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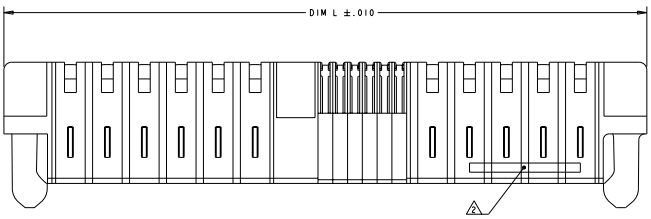
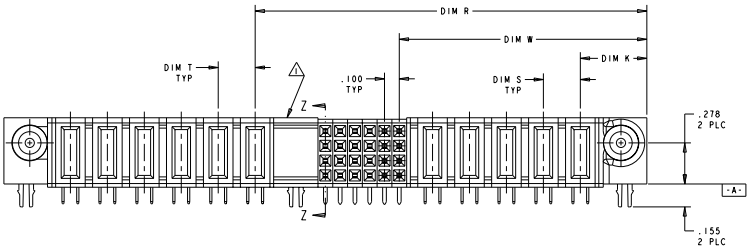
LOC	DIST
GP	00

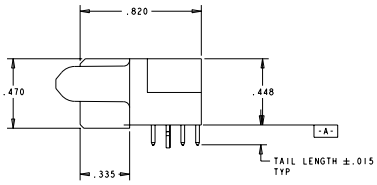
REVISIONS

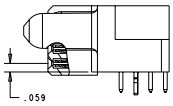
P	LTR	DESCRIPTION	DATE	DRN	APVD
	D5	REV PER ECR-10-008927	04JUN2010	IL	SY
	D6	ADDED NEW DASH NUMBER -40	10JUN2010	IL	SY
	E	REV PER ECR-10-012430	11JUN2010	IL	SY
	E1	REV PER ECR-10-013182	22JUN2010	OL	SY



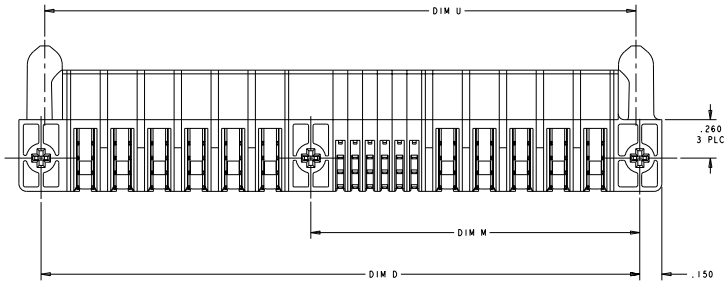
1. OPTIONAL CENTER MODULE, WITH Ø.150 THRU HOLE OR HOLD DOWN FEATURE.
2. "AMP", PART NUMBER, AND DATE CODE TO BE MARKED IN AREA SHOWN.
3. MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, BLACK, UL94 V-O
   SIGNAL CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
   POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
4. CONTACT PLATING: SIGNAL CONTACTS - .000050 MIN Ni UNDER ALL.
   .000030 MIN Au ON CONTACT AREA.
   .000100 MIN Sn AT PCB INTERFACE.
   POWER CONTACTS - .000050 MIN Ni UNDER ALL.
   .000030 MIN Au AT CONTACT AREA.
   .000100 MIN Sn AT PCB INTERFACE.
5. MECHANICAL CONNECTOR KEEP OUT ZONE.
6. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
7. PCB- ALL HOLE DIAMETERS ARE FINISHED DIMENSIONS.
8. PCB- Ø.0453 +/-.0010 DRILLED HOLES PLATED WITH .0003 MIN Sn OVER .001-.003 CU PLATING TO ACHIEVE A Ø.040±.003 HOLE.







SECTION Z-Z



THIS DRAWING IS A CONFIDENTIAL PROPERTY OF TYCO ELECTRONICS CORPORATION AND IS NOT TO BE REPRODUCED OR TRANSMITTED EXCEPT AS AUTHORIZED IN WRITING BY TYCO ELECTRONICS CORPORATION.	DRN R.GRZYBOWSKI 21FEB05	Tyco Electronics	Tyco Electronics Harrisburg, PA 17105-3608
	CHK W.PERCHERKE 21FEB05		
DIMENSIONS: INCHES	APVD W.PERCHERKE	NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- / 1 PLC ±- / 2 PLC ±.01 / 3 PLC ±.005 / 4 PLC ±.002 / ANGLES ±2°	PRODUCT SPEC 108-1973		
	APPLICATION SPEC 114-13038	SIZE A1 / CAGE CODE 00779 / DRAWING NO C-6450160	RESTRICTED TO -
MATERIAL 3	FINISH 4	WEIGHT -	
		CUSTOMER DRAWING	SCALE 1:1 / SHEET 1 OF 13 / REV E1

