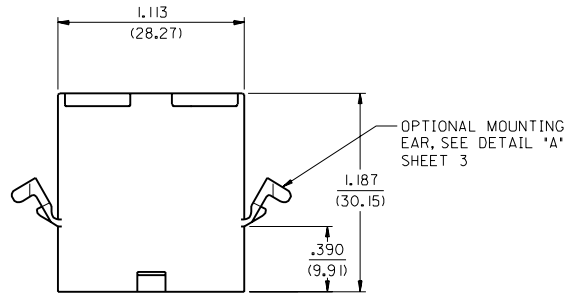
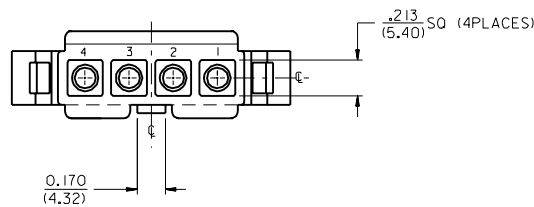
PREBENT MOUNTING EAR

(SCALE 4:1)

RECOMMENDED HOLE CUTOUT

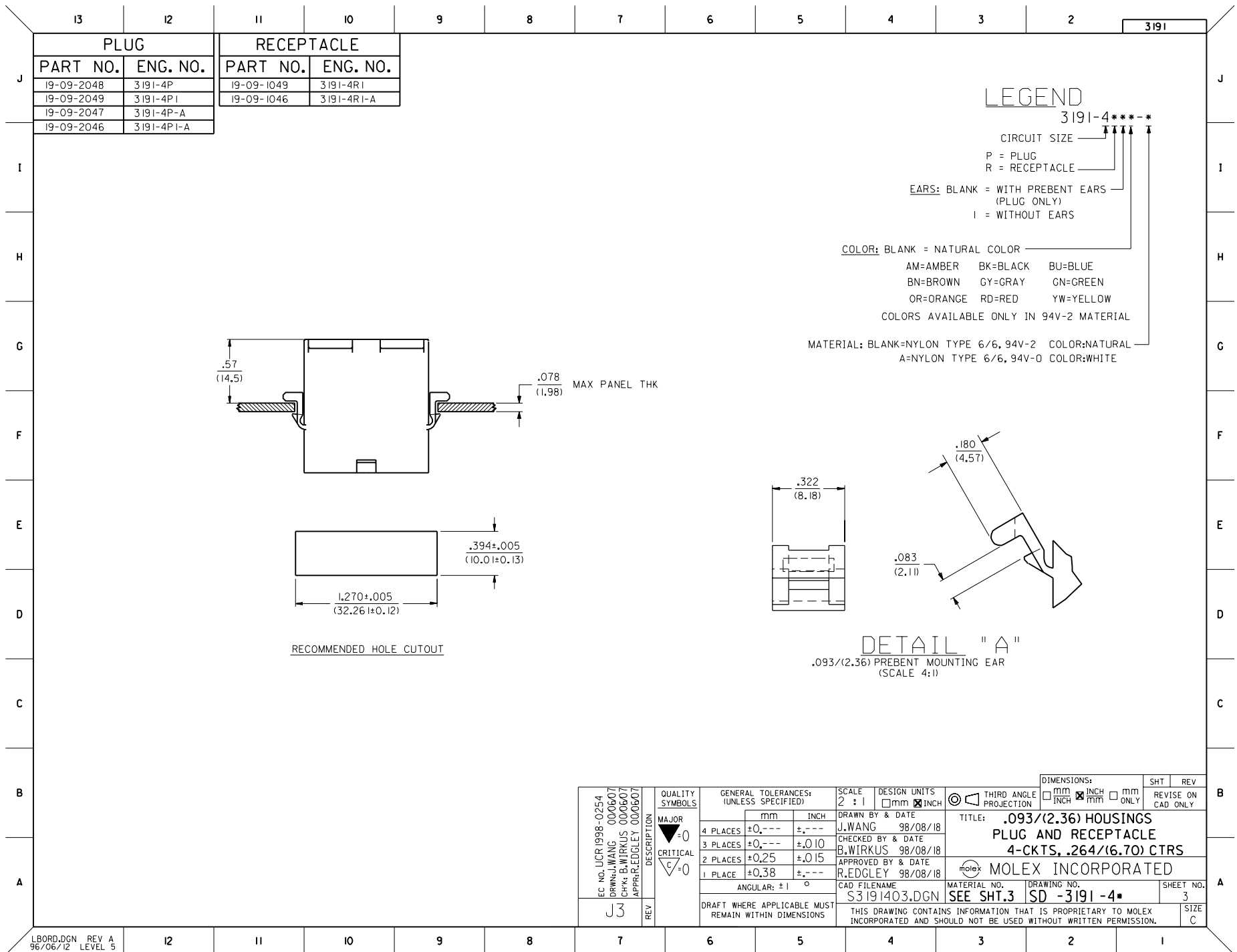
					DIMENSIONS SHOWN (METRIC) INCH		▽=0	▼=0	REVISE ONLY ON CAD SYSTEM			
					UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°		TITLE					
					INCH		METRIC					
					3 PLACE	± .010	---	.093/(2.36) HOUSINGS				
					2 PLACE	± .015	± 0.25	PLUG AND RECEPTACLE				
					1 PLACE	---	± 0.38	3 CKT ±.264/(6.71) CTRS.				
					DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
					DRWG. BY	RAS	CHKD. BY	RW	PART NO.			
					APP'D. BY	RAS	SCALE	--:--	SEE CHART			
					LTR.		REVISIONS		DRWG. NO.			
					LTR.		REVISIONS		SD-3191-3*			
					LTR.		REVISIONS		DIV.			
					LTR.		REVISIONS		CP			

