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ELECTRONICS

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Jameco Part Number 743162

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

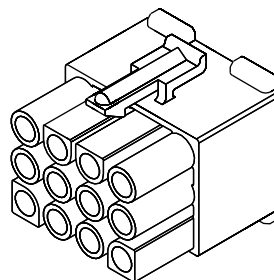
Housing: Nylon, UL 94V-0 or 94V-2
 Operating Temperature: -40 to +105°C

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



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

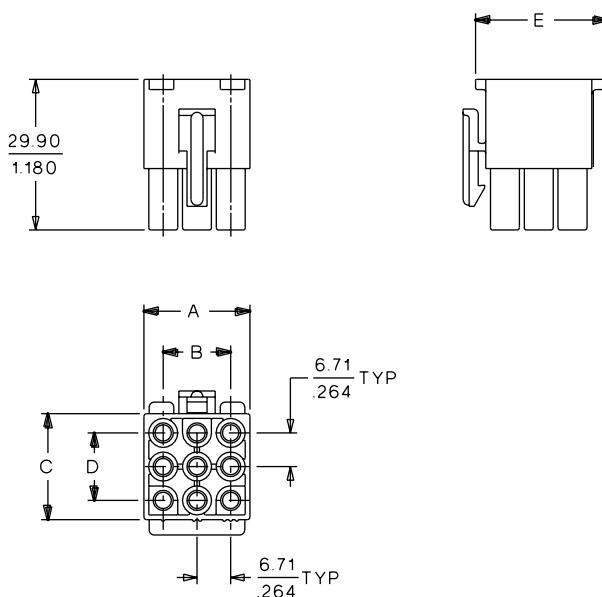
3191



Power Connectors

F

CATALOG DRAWING (FOR REFERENCE ONLY)

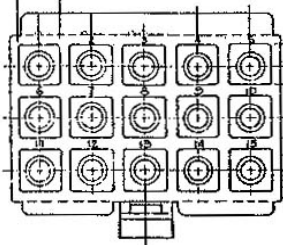


ORDERING INFORMATION AND DIMENSIONS

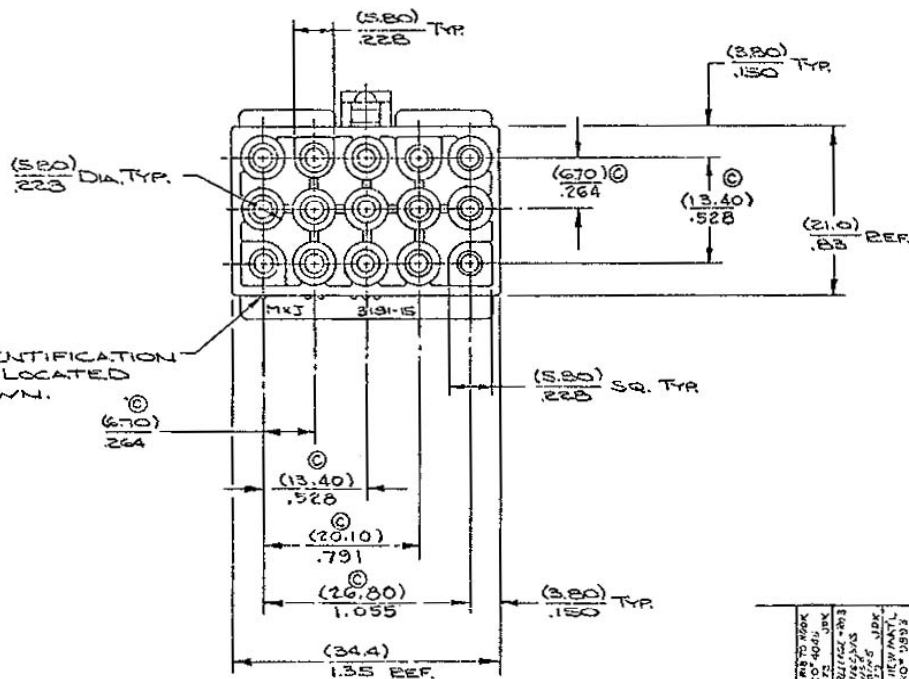
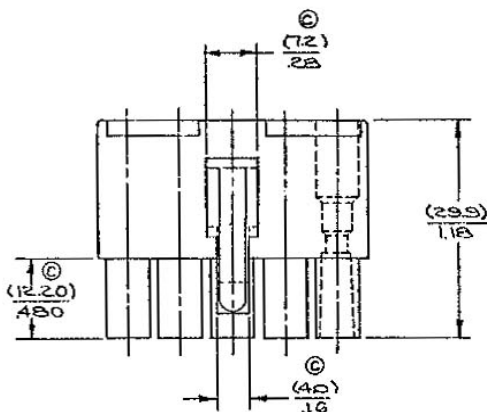
Circuits	Order No.		Amperes per Circuit	Dimension				
	94V-2	94V-0		A	B	C	D	E
1	• 19-09-1019	• 19-09-1016	12	7.60 (.300)		7.60 (.300)		10.62 (.418)
2	• 19-09-1029	• 19-09-1026	12	14.30 (.560)	6.71 (.264)	7.60 (.300)		12.70 (.500)
3	• 19-09-1039	• 19-09-1036	11	21.00 (.830)	13.42 (.528)	7.60 (.300)		12.70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

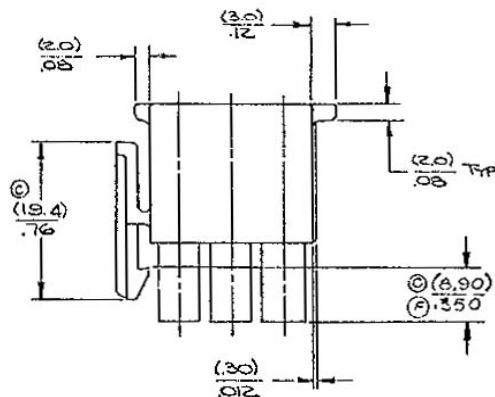
(5.40)
.213 TYP



(5.40)
.213 TYP



SIDE IDENTIFICATION
BEADS LOCATED
AS SHOWN.

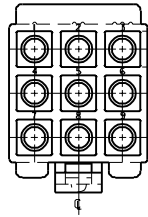


19-09-3151	SD-3191-15R1-200	ASAHI LEONA FR-200
NOT TOOLED	SD-3191-15R1-202	MOD. NYLON 6/6 94V-C DUPONT FE-3016
NOT TOOLED	SD-3191-15R1-200	MOD. NYLON 6/6 94V-O MONSANTO M340
19-09-1156	SD-3111-15R1-201	MOD. NYLON 6/6 94V-O WELLMID FR22-FW
19-09-1159	SD-3191-15R1	NYLON TYPE 6/6 94V-O

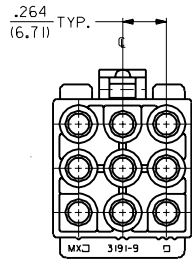
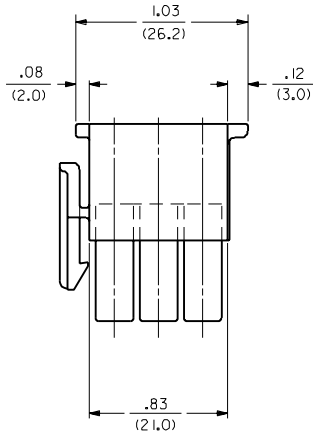
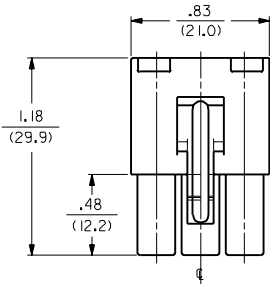
PART NO. ENG. NO.