AMP 4805 REV 31MAR2000

Pro/ENGINEER DRAWING

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LOC	DIST
GP	00

REVISIONS

#	LTR	DESCRIPTION	DATE	DRN	APVD
	-	SEE SHEET 1	-	-	-

U	T	S	R	W	D	M	L	K	DESCRIPTION	PART NUMBER
2.400	.250	.250	1.550	.875	2.450	-	2.750	.450	2P + 24S + 4P	4-6450160-0
4.700	.250	.250	2.850	2.375	4.750	-	5.050	.450	8P + 16S + 8P	3-6450160-9
5.400	.300	.300	2.875	2.175	5.450	-	5.750	.475	6P + 24S + 9P	3-6450160-8
2.900	.250	.250	2.050	1.375	2.950	-	3.250	.450	4P + 24S + 4P	3-6450160-7
3.900	.250	.250	2.550	1.875	3.950	-	4.250	.450	6P + 24S + 6P	3-6450160-6
3.800	.250	.250	3.450	.875	3.850	-	4.150	.450	2P + 100S + 2P	3-6450160-4
3.700	.300	.200	2.700	2.025	3.750	-	4.050	.450	8P+24S+4ACP	3-6450160-3
2.800	.300	.250	2.075	1.375	2.850	-	3.150	.450	4P + 24S + 3ACP	3-6450160-2
1.700	.250	.250	1.350	.875	1.750	-	2.050	.450	2P + 16S + 2P	3-6450160-1
4.375	.300	.250	3.375	2.375	3.450	2.950	4.725	.450	8P+24S+1M+4ACP	3-6450160-0
4.100	.250	.300	2.250	1.575	4.150	-	4.450	.475	4ACP + 24S + 8P	2-6450160-9
2.600	.200	.200	1.900	1.225	2.650	-	2.950	.450	4HDP + 24S + 4HDP	2-6450160-6
2.000	.250	.250	1.650	.925	2.050	-	2.350	.450	2P + 24S + 2P	2-6450160-5
4.000	.250	.250	2.650	1.675	4.050	2.225	4.350	.450	5P + 24S + 1M + 6P	2-6450160-0
3.300	.250	.250	2.450	1.875	3.350	-	3.650	.450	6P + 20S + 4P	1-6450160-9
4.675	.300	.250	3.950	3.375	4.725	-	5.025	.450	12P + 20S + 3ACP	1-6450160-8
1.200	-	-	1.100	.625	1.250	-	1.550	.450	1P + 16S + 1P	1-6450160-4
3.250	.250	.250	2.900	1.125	3.300	-	3.600	.450	3P + 68S + 2P	1-6450160-3
.900	-	-	-	.375	.950	-	1.250	-	0P + 24S + 0P	1-6450160-2
1.900	-	-	.975	.625	1.950	-	2.250	.450	1P + 12S + 5P	1-6450160-1
1.900	.250	.250	1.550	.875	1.950	-	2.250	.450	2P + 24S + 2P	1-6450160-0
3.300	.250	.250	2.450	1.875	3.350	-	3.650	.450	6P + 20S + 4P	6450160-9
2.400	.250	.250	1.800	1.125	2.450	-	2.750	.450	3P + 24S + 3P	6450160-8
3.050	.250	.300	1.950	1.275	3.100	-	3.400	.475	3ACP + 24S + 5P	6450160-7
7.400	.250	.250	5.050	2.875	7.450	-	7.750	.450	10P + 84S + 10P	6450160-6
4.000	.250	.250	2.650	1.675	4.050	2.225	4.350	.450	5P + 24S + 1M + 6P	6450160-5
4.000	.250	.250	2.650	1.675	4.050	2.225	4.350	.450	5P + 24S + 1M + 6P	6450160-4
1.575	-	-	1.425	.700	1.625	-	1.925	.475	1P + 24S + 1P	6450160-3
1.575	-	-	1.425	.700	1.625	-	1.925	.475	1P + 24S + 1P	6450160-2
5.100	.250	.250	3.250	2.375	5.150	-	5.450	.450	8P + 32S + 8P	6450160-1

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DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.002
ANGLES ±2°

MATERIAL -
FINISH -

DWN B.GRZYBOWSKI 21FEB05
CHK W.PERCHERKE 21FEB05
APD W.PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics
Tyco Electronics
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450160	-

CUSTOMER DRAWING SCALE 1:1 SHEET 2 OF 13 REV E1

AMP 4805 REV 31MAR2000

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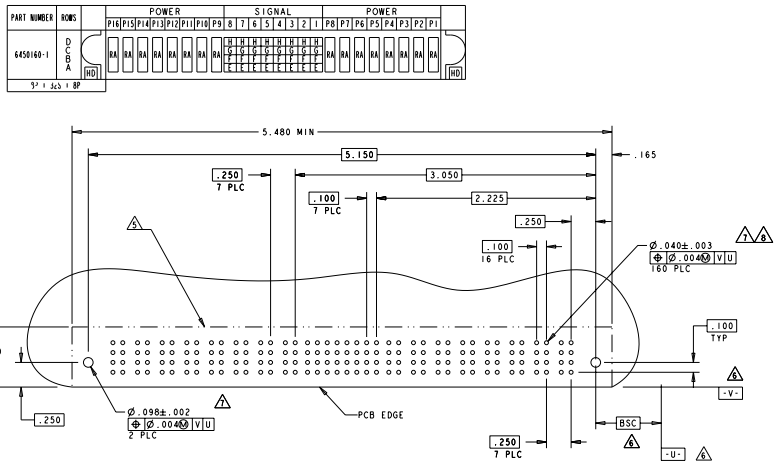
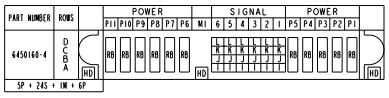
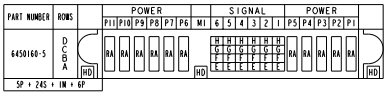
LOC	DIST
GP	00

