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Jameco Part Number 743200

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

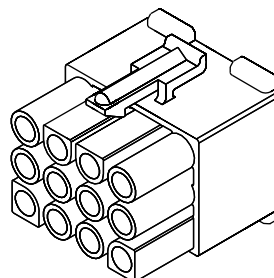
Housing: Nylon, UL 94V-0 or 94V-2
 Operating Temperature: -40 to +105°C

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



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

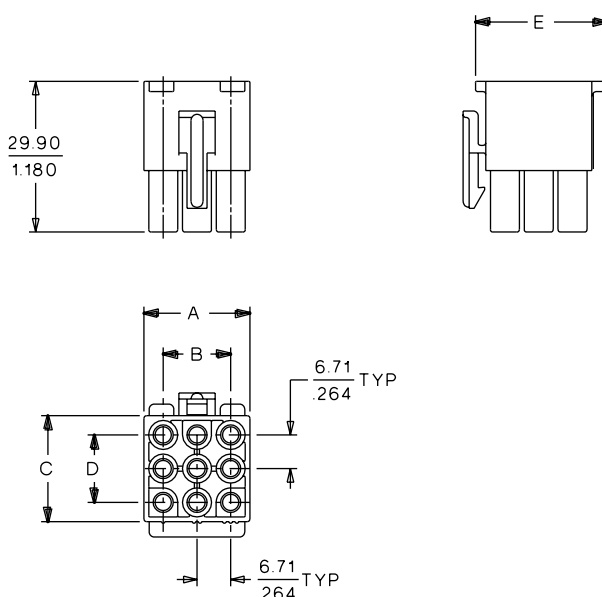
3191



Power Connectors

F

CATALOG DRAWING (FOR REFERENCE ONLY)

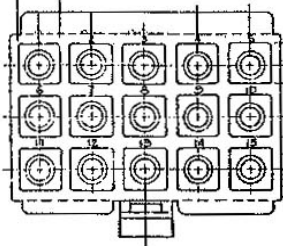


ORDERING INFORMATION AND DIMENSIONS

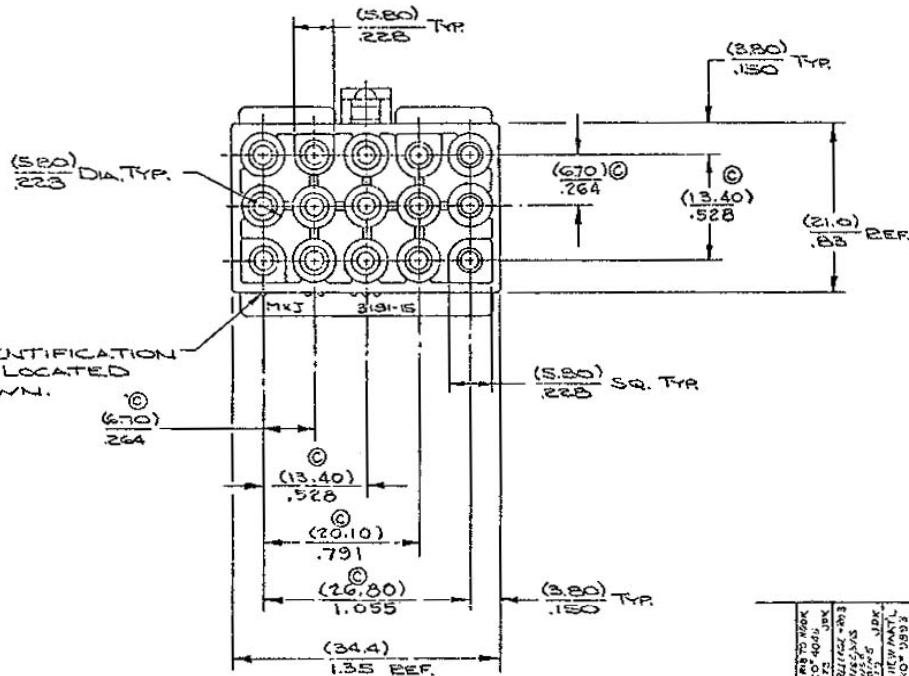
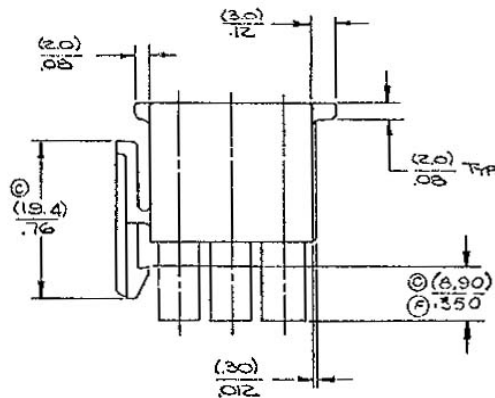
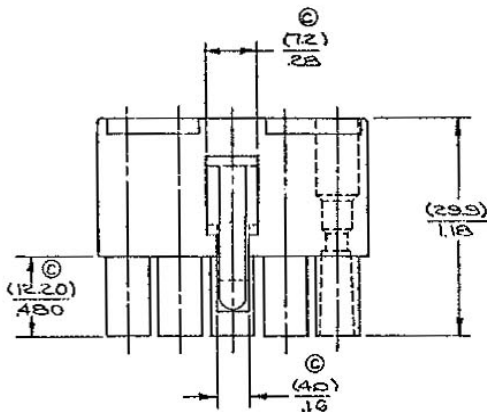
Circuits	Order No.		Amperes per Circuit	Dimension				
	94V-2	94V-0		A	B	C	D	E
1	• 19-09-1019	• 19-09-1016	12	7.60 (.300)		7.60 (.300)		10.62 (.418)
2	• 19-09-1029	• 19-09-1026	12	14.30 (.560)	6.71 (.264)	7.60 (.300)		12.70 (.500)
3	• 19-09-1039	• 19-09-1036	11	21.00 (.830)	13.42 (.528)	7.60 (.300)		12.70 (.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.

(6.70)
.264

(13.40)
.528

(20.10)
.791

(26.80)
1.055

(34.4)
1.35 REF.