MATERIAL

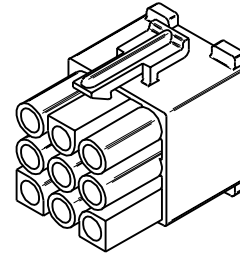
REVISIONS				TITLE			
1	WEL	10/28/75	2X	HOUSING - RECEPTACLE, 15 CRT. (UNIVERSAL)			
MOLEX INCORPORATED				DATE			
19-09-1156				10/28/75			
SD-3191-15R1-200				USA			



.213
(5.40) S.O.



.264
(6.71) TYP.



RECEPTACLE

DIMENSIONS SHOWN (METRIC) INCH		REVISIONS ONLY ON CAD SYSTEM	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± .005° TO		TITLE	
INCH METRIC		FILE NAME	
3 PLACE ± .010 ---	2 PLACE ± .014 ± 0.25	531919X2	
1 PLACE --- ± 0.35		DGN	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
DRWG. BY: CEP		DRWG. NO. SD-3191-9	
CHKD. BY: RW		REV. CP	
APP'D. BY: RAS		SCALE 2:1	
LTR. REVISIONS		NO P.S.	

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

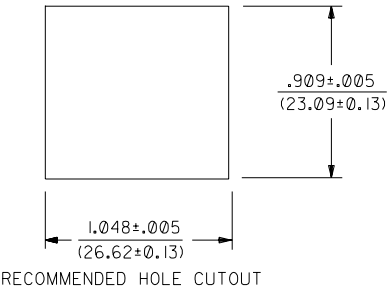
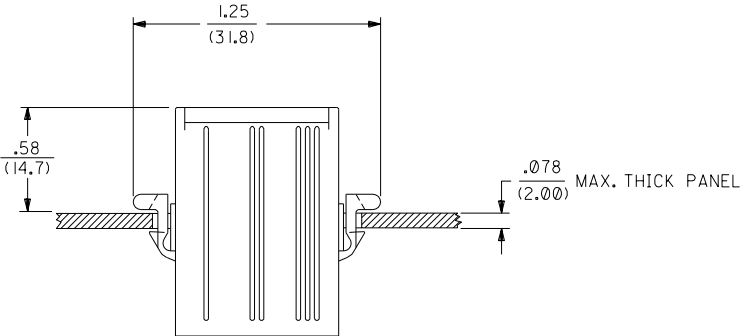
BN=BROWN GY=GRAY GN=GREEN

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

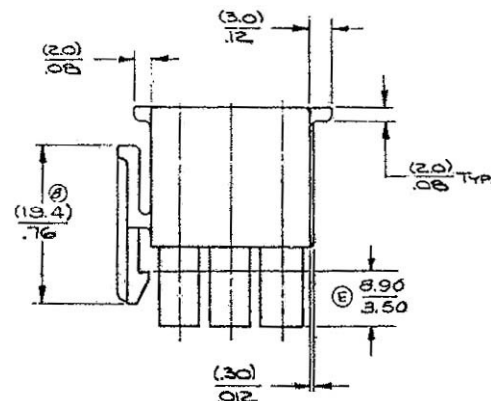
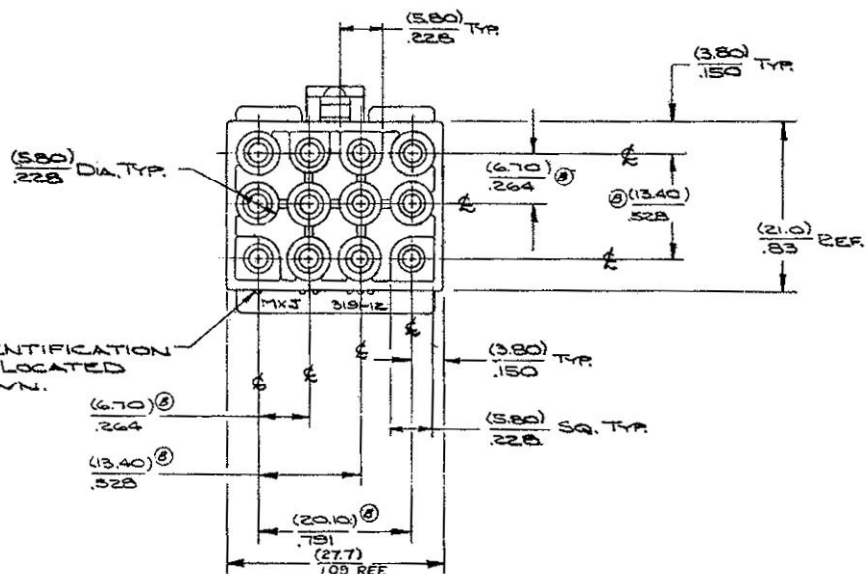


NOTES:

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 ± .04° 10				TITLE		.093/(2.36) HOUSINGS PLUG AND RECEPTACLE 9 CKT. ± .264/(6.70) CTRS.		PART NO.		DRWG. NO.	
INCH METRIC				3 PLACE ± .010 ---		2 PLACE ± .014 ± 0.25		1 PLACE --- ± 0.35		MOLEX INCORPORATED	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				LITSE,ILL. 60532 U.S.A.		SHEET NO. 3		DATE 8/ 2/89		SEE CHART	
DRWG. BY CEP CHK'D. BY RW				FILE NAME S31919X3 001		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DIV. CP		SIZE C	
APPR'D. BY RAS SCALE --:--				LTR. REVISIONS		LTR. REVISIONS		NO P.S.		1	

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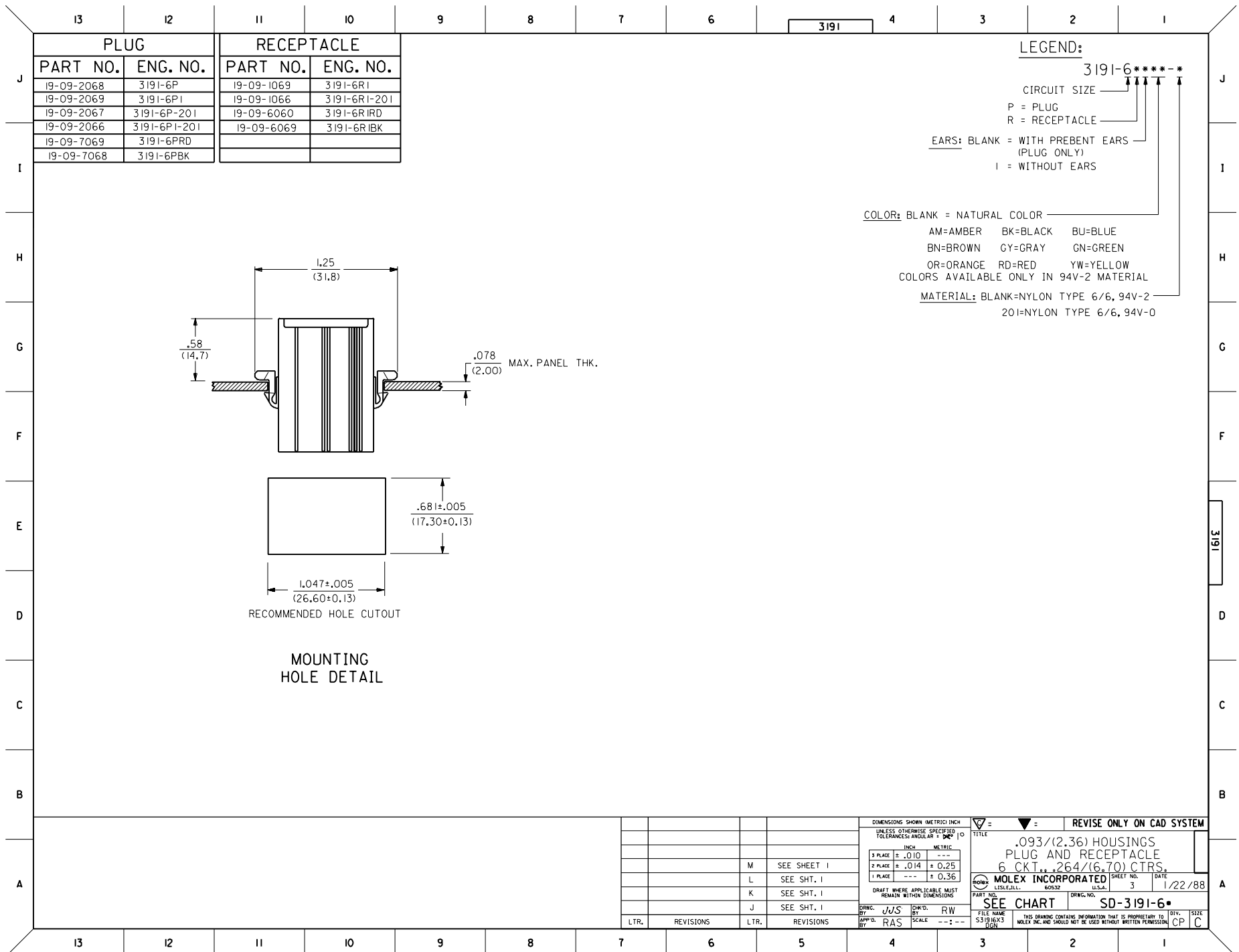