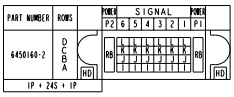
REVISIONS

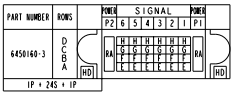
#	LTR	DESCRIPTION	DATE	DRN	APVD
	-	SEE SHEET 1	-	-	-

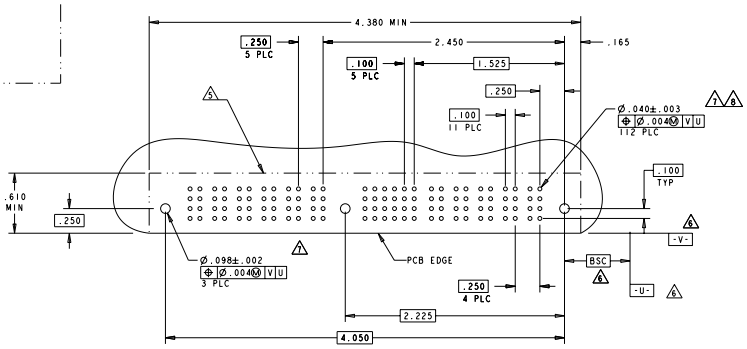


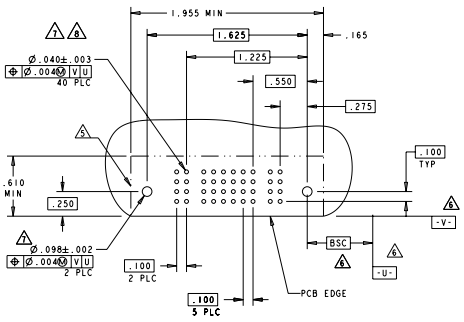












RN	.090	STD
RM	.135	STD
RA	.135	MFBL
RB	.090	MFBL
CODE	TAIL LENGTH	DESCRIPTION
POWER CONTACT		

L	.090	D
K	.090	C
J	.090	B
I	.090	A
H	.135	D
G	.135	C
F	.135	B
E	.135	A
CODE	TAIL LENGTH	ROW
SIGNAL CONTACT		

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DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.002
ANGLES ±2°

MATERIAL :
FINISH :

DRN B.GRZYBOWSKI ZITEB05
CHK W.PERCHERKE ZITEB05
APVD W.PERCHERKE
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics
Tyco Electronics
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-6450160 | RESTRICTED TO -

CUSTOMER DRAWING | SCALE 1:1 | SHEET 3 OF 13 | REV E1

AMP 4805 REV 31MAR2000

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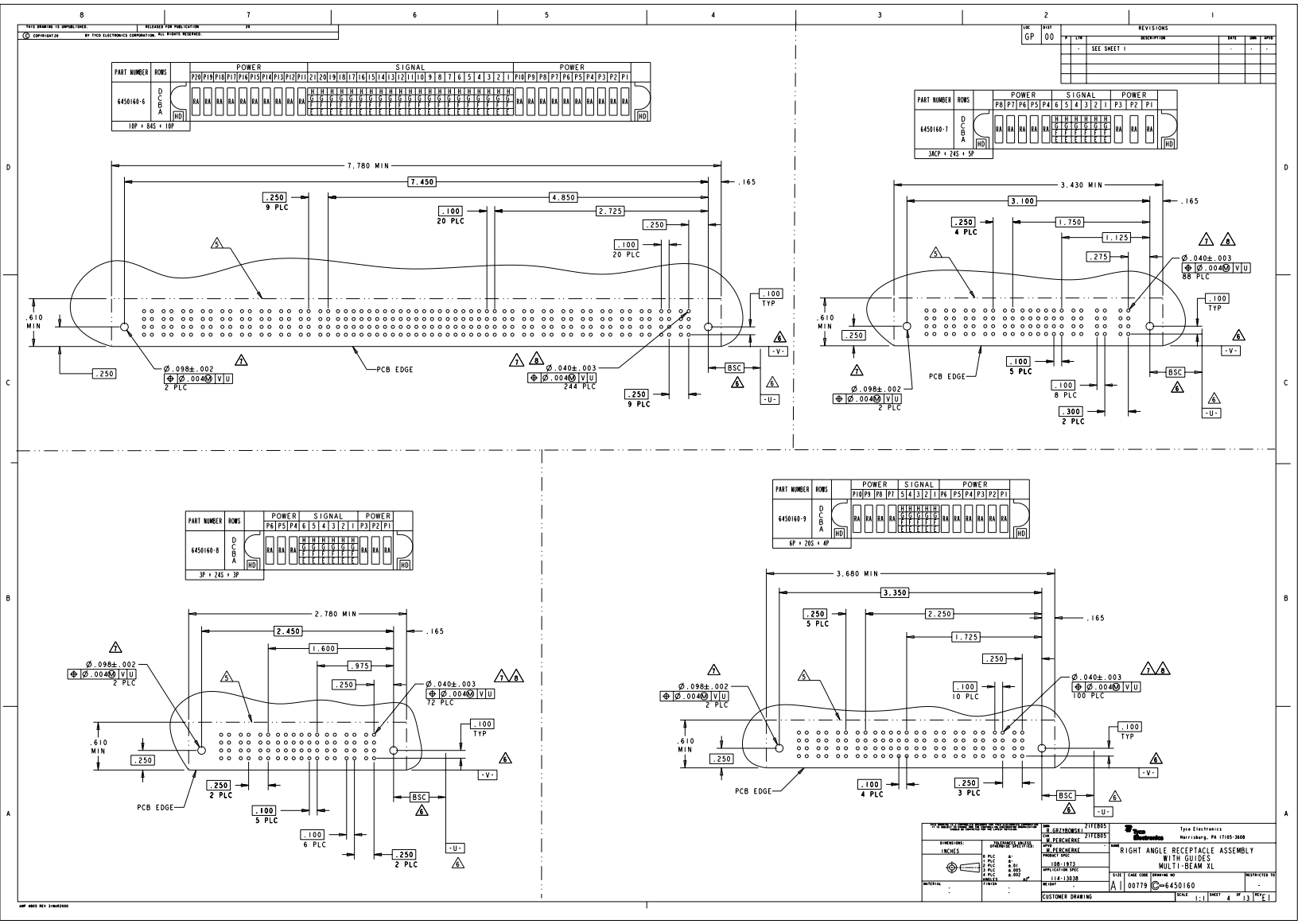