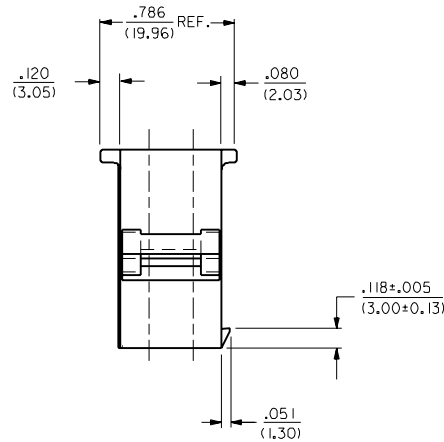
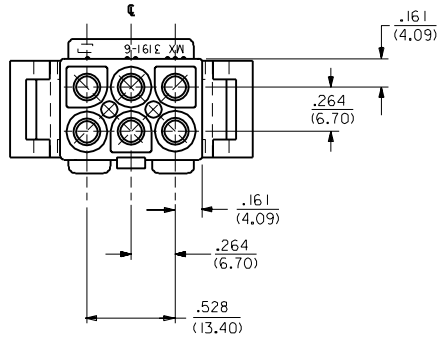
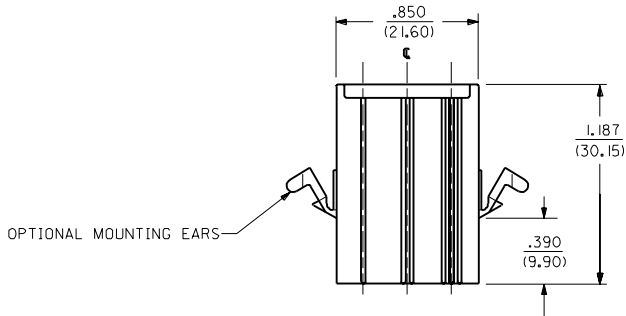
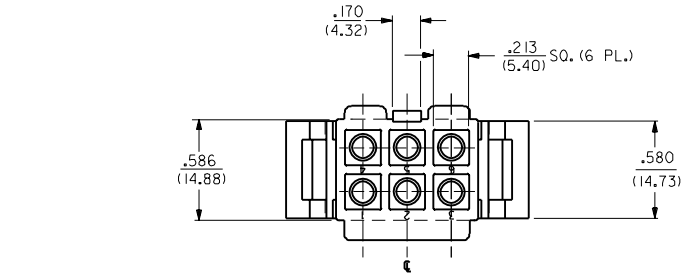
1312111098765432NO P.S.1