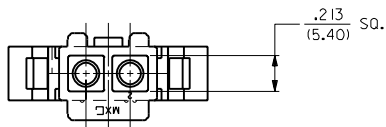
NOTE:

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

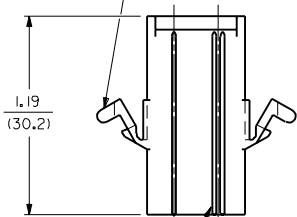
NOT TOOLED	SDX-3191-12R1-D	NYLON 6/6 94U-2 COLOR NATURAL. (-D INDICATES DYED)
19-09-3121	SD-3191-12R1-203	ASAHI CEONA FR-200
NOT TOOLED	SDX-3191-12R1-202	MOD. NYLON 6/6 94U-0 DUPONT FE-301G
NOT TOOLED	SDX-3191-12R1-200	MOD. NYLON 6/6, 94U-0, MOUNSANTO M340
19-09-1126	SD-3191-12R1-201	MOD. NYLON 6/6,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

[illegible]

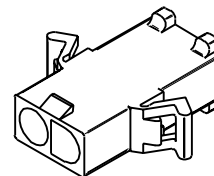
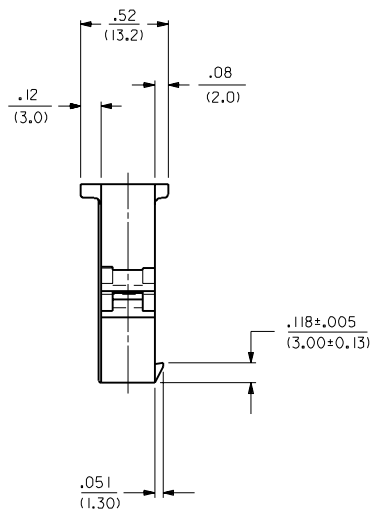
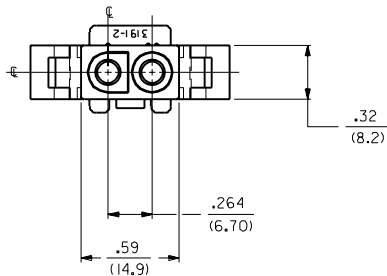




PREBENT MOUNTING EAR
(WHEN SPECIFIED)



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		LIT/LEJLL 60532 U.S.A.	
DRWG. BY CEP		DRWG. NO. SD-3191-2*	
CHKD. BY RW		FILE NAME	
SCALE 2 : 1		S31912X1	
APP'D. BY RAS		DIV. CP	
		SIZE	

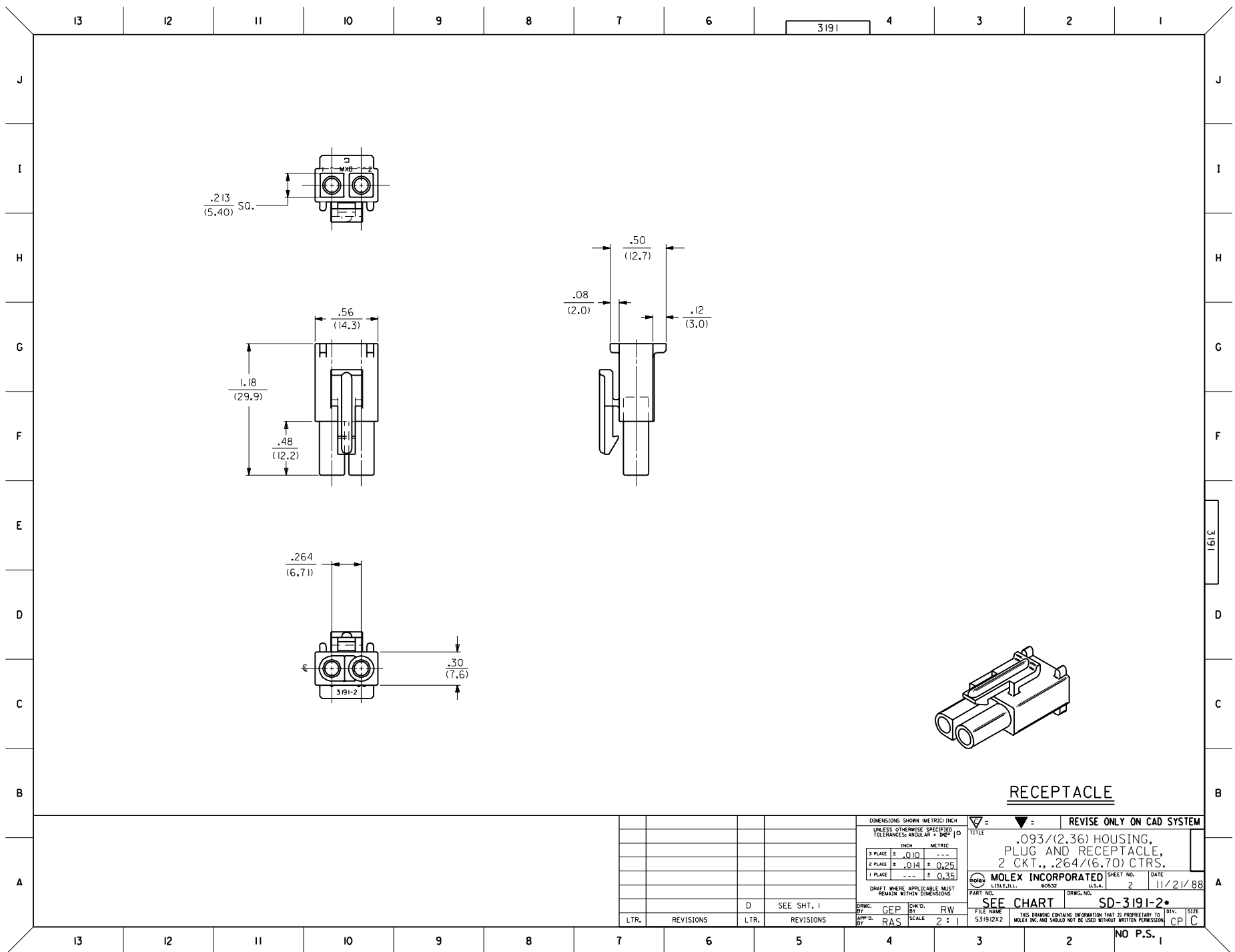
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

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 QC 12/30/92 RW
E1	REL. RED VERSIONS ECR U1 2167 QC 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
L.T.R.	REVISIONS

SH. REV. LTR. REVISIONS

REVISE ONLY ON CAD SYSTEM

NO P.S.