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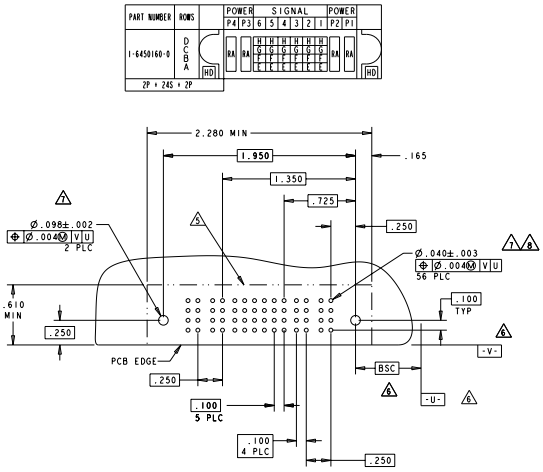
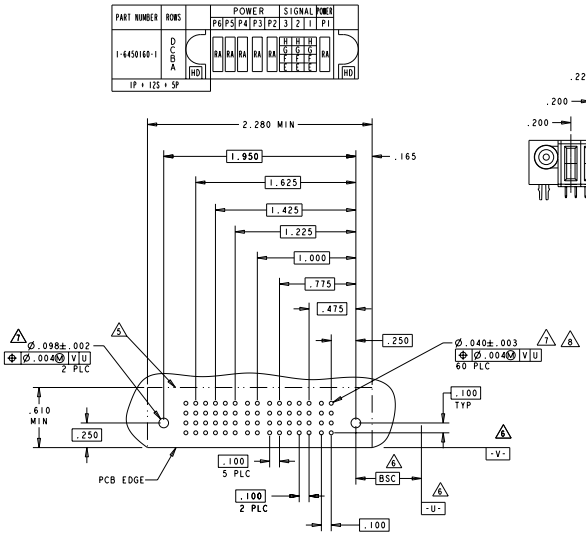
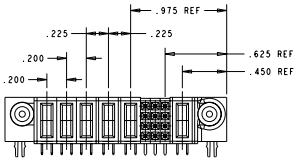
LOC	DIST
GP	00

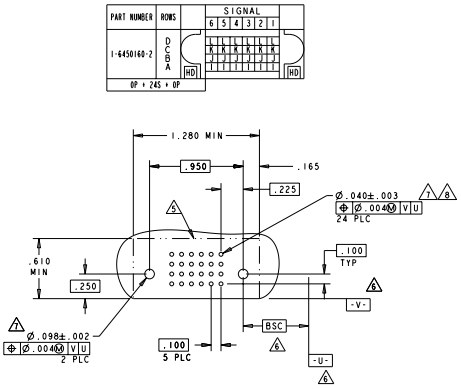
REVISIONS

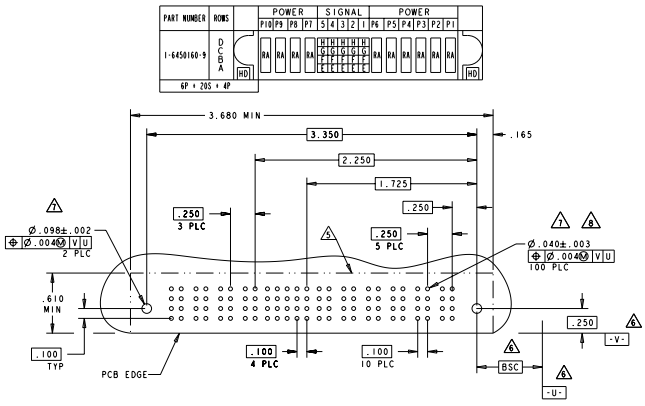
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-











DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±-; 1 PLC ±-; 2 PLC ±.01; 3 PLC ±.005; 4 PLC ±.002; ANGLES ±2°	MATERIAL - FINISH -

DRN B.GRZYBOWSKI 21FEB05
CHK W.PERCHERKE 21FEB05
APD W.PERCHERKE
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-6450160 | RESTRICTED TO -