(3.80)
.150 TYP

(5.80)
.228 SQ. TYP

(3.80)
.150 TYP

(6.70)
.264

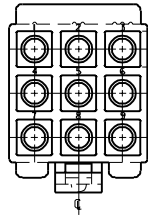
(13.40)
.528

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 WELAMID FR22-FW
19-09-1159	SD-3191-15R1	NYLON TYPE 6/6 94V-O
PART NO.		ENG. NO.
REVISIONS		TITLE
1	WEL	HOUSING - RECEPTACLE, 15 CRT. (UNIVERSAL)
2	WEL	MOLEX INCORPORATED
3	WEL	DATE 10/28/75
4	WEL	19-09-1156
5	WEL	SD-3191-15R1-1/C
6	WEL	2X
7	WEL	
8	WEL	
9	WEL	
10	WEL	
11	WEL	
12	WEL	
13	WEL	

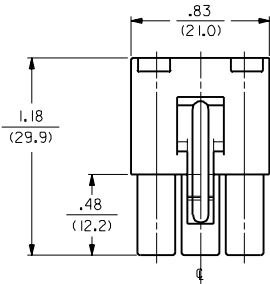
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NOT TOOLED	SD-3191-15R1-202	MOD. NYLON 6/6 94V-C DUPONT FE-3016
NOT TOOLED	SD-3191-15R1-200	MOD. NYLON 6/6 94V-O MONSANTO M340
19-09-1156	SD-3111-15R1-201	MOD. NYLON 6/6 94V-O WELAMID FR22-FW
19-09-1159	SD-3191-15R1	NYLON TYPE 6/6 94V-O
PART NO.		ENG. NO.
REVISIONS		TITLE
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2	WEL	MOLEX INCORPORATED
3	WEL	DATE 10/28/75
4	WEL	19-09-1156
5	WEL	SD-3191-15R1-1/C
6	WEL	2X
7	WEL	
8	WEL	
9	WEL	
10	WEL	
11	WEL	
12	WEL	
13	WEL	

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
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19-09-1159	SD-3191-15R1	NYLON TYPE 6/6 94V-O
PART NO.		ENG. NO.
REVISIONS		TITLE
1	WEL	HOUSING - RECEPTACLE, 15 CRT. (UNIVERSAL)
2	WEL	MOLEX INCORPORATED
3	WEL	DATE 10/28/75
4	WEL	19-09-1156
5	WEL	SD-3191-15R1-1/C
6	WEL	2X
7	WEL	
8	WEL	
9	WEL	
10	WEL	
11	WEL	
12	WEL	
13	WEL	

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



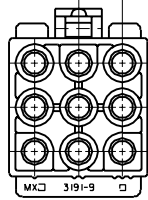
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(5.40) S.O.



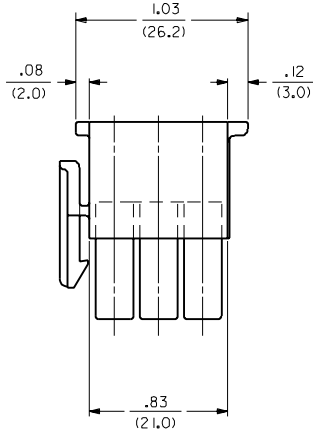
1.18
(29.9)

.48
(12.2)

.264
(6.71) TYP.



.264
(6.71) TYP.

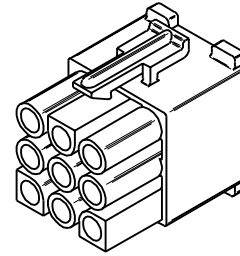


1.03
(26.2)

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

PART NO. SEE CHART		DRWG. NO. SD-3191-9•	
FILE NAME 531919X2.DGN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
MOLEX INCORPORATED		SHEET NO. 2	
LITTLE ROCK, AR 60532 U.S.A.		DATE 8/ 2/ 89	

LTR.		REVISIONS	
J		SEE SHT. 1	
LTR.		REVISIONS	

13	12	11	10	9	8	7	6	3191	4	3	2	1
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PLUG		RECEPTACLE	
PART NO.	ENG. NO.	PART NO.	ENG. NO.
19-09-2098	3191-9P	19-09-1099	3191-9R1
19-09-2099	3191-9P1	19-09-1096	3191-9R1-201
19-09-2097	3191-9P-201		
19-09-2096	3191-9P1-201		

LEGEND:

3191-9****-*

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

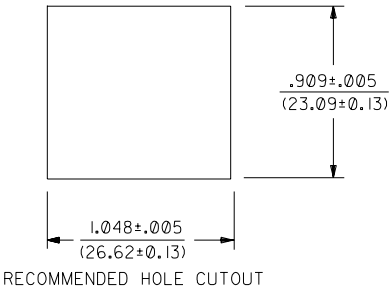
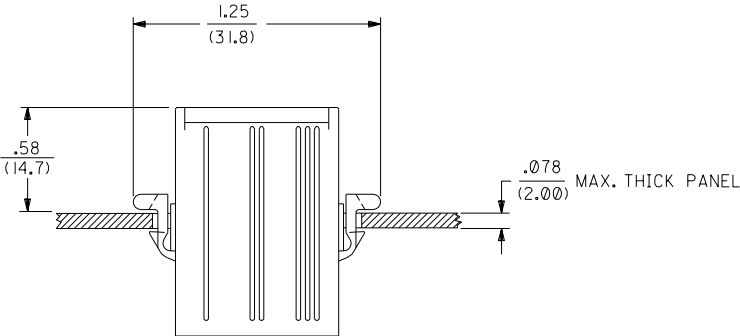
BN=BROWN GY=GRAY GN=GREEN