RECEPTACLE

DIMENSIONS SHOWN (METRIC) INCH

UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR .001°

INCH METRIC

3 PLACE ± .010 ---

2 PLACE ± .014 ± 0.25

1 PLACE --- ± 0.35

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRWG. BY CEP

APP'D. BY RAS

SCALE 2 : 1

DATE 11/21/88

REV. 1

REV. 2

REV. 3

REV. 4

REV. 5

REV. 6

REV. 7

REV. 8

REV. 9

REV. 10

REV. 11

REV. 12

REV. 13

REV. 14

REV. 15

REV. 16

REV. 17

REV. 18

REV. 19

REV. 20

REV. 21

REV. 22

REV. 23

REV. 24

REV. 25

REV. 26

REV. 27

REV. 28

REV. 29

REV. 30

REV. 31

REV. 32

REV. 33

REV. 34

REV. 35

REV. 36

REV. 37

REV. 38

REV. 39

REV. 40

REV. 41

REV. 42

REV. 43

REV. 44

REV. 45

REV. 46

REV. 47

REV. 48

REV. 49

REV. 50

REV. 51

REV. 52

REV. 53

REV. 54

REV. 55

REV. 56

REV. 57

REV. 58

REV. 59

REV. 60

REV. 61

REV. 62

REV. 63

REV. 64

REV. 65

REV. 66

REV. 67

REV. 68

REV. 69

REV. 70

REV. 71

REV. 72

REV. 73

REV. 74

REV. 75

REV. 76

REV. 77

REV. 78

REV. 79

REV. 80

REV. 81

REV. 82

REV. 83

REV. 84

REV. 85

REV. 86

REV. 87

REV. 88

REV. 89

REV. 90

REV. 91

REV. 92

REV. 93

REV. 94

REV. 95

REV. 96

REV. 97

REV. 98

REV. 99

REV. 100

REV. 101

REV. 102

REV. 103

REV. 104

REV. 105

REV. 106

REV. 107

REV. 108

REV. 109

REV. 110

REV. 111

REV. 112

REV. 113

REV. 114

REV. 115

REV. 116

REV. 117

REV. 118

REV. 119

REV. 120

REV. 121

REV. 122

REV. 123

REV. 124

REV. 125

REV. 126

REV. 127

REV. 128

REV. 129

REV. 130

REV. 131

REV. 132

REV. 133

REV. 134

REV. 135

REV. 136

REV. 137

REV. 138

REV. 139

REV. 140

REV. 141

REV. 142

REV. 143

REV. 144

REV. 145

REV. 146

REV. 147

REV. 148

REV. 149

REV. 150

REV. 151

REV. 152

REV. 153

REV. 154

REV. 155

REV. 156

REV. 157

REV. 158

REV. 159

REV. 160

REV. 161

REV. 162

REV. 163

REV. 164

REV. 165

REV. 166

REV. 167

REV. 168

REV. 169

REV. 170

REV. 171

REV. 172

REV. 173

REV. 174

REV. 175

REV. 176

REV. 177

REV. 178

REV. 179

REV. 180

REV. 181

REV. 182

REV. 183

REV. 184

REV. 185

REV. 186

REV. 187

REV. 188

REV. 189

REV. 190

REV. 191

REV. 192

REV. 193

REV. 194

REV. 195

REV. 196

REV. 197

REV. 198

REV. 199

REV. 200

REV. 201

REV. 202

REV. 203

REV. 204

REV. 205

REV. 206

REV. 207

REV. 208

REV. 209

REV. 210

REV. 211

REV. 212

REV. 213

REV. 214

REV. 215

REV. 216

REV. 217

REV. 218

REV. 219

REV. 220

REV. 221

REV. 222

REV. 223

REV. 224

REV. 225

REV. 226

REV. 227

REV. 228

REV. 229

REV. 230

REV. 231

REV. 232

REV. 233

REV. 234

REV. 235

REV. 236

REV. 237

REV. 238

REV. 239

REV. 240

REV. 241

REV. 242

REV. 243

REV. 244

REV. 245

REV. 246

REV. 247

REV. 248

REV. 249

REV. 250

REV. 251

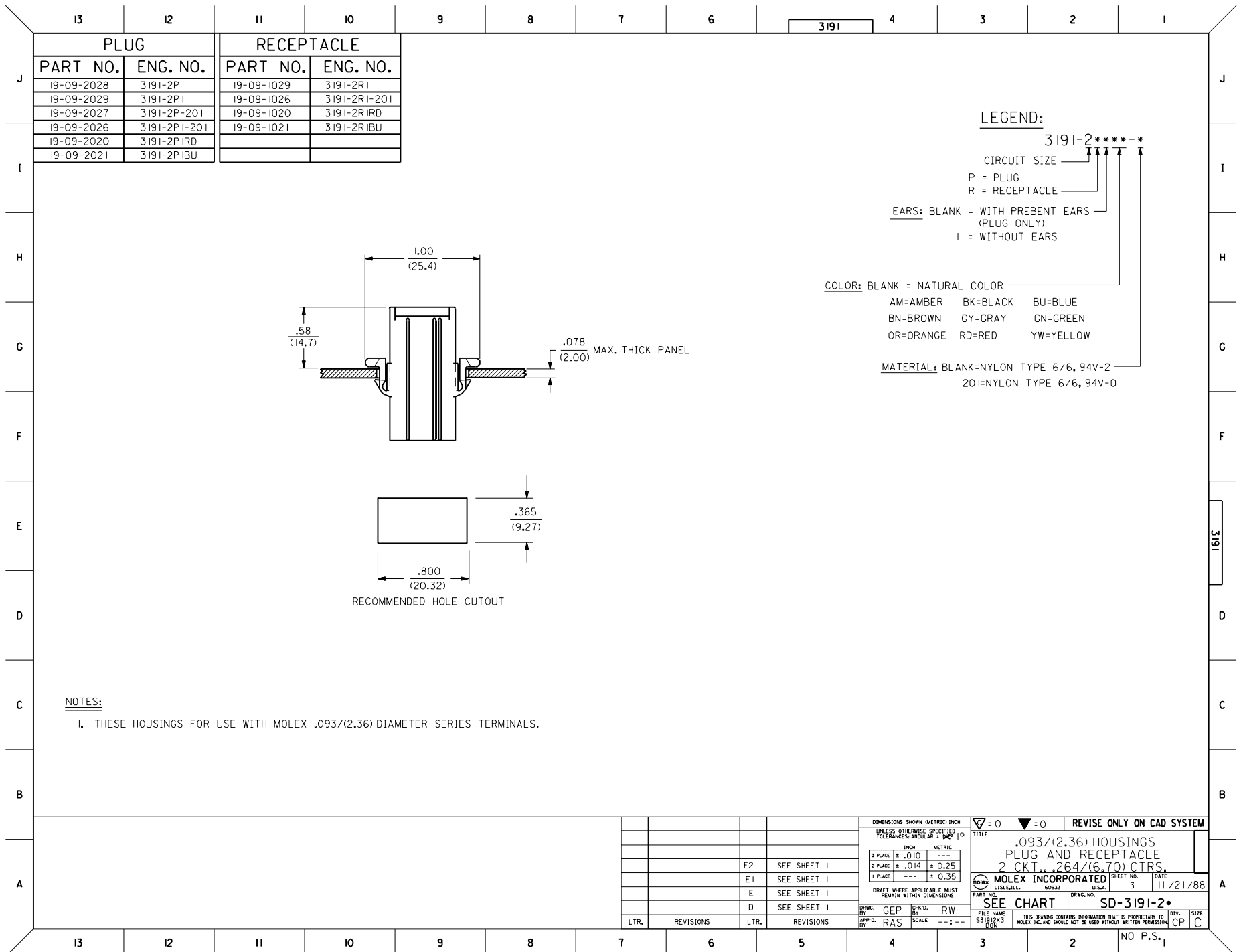
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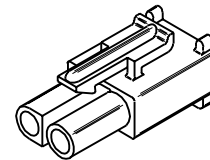
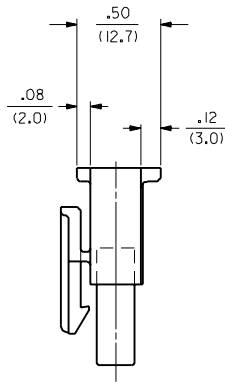
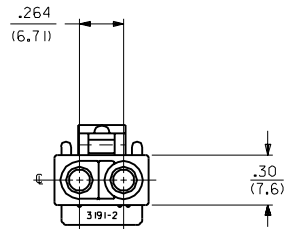
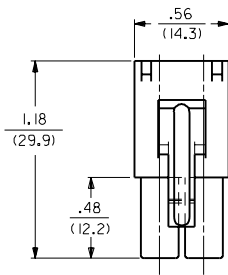
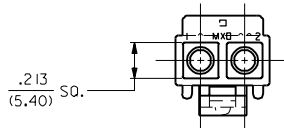
REV. 253