CUSTOMER DRAWING | SCALE 1:1 | SHEET 5 OF 13 | REV E1

AMP 4805 REV 31MAR2000

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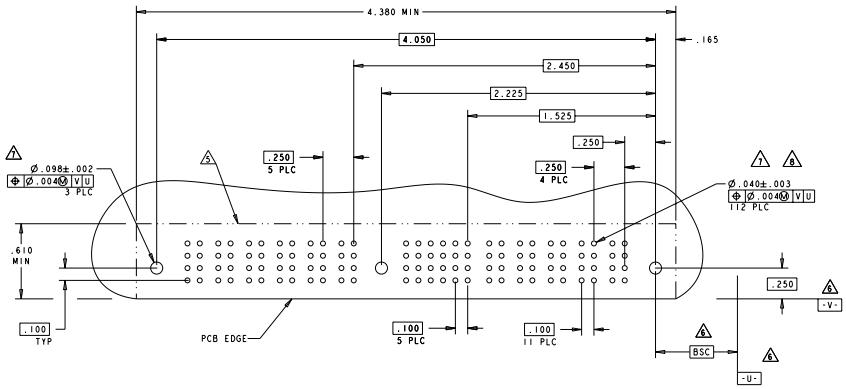
LOC	DIST
GP	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

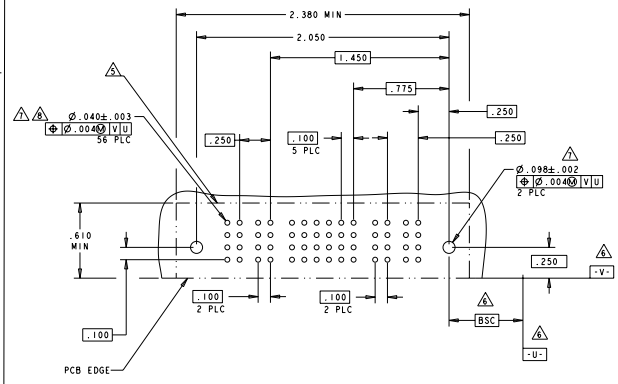
PART NUMBER	ROWS	POWER							SIGNAL						POWER					
		P11	P10	P9	P8	P7	P6	M1	6	5	4	3	2	1	P5	P4	P3	P2	P1
2-6450160-0	D C B A	RA	RA	RA	RA	RA	RA	HD	HHHHHH PPPPPP TTTTTT						RA	RA	RA	RA	HD

5P + 24S + 1M + 6P



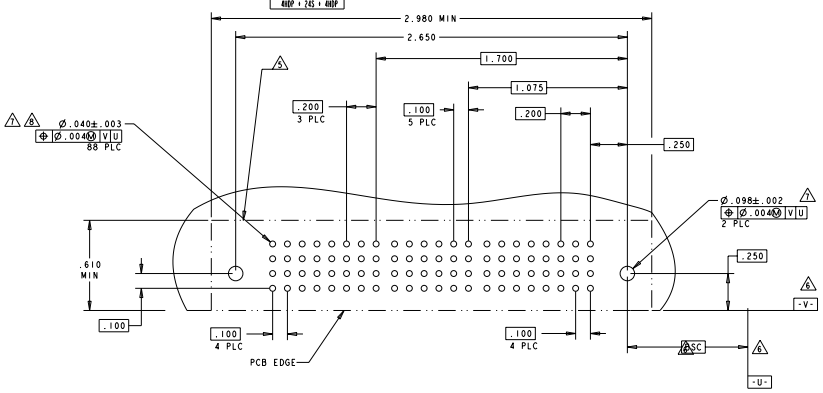
PART NUMBER	ROWS	POWER		SIGNAL						POWER	
		P4	P3	6	5	4	3	2	1	P2	P1
2-6450160-5	D C B A	RM	RM	LKJ LKJ LKJ LKJ LKJ LKJ						RM	RM

2P + 24S + 2P



PART NUMBER	ROWS	POWER				SIGNAL						POWER			
		P8	P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1
2-6450160-6	D C B A	RM	RM	RM	RM	HHHHHH GGGGGG FFFFFF EEEEEE						RM	RM	RM	RM

48DP + 24S + 48DP



DRAWN	B.GRZYBOWSKI	21FEB05	Tyco Electronics Harrisburg, PA 17105-3608
CHK	W.PERCHERKE	21FEB05	
APVD	W.PERCHERKE		NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL
PRODUCT SPEC	108-1973		
APPLICATION SPEC	114-13038		
WEIGHT	-		SIZE A1 CAGE CODE 00779 DRAWING NO C-6450160 RESTRICTED TO -
CUSTOMER DRAWING			SCALE 1:1 SHEET 6 OF 13 REV E1

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.002
ANGLES ±0°

MATERIAL -
FINISH -

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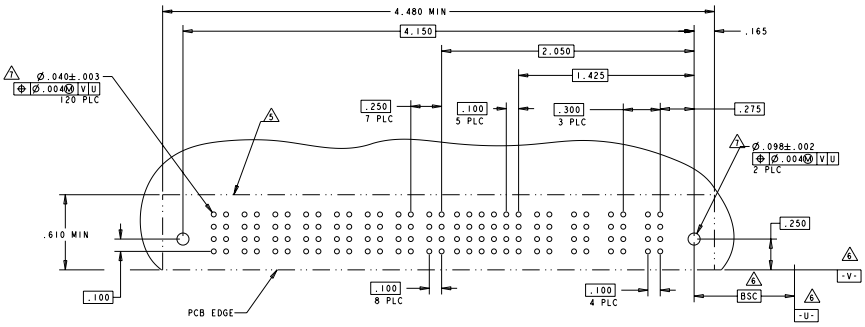
LOC GP DIST 00