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

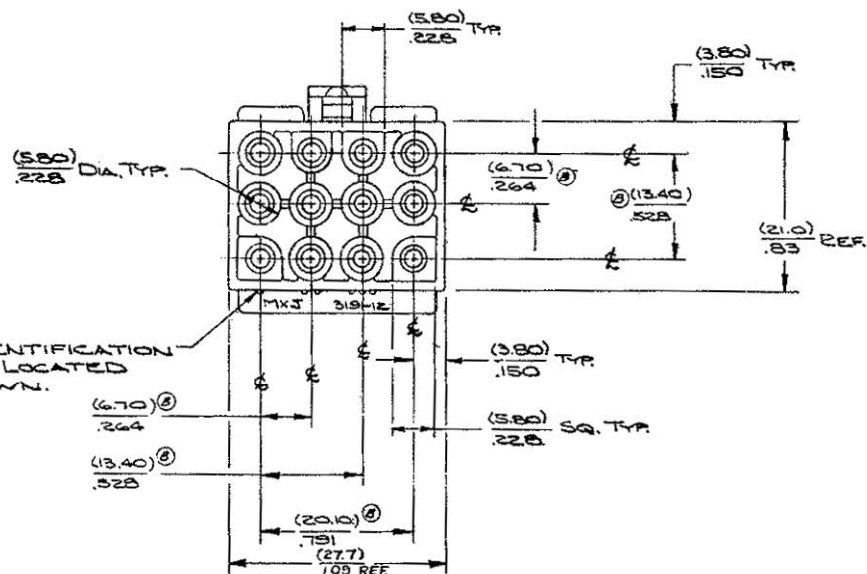


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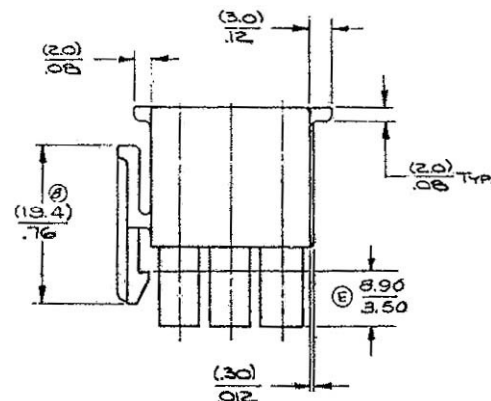
1. THESE HOUSINGS FOR USE WITH MOLEX .093/(2.36) DIAMETER SERIES TERMINALS.

DIMENSIONS SHOWN (METRIC) INCH				▽ =		▼ =		REVISE ONLY ON CAD SYSTEM			
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm$ DR° 10				TITLE		.093/(2.36) HOUSINGS PLUG AND RECEPTACLE 9 CKT. $\pm$.264/(6.70) CTRS.		PART NO.		DRWG. NO.	
INCH METRIC				3 PLACE $\pm$.010 ---		MOLEX INCORPORATED		SHEET NO.		DATE	
2 PLACE $\pm$.014 $\pm$ 0.25				1 PLACE --- $\pm$ 0.35		L1SLE,ILL. 60532 U.S.A.		3		8/ 2/89	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE CHART		SD-3191-9*		DIV.		SIZE	
DRWG. BY: CEP CHK'D. BY: RW				FILE NAME		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		CP		C	
APP'D. BY: RAS SCALE: --:--				LTR.		REVISIONS		LTR.		REVISIONS	
J SEE SHT. 1				NO P.S.		1					

13	12	11	10	9	8	7	6	5	4	3	2	1
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SIDE IDENTIFICATION
BEADS LOCATED
AS SHOWN:

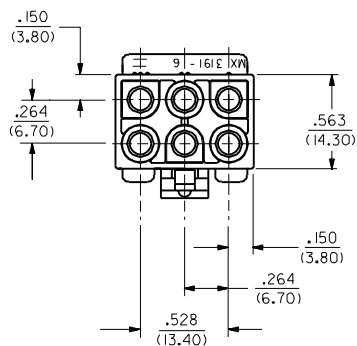
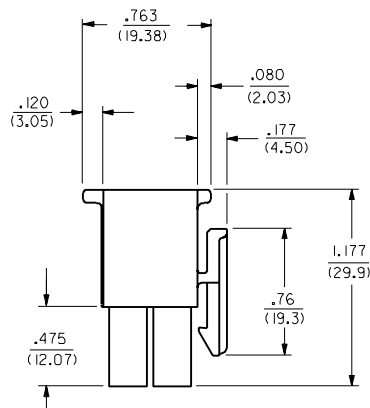
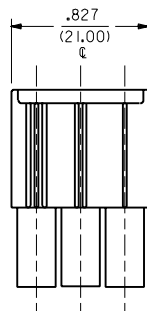
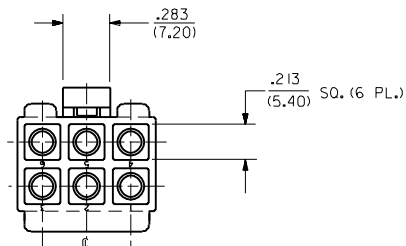


NOTE:

THIS HOUSING FOR USE WITH MOLEX
(236)/.093 DIA. FEMALE TERMINALS.

NOT TOOLED	SDX-3191-12R1-D	NYLON 6/6 34U-2 COLOR NATURAL (-D INDICATES DYE)
19-09-3121	SD-3191-12R1-203	ASAMI CEONA FE-200
NOT TOOLED	SDX-3191-12R1-202	MOD. NYLON 6/6 34U-0 DURAPART FE-801G
NOT TOOLED	SDX-3191-12R1-200	MOD. NYLON 6/6 34U-0, MOUNTAIN M340
19-09-1126	SD-3191-12R1-201	MOD. NYLON 6/6 34U-0, WELLMID FE22-PA
19-09-1123	SD-3191-12R1	NYLON 6/6 34U-2
PART NO.	ENG. NO.	MATERIAL

[illegible]