REV. 254

REV. 255

REV. 256</





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

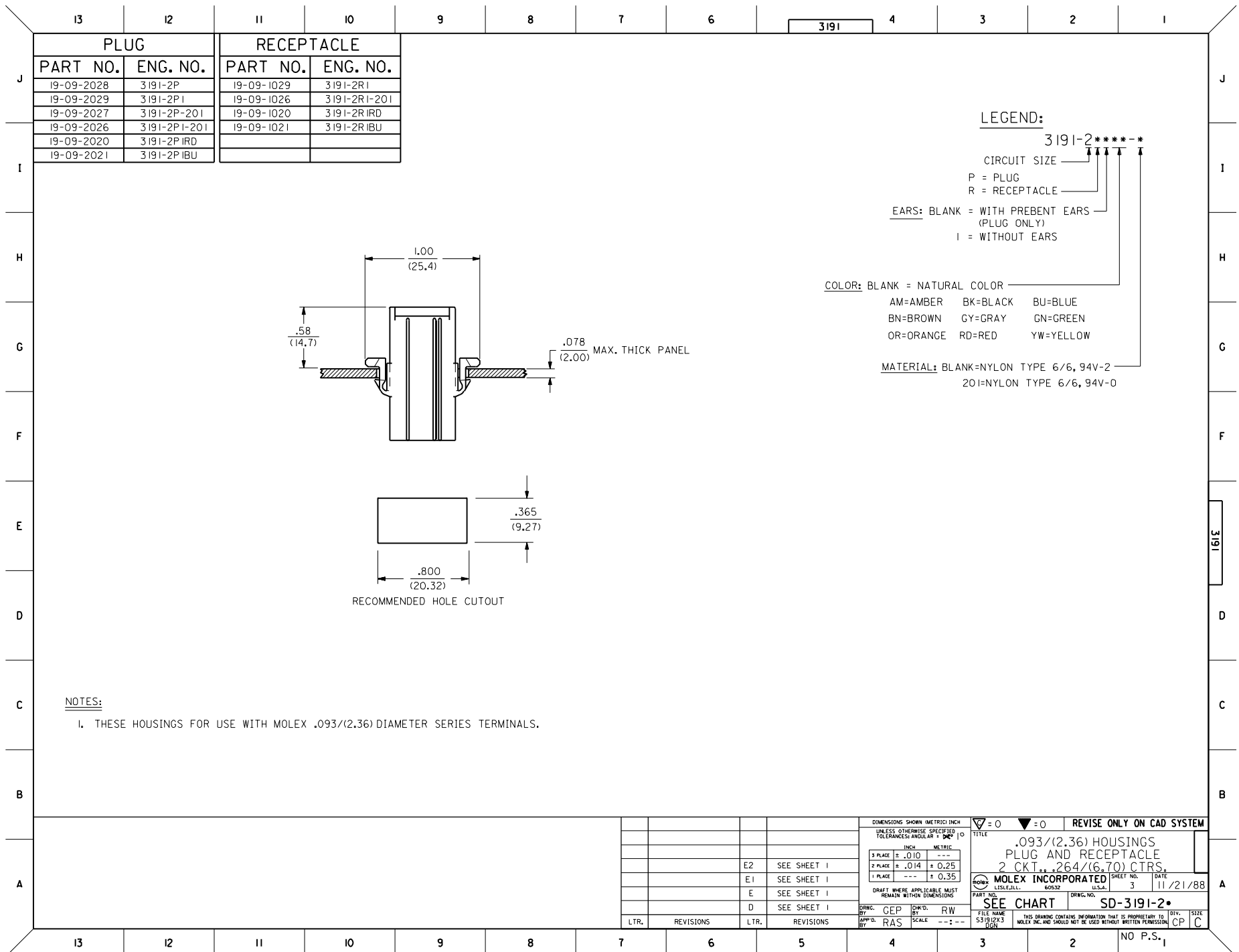
REVISIONS

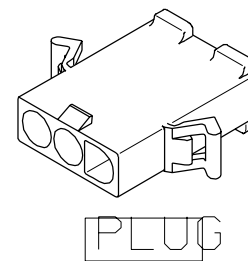
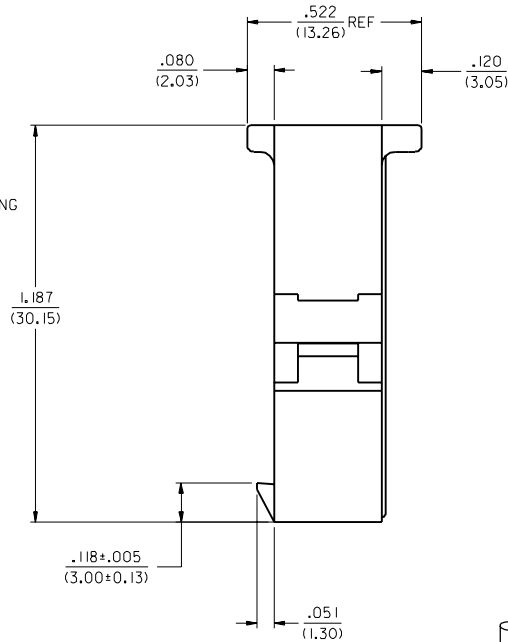
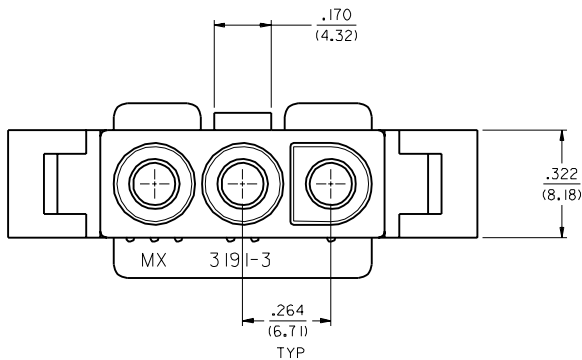
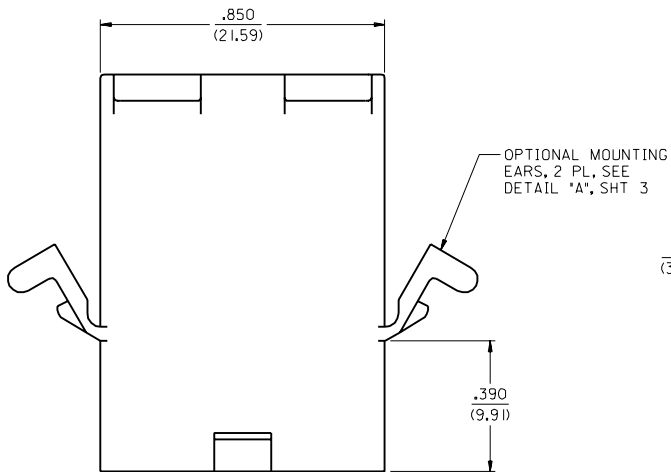
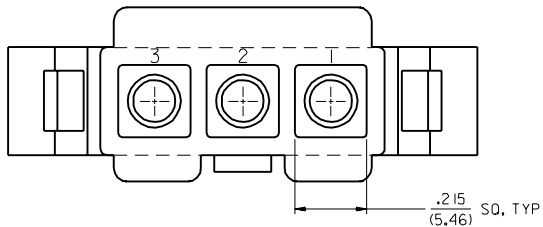
REV. NO. DATE