REVISIONS

#	LTR	DESCRIPTION	DATE	DRN	APVD
	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS
2-6450160-9	D C B A
4ACP + 24S + 8P	



PART NUMBER	ROWS
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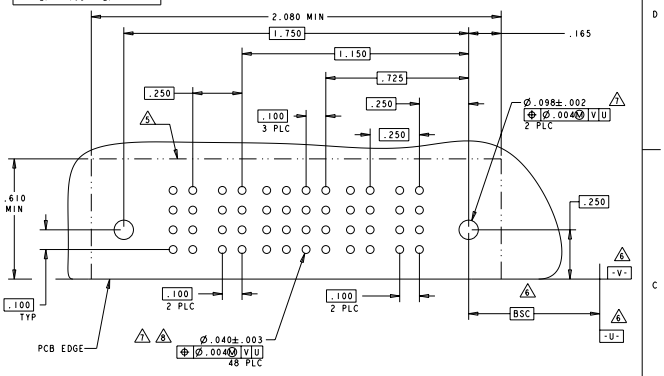
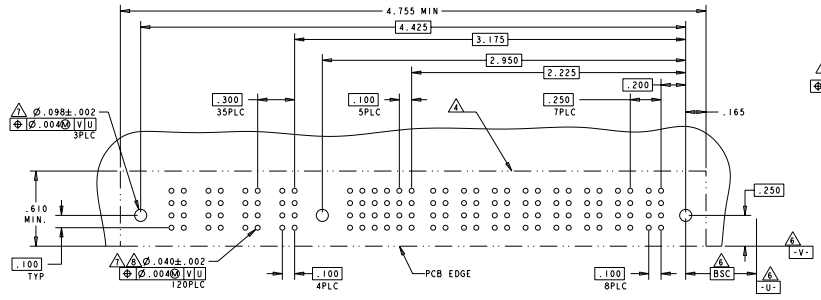
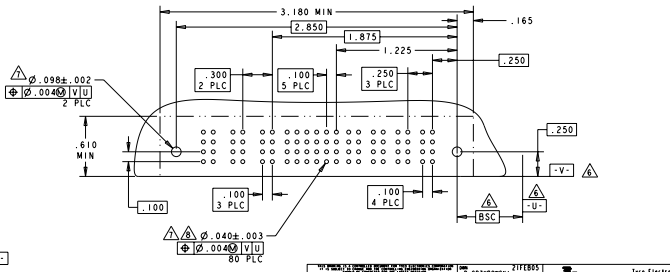
2P + 16S + 2P	



PART NUMBER	ROWS
3-6450160-0	D C B A
8P + 24S + 1M + 4ACP	



PART NUMBER	HOUSING P/N	ROWS
3-6450160-2	3-1450190-2	D C B A
4P + 24S + 3ACP		



DRN	R.GRZYBOWSKI	21FEB05
CHK	W.PERCHERKE	21FEB05
APD	W.PERCHERKE	
PRODUCT SPEC	108-1973	
APPLICATION SPEC	114-13038	
WEIGHT	-	

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.002
ANGLES ±2°

MATERIAL -
FINISH -

CUSTOMER DRAWING

Tyco Electronics
Harrisburg, PA 17105-3608

NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450160	-

SCALE 1:1 SHEET 7 OF 13 REV E1

AMP 4805 REV 31MAR2000

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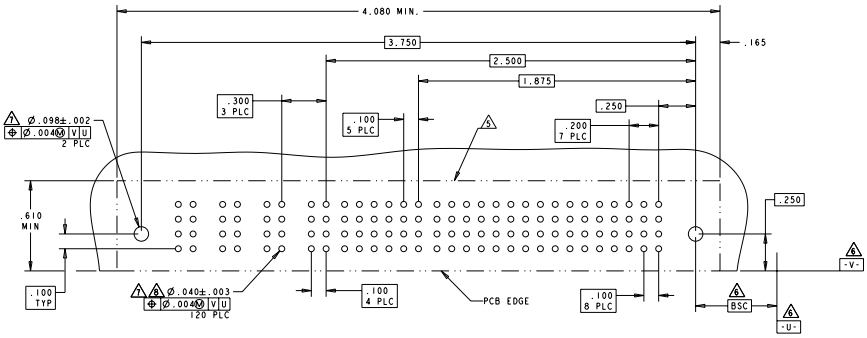
LOC	DIST
GP	00

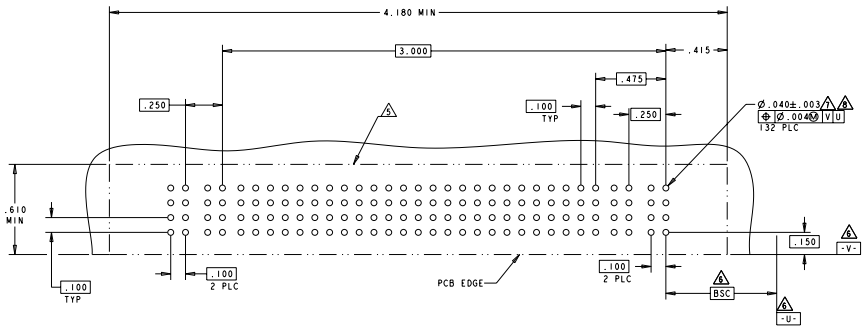
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS	POWER				SIGNAL						POWER							
		P12	P11	P10	P9	6	5	4	3	2	1	P8	P7	P6	P5	P4	P3	P2	P1
3-6450160-3	D C B A	RM	RM	RM	RM	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	RM	RM	RM	RM	RM	RM	RM	RM
8P + 24S + 4ACP																			