RECEPTACLE

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

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

DRAFT WHERE APPLICABLE MUST
REMAIN WITHIN DIMENSIONS

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

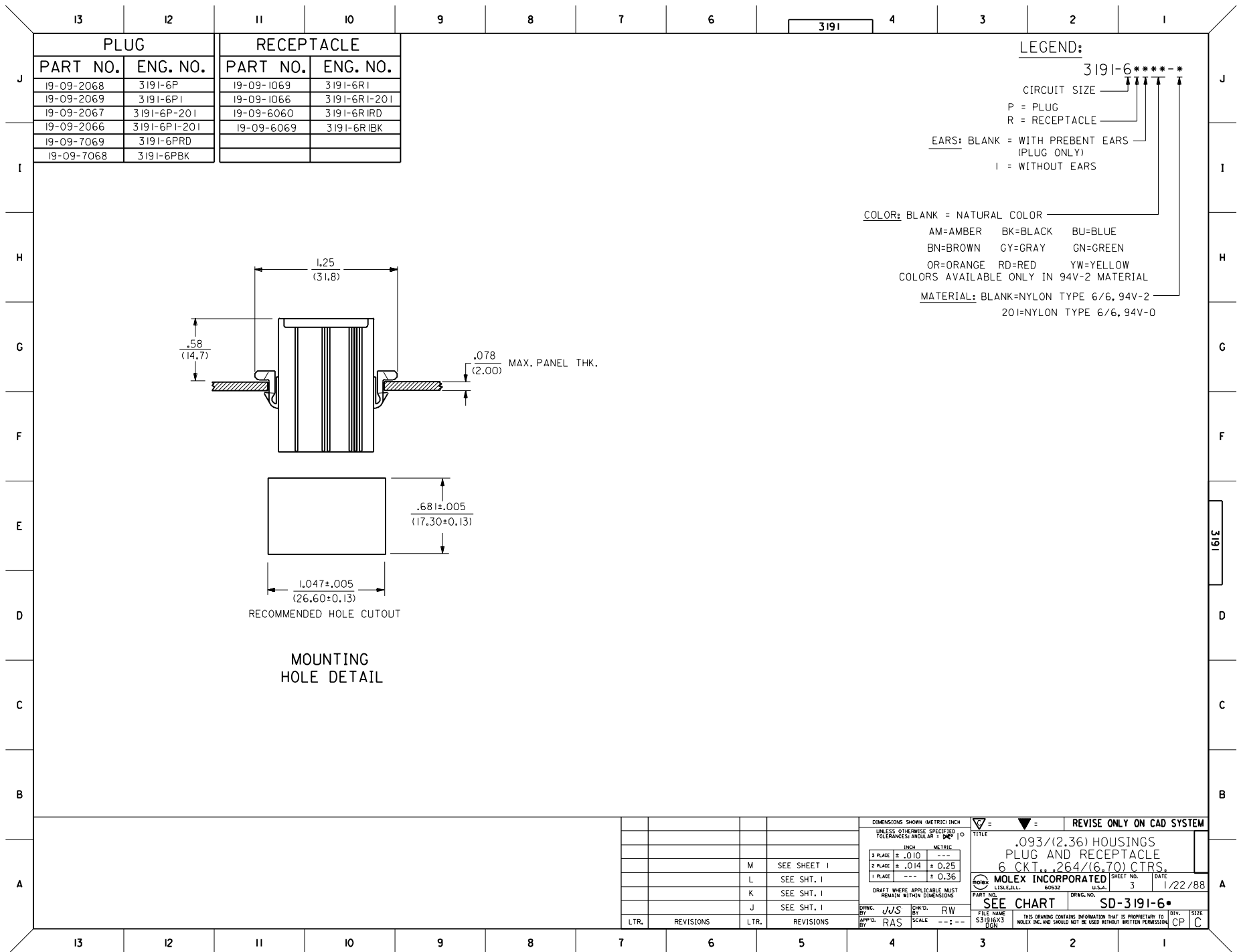
REVISIONS

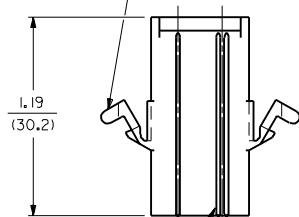
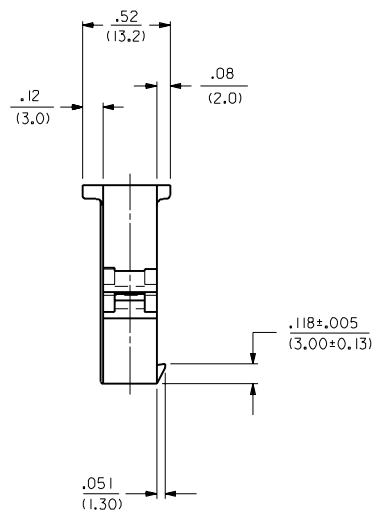
REV.	DESCRIPTION	DATE
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LTR. REVISIONS LTR. REVISIONS

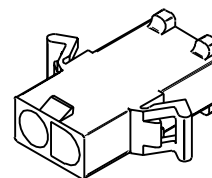
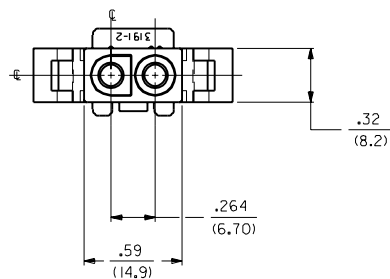
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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.





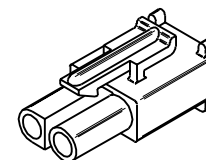
CIRCUIT NUMBER—
IDENTIFICATION RIBS



PLUG

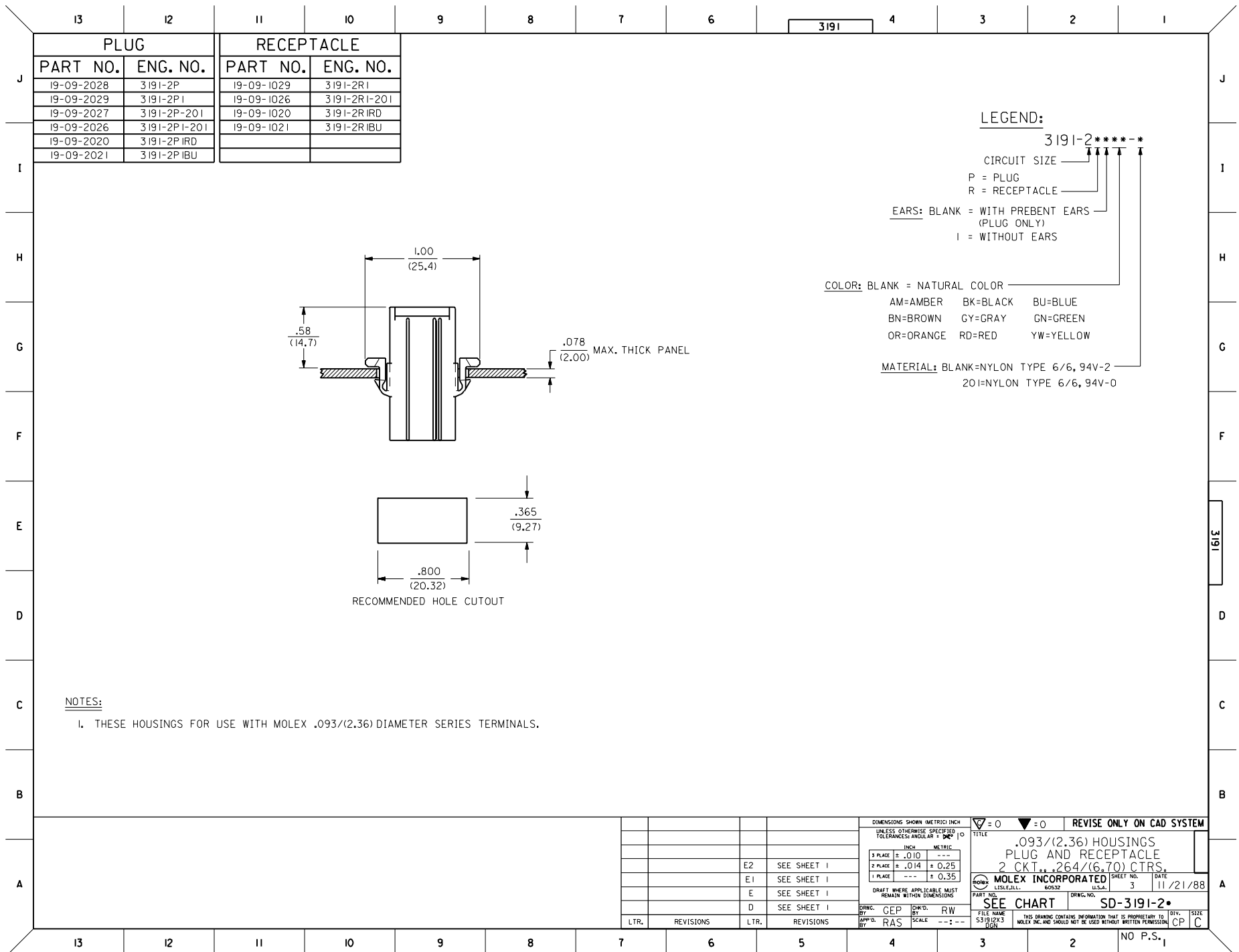
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		E3		ADD RAMP DIM'S ECN #04 U293 3-1-94 RW							
		E2		X-REMOVED ECR U3 6001 GC 12/30/92 RW							
		E1		REL. RED. VERSIONS ECR U12167 GC 1/24/92 RW							
		E		REV MATL CODE ECR # U90901 KBW 07-25-89 RW							
		D		REV. & REDRAWN ECR UB 1858 CEP 11-21-88 RW							
				REVISIONS							
<table><tr><td>3</td><td>E2</td></tr><tr><td>2</td><td>D</td></tr><tr><td>1</td><td>E4</td></tr></table>		3	E2	2	D	1	E4	SH.	REV.	LTR.	
3	E2										
2	D										
1	E4										
▽ = 0		REVISE ONLY ON CAD SYSTEM									
0.093/(2.36) HOUSING, PLUG AND RECEPTACLE, CTR. # 264(6.70) CTRS. AX INCORPORATED SHEET NO. DATE 600532 U.S.A. 1 of 3 11/21/88											
CHART		DRWG. NO.		SD-3191-2							
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO AXLEY INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIV. CP SIZE C											