1. SEE CHART

2. SD-3191-2

3. NO P.S.





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

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°					
INCH		METRIC			
3 PLACE	± .010	---			
2 PLACE	± .015	± 0.25			
1 PLACE	---	± 0.38			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
DRWG. BY APP'D.	CHK'D. BY SCALE	FILE NAME S31913X1 DOZ		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
CXC	RAS	4 : 1			
PART NO. L15LEJLL		DRWG. NO. 60532		SHEET NO. 1 of 3	
SEE CHART		SD-3191-3•		DATE 1/ 8/96	
DIV. CP		SIZE C			

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	3191-3RI-IRD
I9-09-2036	3191-3PI-201		
I9-09-1038	3191-3PI-IRD		
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

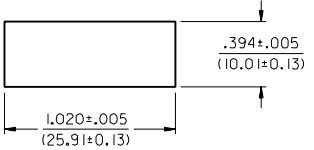
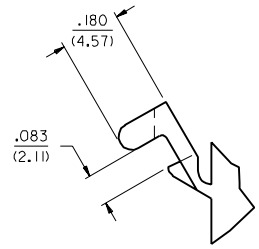
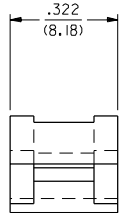
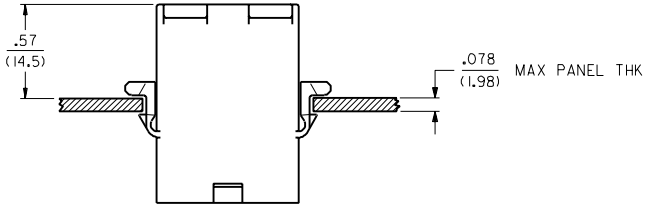
BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW

COLORS AVAILABLE ONLY IN 94V-2 MATERIAL

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

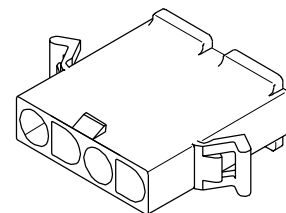
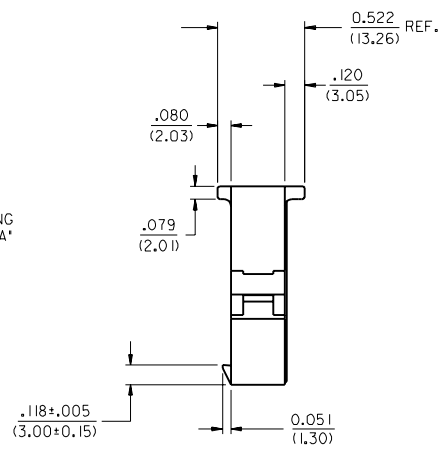
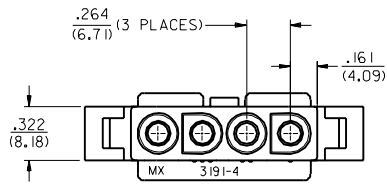
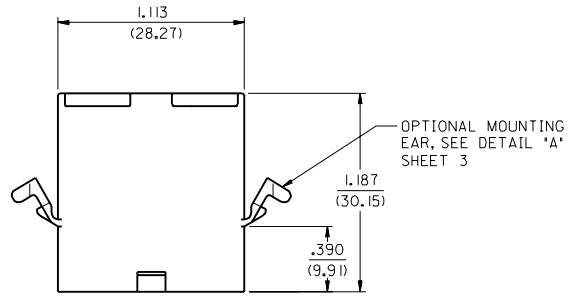
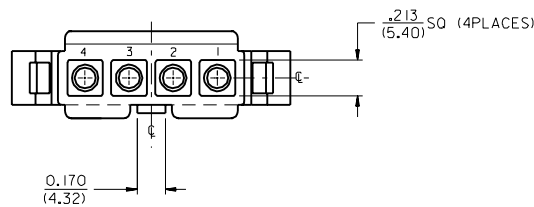
201=NYLON TYPE 6/6, 94V-0



DETAIL "A"