PART NUMBER	ROWS	POWER		SIGNAL																								POWER	
		P4	P3	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	P2	P1
3-6450160-4	D C B A	RM	RM	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	HGFE	RM	RM
2P + 100S + 2P																														



DRN	R.GRZYBOWSKI	27FEB05
CHK	W.PERCHERKE	27FEB05
APVD	W.PERCHERKE	
PRODUCT SPEC	108-1973	
APPLICATION SPEC	114-13038	
WEIGHT	-	

Tyco Electronics
Harrisburg, PA 17105-3608

NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-6450160 | RESTRICTED TO -

CUSTOMER DRAWING | SCALE 1:1 | SHEET 8 OF 13 | REV E1

DIMENSIONS: INCHES
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.002
ANGLES ±2°
MATERIAL -
FINISH -

AMP 4805 REV 31MAR2000

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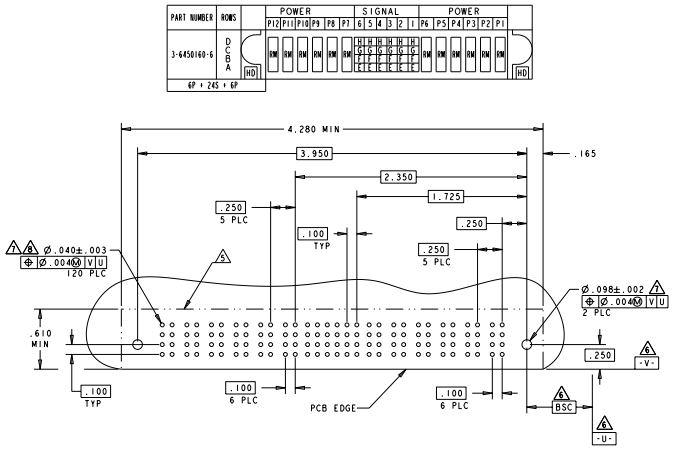
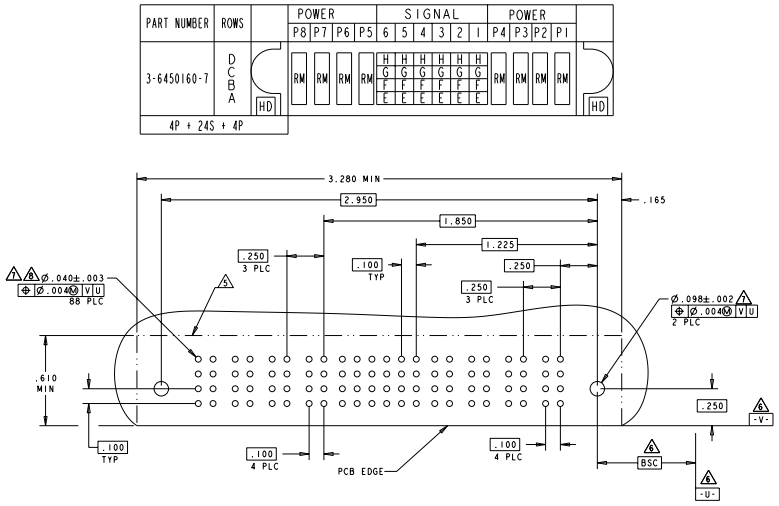
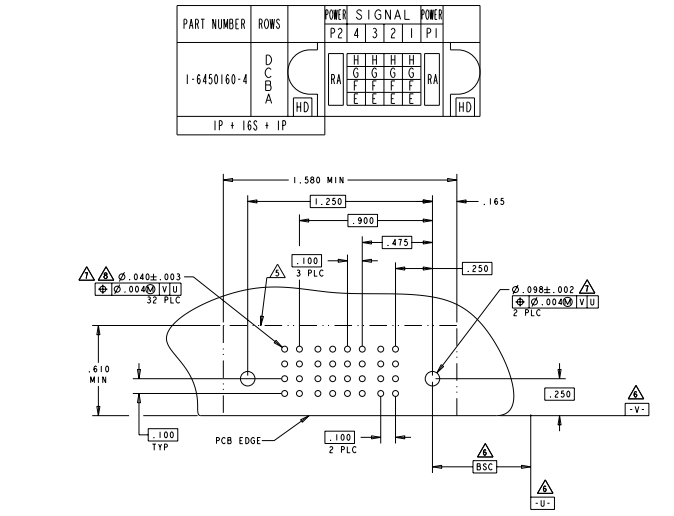
LOC	DIST
GP	00

REVISIONS

#	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-







DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±- 2 PLC ±.01 3 PLC ±.005 4 PLC ±.002 ANGLES ±2°	MATERIAL - FINISH -

DRN R.GRZYBOWSKI 21FEB05
CHK W.PERCHERKE 21FEB05
APD W.PERCHERKE
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -
CUSTOMER DRAWING

Tyco Electronics
Tyco Electronics
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450160	-