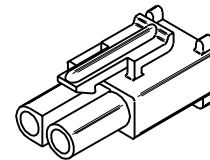
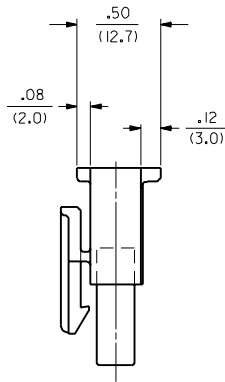
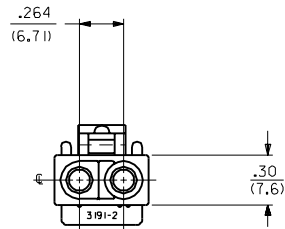
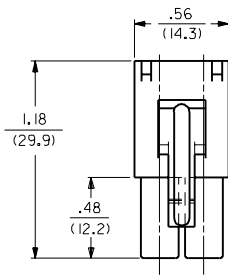
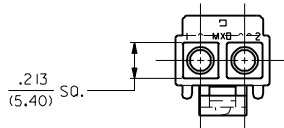
DIMENSIONS SHOWN METRIC INCH		$\nabla = 0$ $\nabla = 0$		REVISE ONLY ON CAD SYSTEM										
UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR & SURF.														
<table border="1"> <tr> <td>3 PLACE</td> <td>= .010</td> <td></td> </tr> <tr> <td>2 PLACE</td> <td>= .014</td> <td>+ .025</td> </tr> <tr> <td>1 PLACE</td> <td>= --</td> <td>+ .035</td> </tr> </table>		3 PLACE	= .010		2 PLACE	= .014	+ .025	1 PLACE	= --	+ .035				
3 PLACE	= .010													
2 PLACE	= .014	+ .025												
1 PLACE	= --	+ .035												
DRAFT: WHERE APPLICABLE, MUST REMAIN WITHIN DIMENSIONS														
LING. DTG. R/W APP'D BY SCALE 2 : 1		PART NO. SEE CHART DRG. NO. SD-3191-2- FILE NAME S3191 DIV. CP SIZE DON												



				DIMENSIONS SHOWN METRIC INCH UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR & DEG ± .01		▽ = ▼ = REVISE ONLY ON CAD SYSTEM																	
				<table><tr><th colspan="2">INCH</th><th colspan="2">METRIC</th></tr><tr><td>3 PLACE</td><td>= .010</td><td>---</td><td>---</td></tr><tr><td>2 PLACE</td><td>= .014</td><td>= 0.25</td><td></td></tr><tr><td>1 PLACE</td><td>= ---</td><td>= 0.35</td><td></td></tr></table>		INCH		METRIC		3 PLACE	= .010	---	---	2 PLACE	= .014	= 0.25		1 PLACE	= ---	= 0.35		TITLE .093(.236) HOUSING, PLUG AND RECEPTACLE, 2 CKT., .264(.670) CTRS.	
INCH		METRIC																					
3 PLACE	= .010	---	---																				
2 PLACE	= .014	= 0.25																					
1 PLACE	= ---	= 0.35																					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MOLEX INCORPORATED (EISEL, ILL.) 60532 U.S.A.																	
				PART NO. SEE CHART		SHEET NO. 2 DATE 11/21/88																	
				DWG. BY GEP		DWG. NO. 2																	
				CAS		SCALE R 1																	
LTR. REVISIONS		LTR. REVISIONS		D SEE SHT. 1		SD-319-1*																	
				FILE NAME 531912X2		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX AND SHOULD NOT BE USED WITHOUT THEIR PERMISSION.																	
				DIV. 10		SIZE C																	

NO P.S.