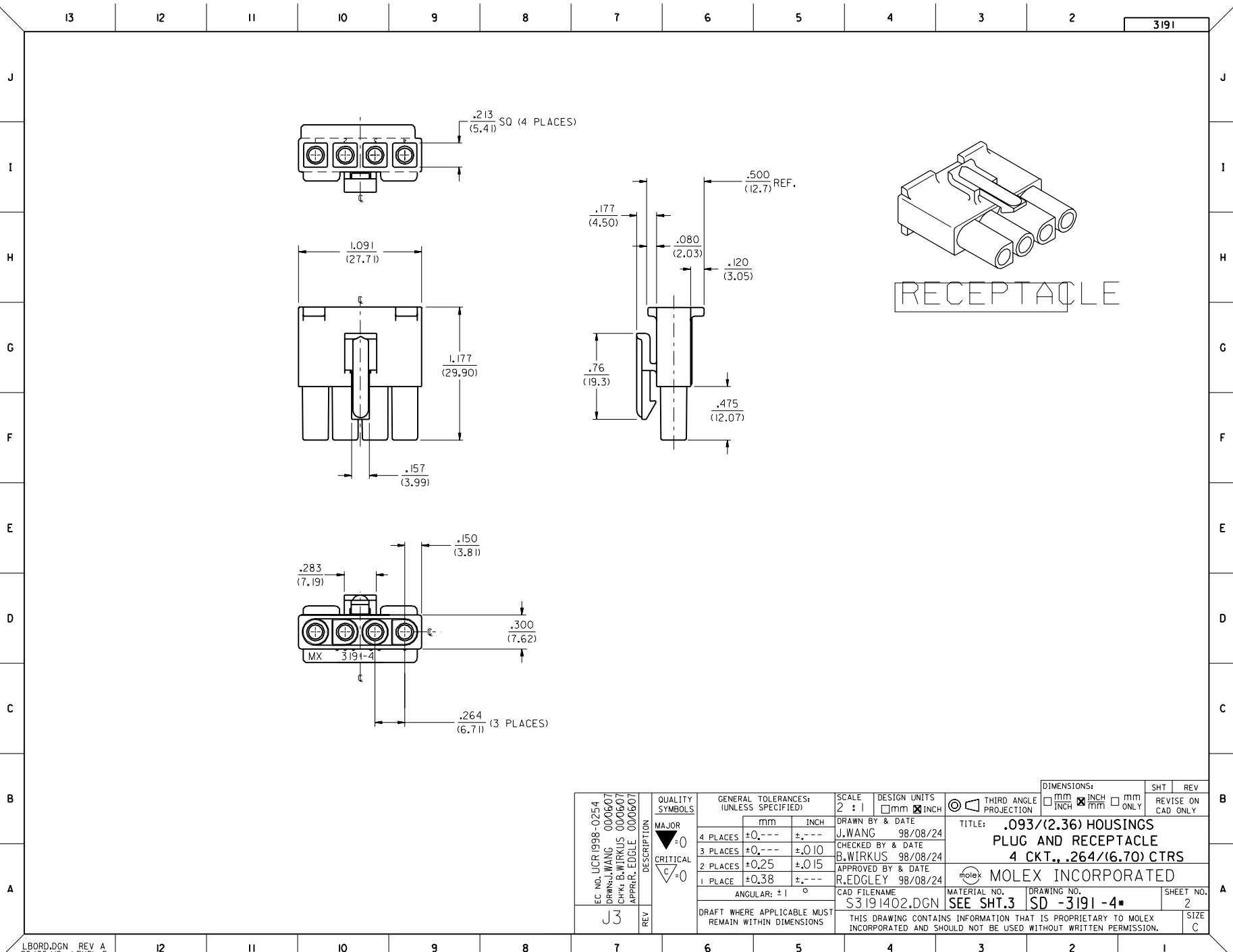
PREBENT MOUNTING EAR

(SCALE 4:1)

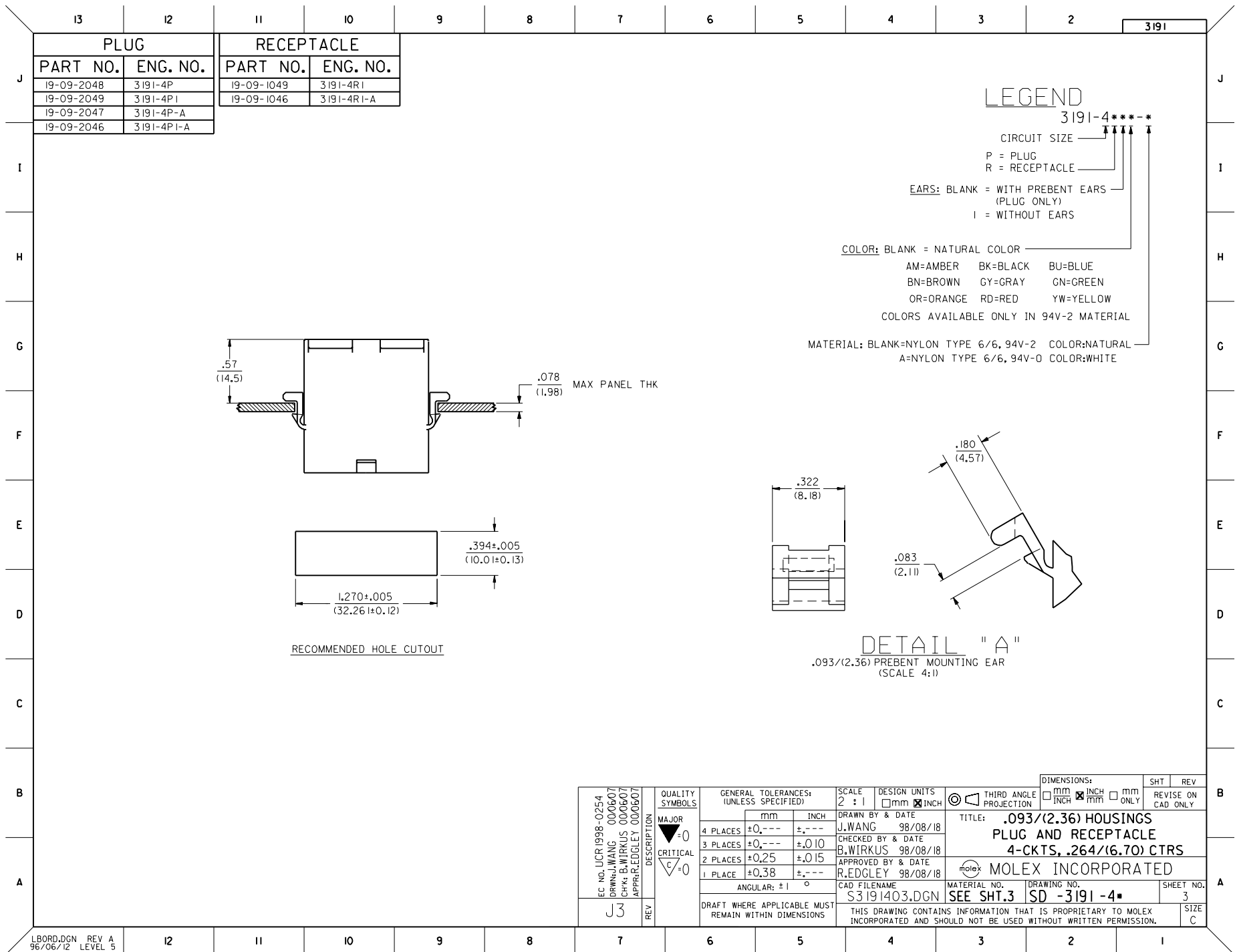


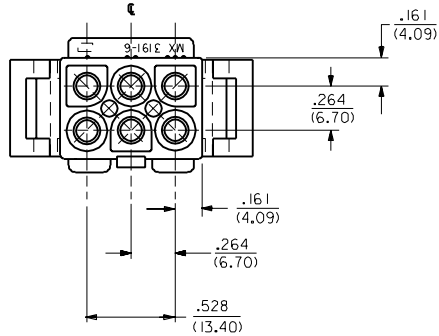
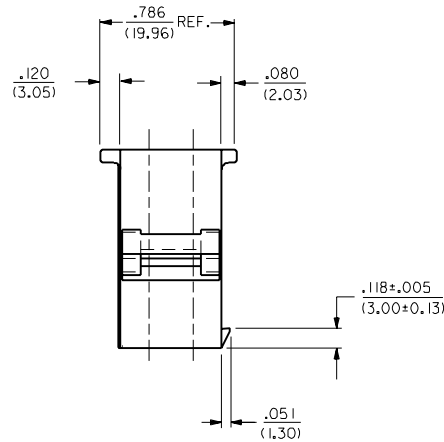
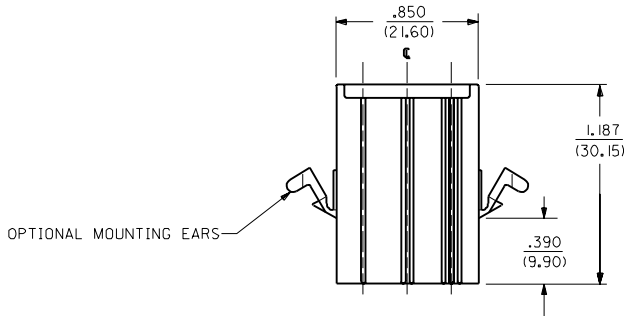
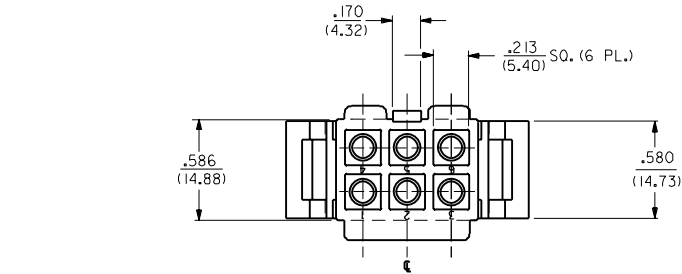
PLUG HOUSING