PLUG HOUSING

REDRAWN ON CAD EC NO. UCR1998-0254 DRW: J. WANG 000607 CHK: WIRKUS 000607 APPR: R. EDGLEY 000607	QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES: (UNLESS SPECIFIED)		SCALE 2 : 1	DESIGN UNITS ☐ mm ☒ INCH	THIRD ANGLE PROJECTION	DIMENSIONS: ☐ mm ☒ INCH ☐ mm ONLY		SHT	REV
		4 PLACES	±0,---	±,---	DRAWN BY & DATE J. WANG 98/08/24	TITLE: .093/(2.36) HOUSINGS PLUG AND RECEPTACLE				
		3 PLACES	±0,---	±.010	CHECKED BY & DATE WIRKUS 98/08/24	4-CKTS, .264/(6.70) CTRS				
		2 PLACES	±0,25	±.015	APPROVED BY & DATE R. EDGLEY 98/08/24	MOLEX INCORPORATED				
		1 PLACE	±0,38	±,---	CAD FILENAME S3191401.DGN	MATERIAL NO. SEE SHT. 3	DRAWING NO. SD -3191 -4	SHEET NO. 1 OF 3		
J3	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.						

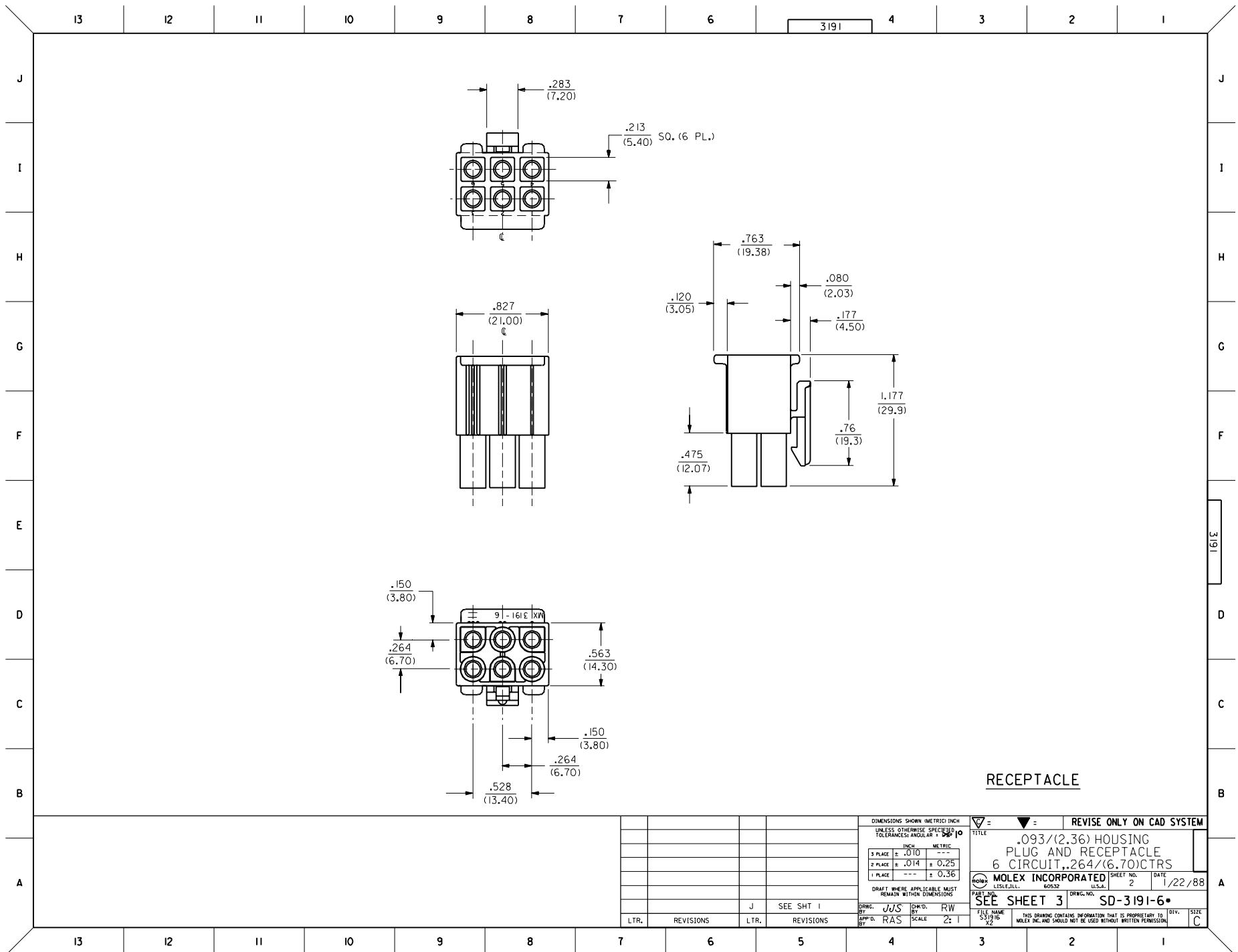




PLUG

			M	I	ADD RAMP LENGTH ECN # U4 0293 3-1-94 RW
				M	REVISED PER ECR # U90659 KBW 07-25-89 RW
				L	ADDED STANDOFFS PER ECR UB 2271 GEP 11-30-88 RW
M	3	M		K	REV. & FINAL REL. ECR UB 1710 GEP 7-14-88 RW
J	2	J		J	REVISED & REDRAWN PER ECR UB 0122 2-2-88 SCHAFER
M	1	M			
MFG.	SH.	REV.	LTR.	REVISIONS	