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

REV. NO. DATE

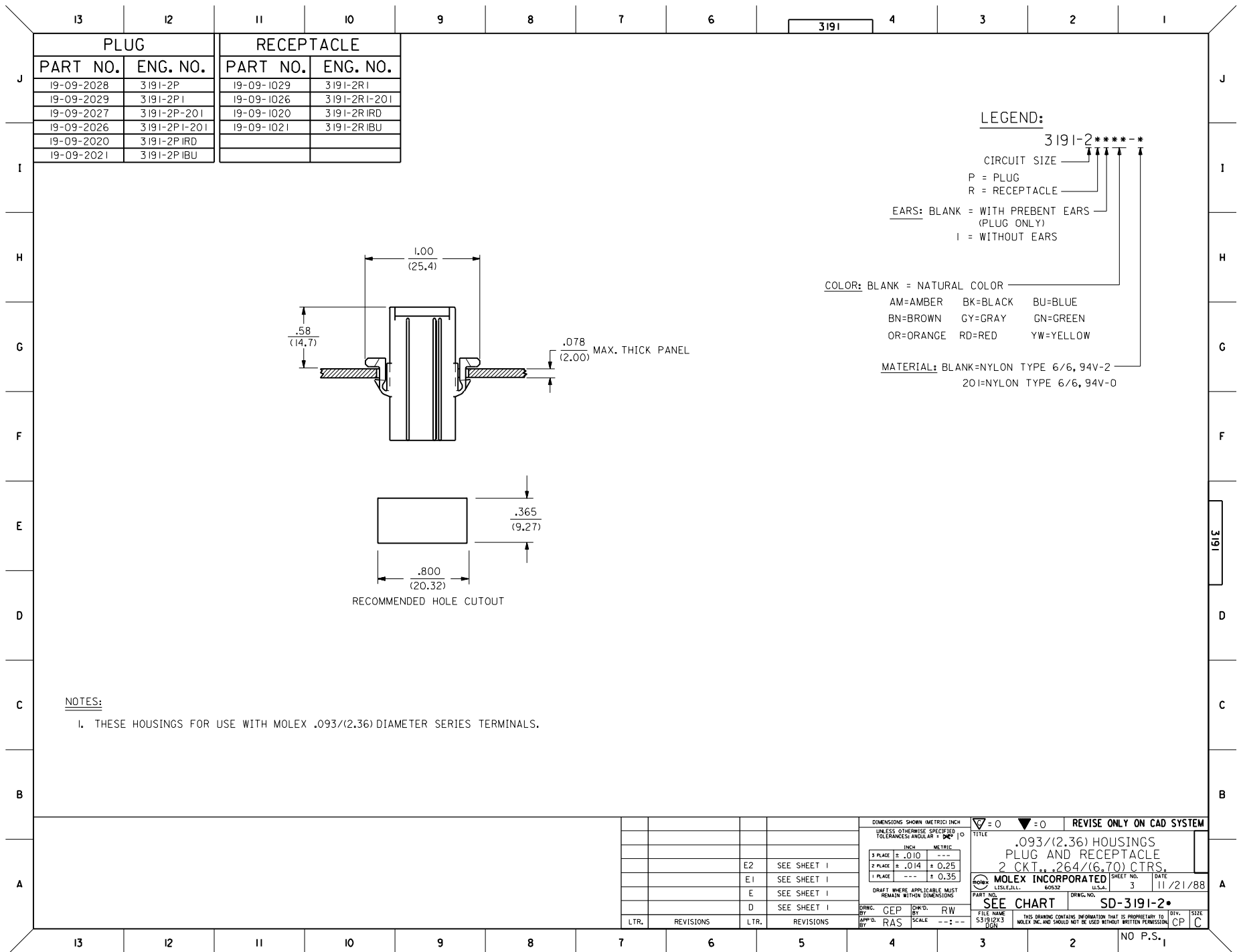
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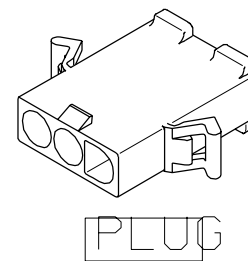
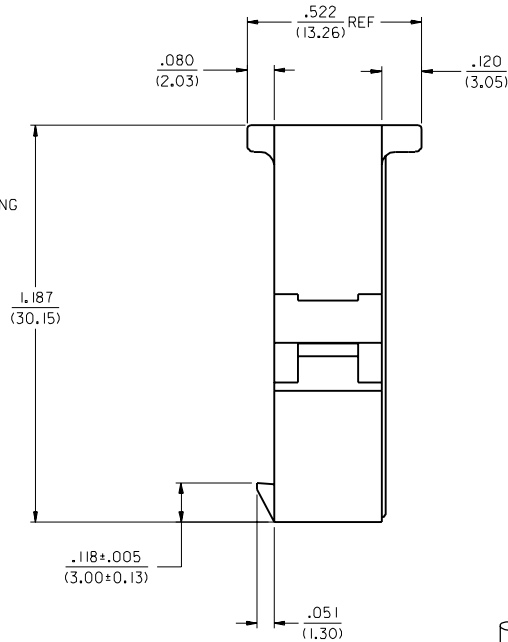
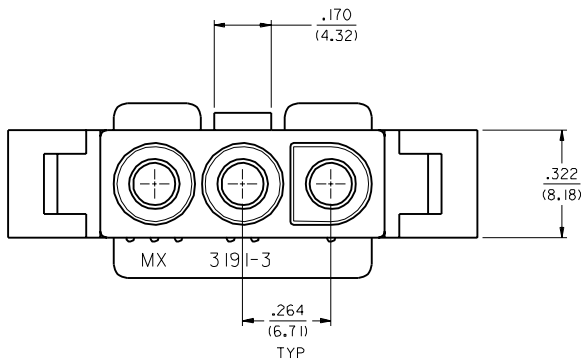
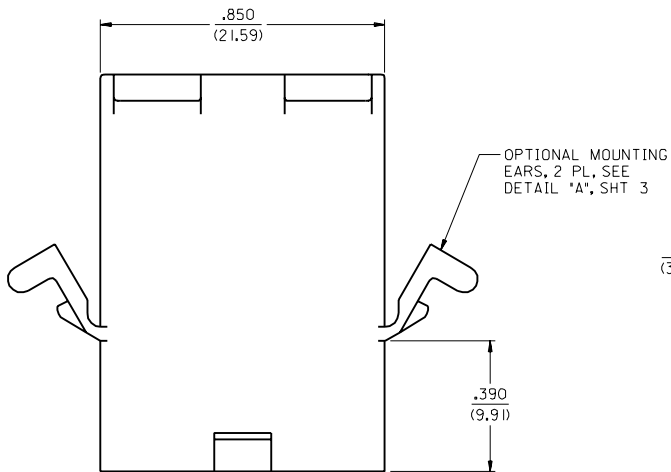
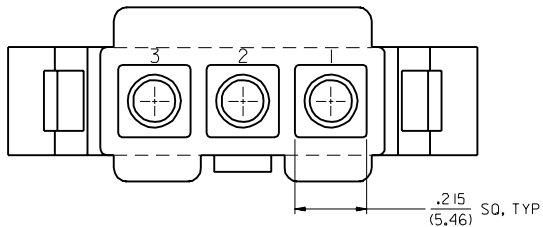
2. SD-3191-2