REDRAWN ON CAD EC NO. UCR1998-0254 DRW: J. WANG 000607 CHK: WIRKUS 000607 APPR: R. EDGLEY 000607 J3	REV	DESCRIPTION	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
						DRAWN BY & DATE J. WANG 98/08/24		TITLE: .093/(2.36) HOUSINGS PLUG AND RECEPTACLE 4-CKTS, .264/(6.70) CTRS				REVISE ON CAD ONLY	
						CHECKED BY & DATE WIRKUS 98/08/24		MOLEX INCORPORATED					
						APPROVED BY & DATE R. EDGLEY 98/08/24		MATERIAL NO. SEE SHT. 3				DRAWING NO. SD -3191 -4	
						CAD FILENAME S3191401.DGN		SHEET NO. 1 OF 3					
						ANGULAR: ± 1 °		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.					SIZE C
						DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							



EC NO. LCR 1998-0254 DRAWN: WANG 000607 CHKD: B.WIRKUS 000607 APPR: R.EDGE 000607		DESCRIPTION	QUALITY SYMBOLS MAJOR CRITICAL	GENERAL TOLERANCES: (UNLESS SPECIFIED)		SCALE 2 : 1	DESIGN UNITS ☐ mm ☒ INCH	 THIRD ANGLE PROJECTION	DIMENSIONS: ☐ mm ☒ INCH ☐ mm ☐ INCH ☐ mm ONLY			SHT	REV	
												REVISE ON CAD ONLY		
						DRAWN BY & DATE J.WANG 98/08/24			TITLE: .093/(2.36) HOUSINGS					
						CHECKED BY & DATE B.WIRKUS 98/08/24			PLUG AND RECEPTACLE					
J3		REV		2 PLACES		±0.25 ±.015		APPROVED BY & DATE R.EDGELEY 98/08/24		4 CKT., .264/(6.70) CTRS				
				1 PLACE		±0.38 ±.---		CAD FILENAME S3191402.DGN		MATERIAL NO. SEE SHT.3		DRAWING NO. SD -3191 -4*		SHEET NO. 2
				ANGULAR: ±1 °										
				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

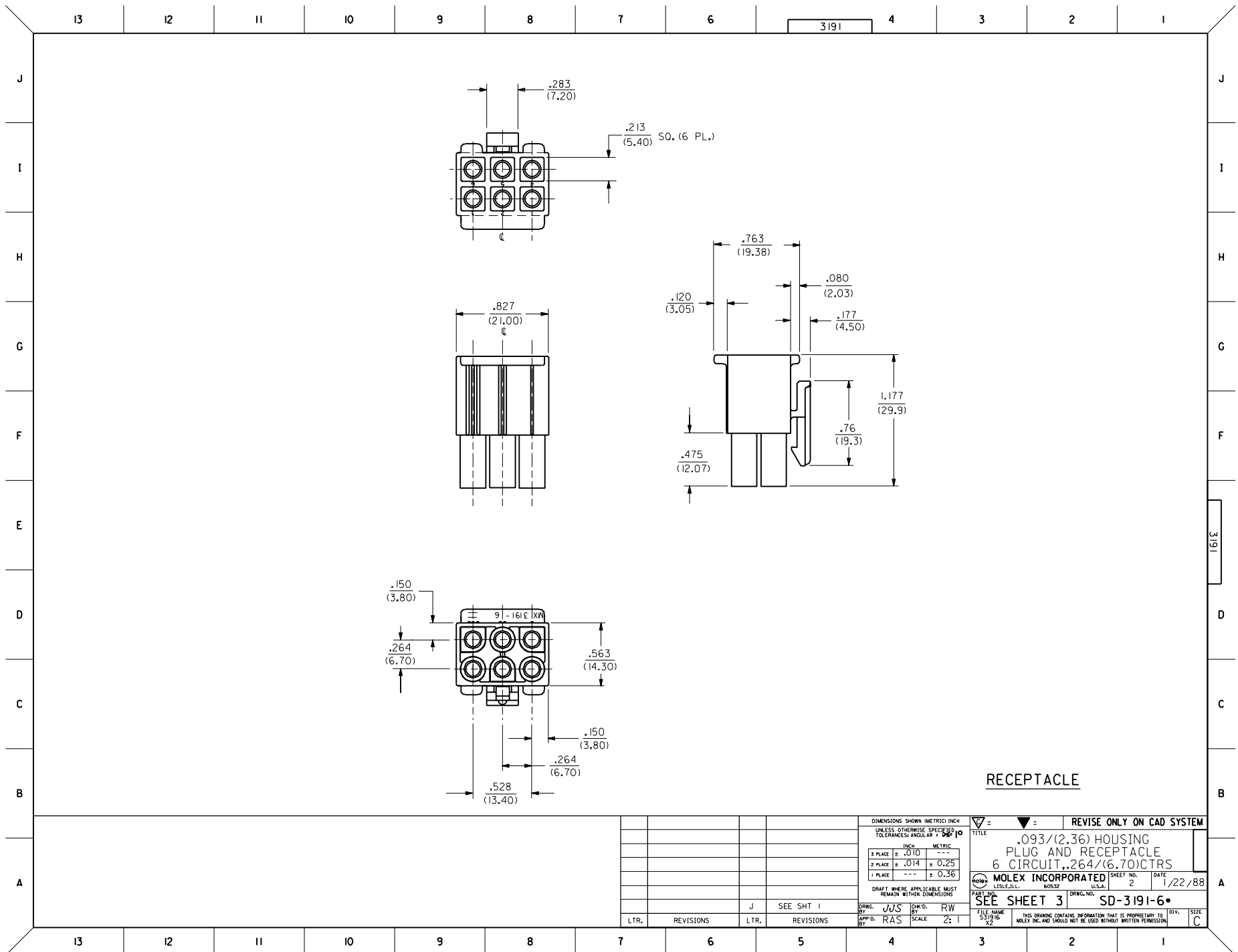




PLUG

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		PART NO.		SHEET NO. DATE	
3 PLACE ± .010 ---		MOLEX INCORPORATED		1 OF 3 1/25/88	
2 PLACE ± .014 ± 0.25		LITSE, JLL. 60532 U.S.A.			
1 PLACE --- ± 0.36		DRAWN BY		SD-3191-6•	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		CHKD. BY		REV. BY	
DRWG. BY JJS		SCALE 2 : 1		FILE NAME	
APP'D. BY RAS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	



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

DRG. BY JUS

APP'D. BY RAS

SCALE 2:1

DATE 1/22/88

SIZE C

REVISIONS

DATE

BY

REVISIONS

DATE

BY

REVISIONS

DATE

BY

REVISIONS

DATE

BY

REVISIONS

DATE

BY

REVISIONS

DATE

BY

TITLE		.093/(2.36) HOUSING PLUG AND RECEPTACLE 6 CIRCUIT, .264/(6.70) CTRS	
PART NO.		SD-3191-6*	
MOLEX INCORPORATED		SHEET NO. 2	
LITTLE ROCK, ARK. 60532		DATE 1/22/88	
FILE NAME		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.	
3191-6		DIV. C	