DIMENSIONS SHOWN (METRIC) INCH		▽ = 0 ▼ = 0		REVISE ONLY ON CAD SYSTEM	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± .001°		TITLE		.093/(2.36) HOUSING PLUG AND RECEPTACLE 6 CKT., .264/(6.70) CTRS.	
INCH METRIC		PART NO.		SHEET NO. DATE	
3 PLACE ± .010 ---		MOLEX INCORPORATED		1 OF 3 1/25/88	
2 PLACE ± .014 ± 0.25		LITSE,ILL. 60532 U.S.A.		DRWG. NO.	
1 PLACE --- ± 0.36		SD-3191-6•		SFE CHART	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		FILE NAME		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
DRWG. BY JJS		SCALE 2 : 1		CP C	
APP'D. BY RAS		SCALE 2 : 1		CP C	



DIMENSIONS SHOWN (METRIC) INCH

UNLESS OTHERWISE SPECIFIED

TOLERANCES ANGULAR .010

INCH METRIC

3 PLACE ± .010 ---

2 PLACE ± .014 ± 0.25

1 PLACE --- ± 0.36

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRWG. BY JUS

APP'D. BY RAS

SCALE 2:1

DATE 1/22/88

REVISE ONLY ON CAD SYSTEM

TITLE

.093/(2.36) HOUSING

PLUG AND RECEPTACLE

6 CIRCUIT, .264/(6.70) CTRS

PART NO. MOLEX INCORPORATED

SEE SHEET 3

DRWG. NO. SD-3191-6

FILE NAME 531916

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

DATE 1/22/88

SIZE C