3. NO P.S.

4. NO P.S.

5. NO P.S.





3	J5		
2	J5	J5	REDRAWN ON CAD ECR US 0734 CK 1/8/96 RW
1	J5		

REV.	SH.	REV.	LTR.	REVISIONS
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DIMENSIONS SHOWN (METRIC) INCH		▽ = 0 ▼ = 0		REVISE ONLY ON CAD SYSTEM	
UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR ± 1/2°		TITLE		.093/(2.36) HOUSING PLUG AND RECEPTACLE 3 CKT. .264/(6.71) CTRS.	
INCH METRIC		PART NO.		SHEET NO.	
3 PLACE ± .010 ---		L15LEJLL		1 of 3	
2 PLACE ± .015 ± 0.25		MOLEX INCORPORATED		DATE	
1 PLACE --- ± 0.38		60532 U.S.A.		1/ 8/96	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-3191-3•	
DRWG. BY CXC		CHKD. BY RW		DIV.	
APP'D. BY RAS		SCALE 4 : 1		CP C	
FILE NAME S31913X1.DGN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		SIZE	

PLUG		RECEPTACLE	
PART NO.	ENG. NO.	PART NO.	ENG. NO.
I9-09-2038	3191-3P	I9-09-1039	3191-3RI
I9-09-2039	3191-3PI	I9-09-1036	3191-3RI-201
I9-09-2037	3191-3P-201	I9-09-3030	3191-3RIRD
I9-09-2036	3191-3PI-201		
I9-09-1038	3191-3PIRD		
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

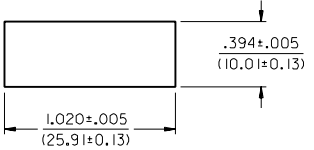
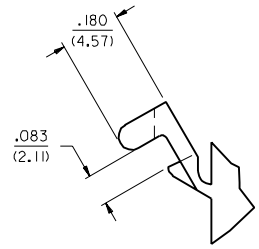
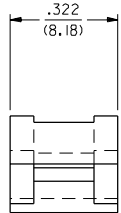
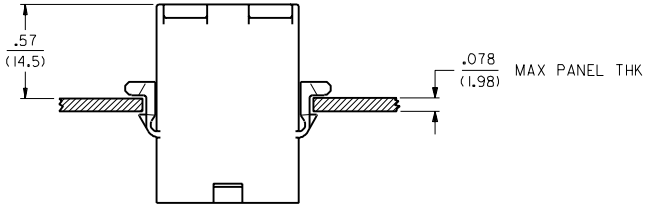
BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW

COLORS AVAILABLE ONLY IN 94V-2 MATERIAL

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

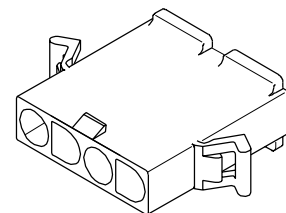
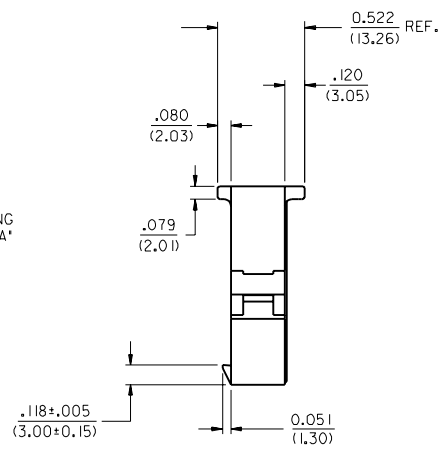
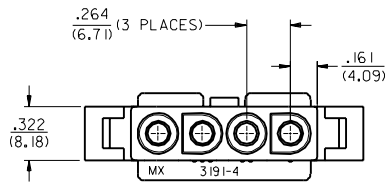
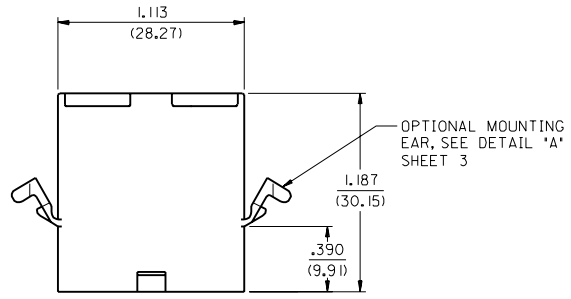
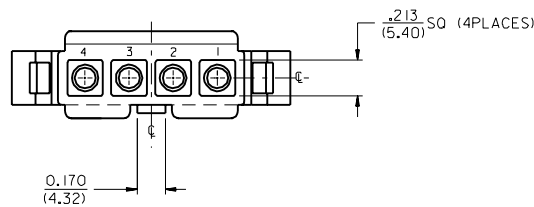
201=NYLON TYPE 6/6, 94V-0



DETAIL "A"

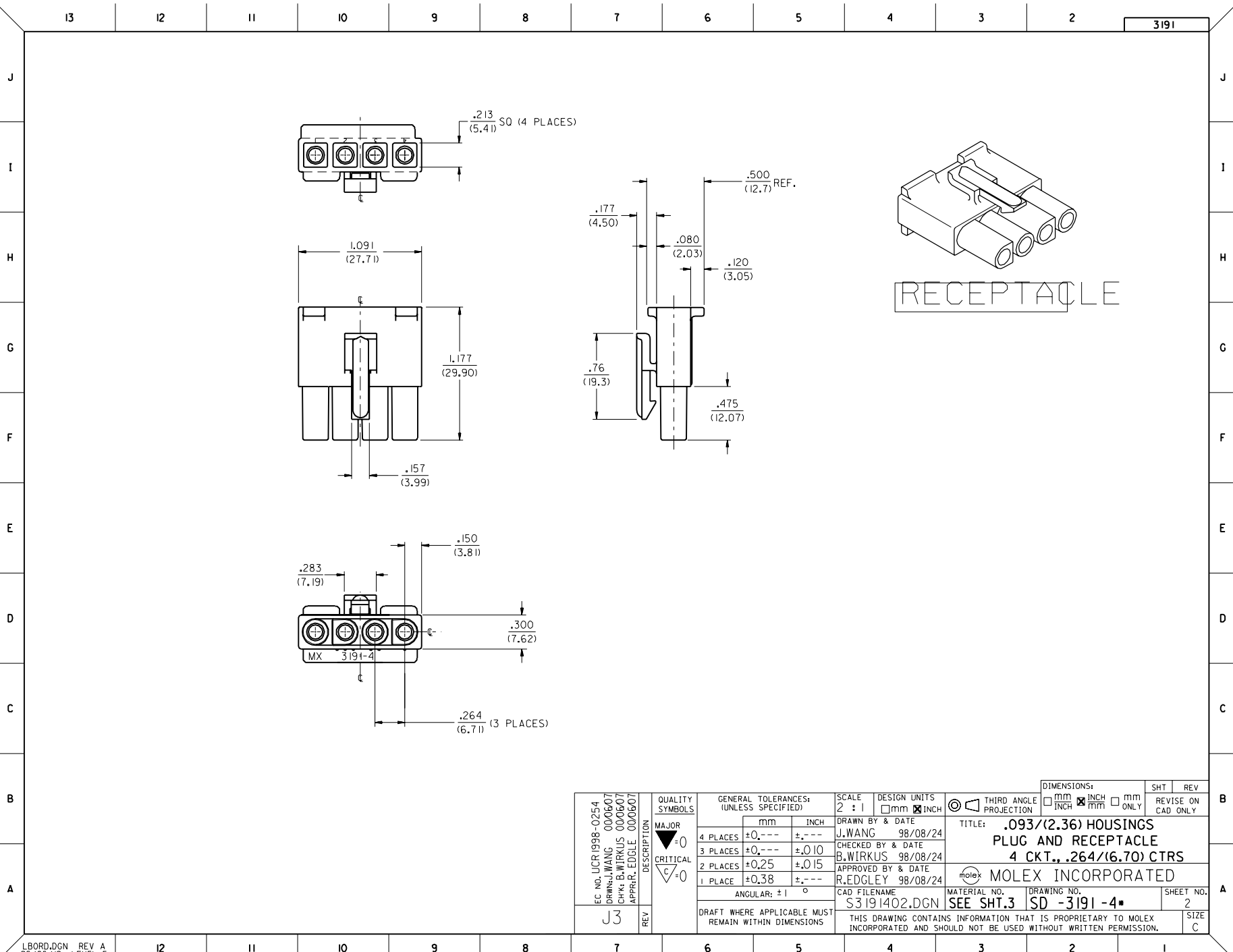
PREBENT MOUNTING EAR

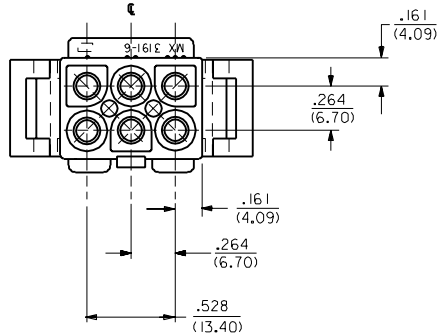
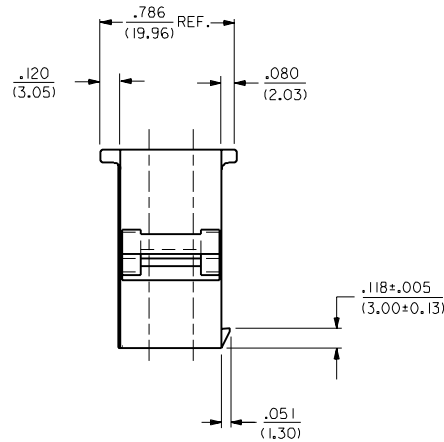
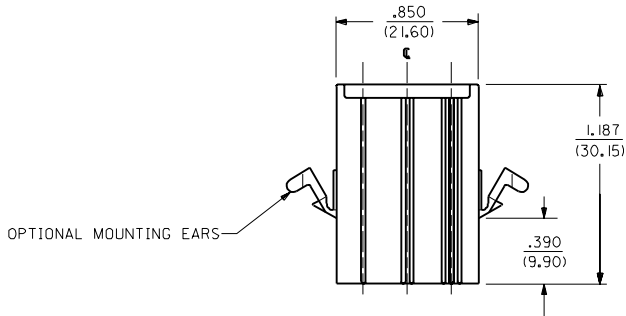
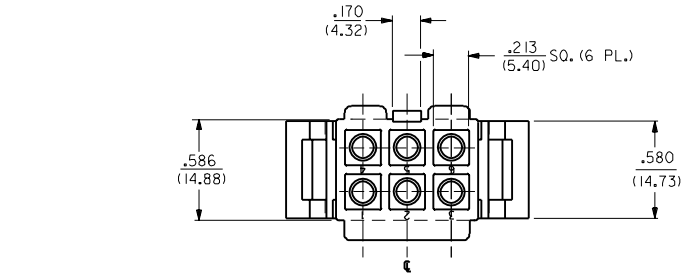
(SCALE 4:1)



PLUG HOUSING

REDRAWN ON CAD EC NO. UCR1998-0254 DRW: J. WANG 000607 CHK: WIRKUS 000607 APPR: R. EDGLEY 000607	QUALITY SYMBOLS MAJOR $\nabla=0$ CRITICAL $\nabla=0$	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 4-CKTS, .264/(6.70) CTRS MOLEX INCORPORATED		SHEET NO. 1 OF 3	REV
		3 PLACES	±0.---	±.010	CHECKED BY & DATE WIRKUS 98/08/24					
		2 PLACES	±0.25	±.015	APPROVED BY & DATE R. EDGLEY 98/08/24					
		1 PLACE	±0.38	±.---	CAD FILENAME S3191401.DGN					
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.					SIZE C





PLUG

MI	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
K	REV. & FINAL REL. ECR UB 1710 GEP 7-14-88 RW
J	REVISED & REDRAWN PER ECR UB 0122 2-2-88 SCHAFFER
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		MOLEX INCORPORATED		SHEET NO. DATE 1 OF 3 1/25/88	
3 PLACE ± .010 ---		LITSEJLL.		U.S.A. 60532	
2 PLACE ± .014 ± 0.25		PART NO.		SD-3191-6•	
1 PLACE --- ± 0.36		DRAWING		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		CHKD. BY RW		SIZE	
APP'D. BY RAS		SCALE 2 : 1		CP C	