SCALE 1:1 SHEET 9 OF 13 REV E1

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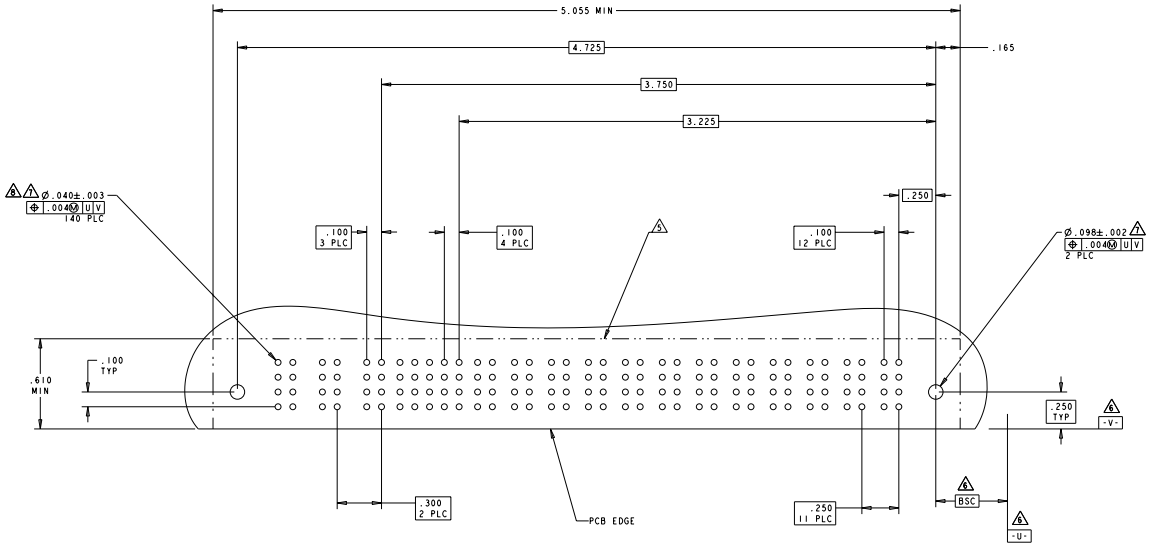
LOC	DIST
GP	00

REVISIONS

#	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS	AC POWER			SIGNAL					POWER											
		P15	P14	P13	5	4	3	2	1	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1
1-6450160-8	D	RA	RA	RA	H	H	H	H	H	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA
	C				G	G	G	G	G												
	B				F	F	F	F	F												
	A				E	E	E	E	E												
12P + 20S + 3ACP		HD																			HD



DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±: 1 PLC ±: 2 PLC ±.01 3 PLC ±.005 4 PLC ±.002 ANGLES ±2°	MATERIAL: FINISH:

DWN	R.GRZYBOWSKI	27FEB05
CHK	W.PERCHERKE	27FEB05
APD	W.PERCHERKE	
PRODUCT SPEC	108-1973	
APPLICATION SPEC	114-13038	
WEIGHT	-	

Tyco Electronics
Harrisburg, PA 17105-3608

NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450160	-

CUSTOMER DRAWING | SCALE 1:1 | SHEET 10 OF 13 | REV E1

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GP	00

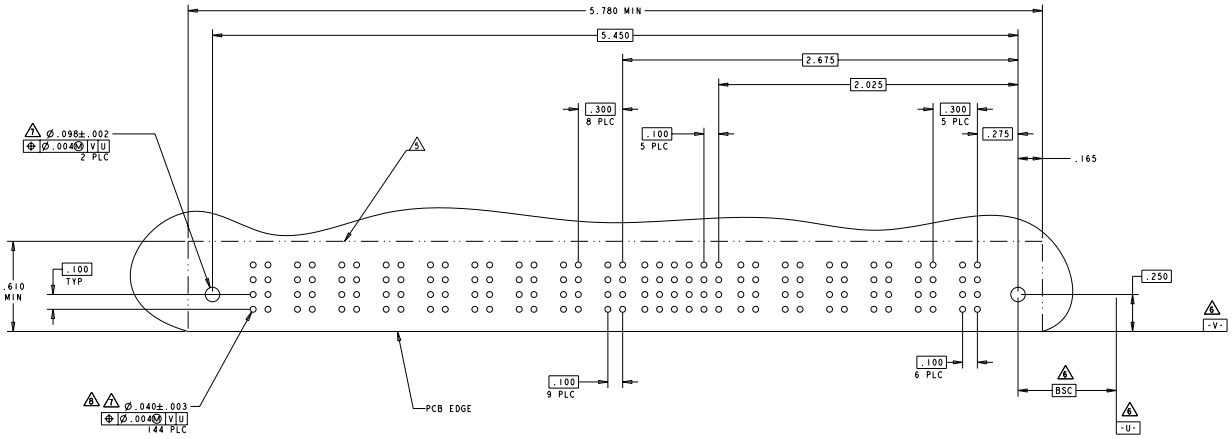
REVISIONS

#	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS
3-6450160-8	D C B A
6P + 24S + 9P	

	POWER									SIGNAL						POWER						
	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	P6	P5	P4	P3	P2	P1	
		RM	RM	RM		RM	RM	RM			H	H		H	H	RA		RM	RM	RM		
											G	G		G	G							
											F	F		F	F							
											E	E		E	E							
HD																						HD

E



DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±: 1 PLC ±: 2 PLC ±.01 3 PLC ±.005 4 PLC ±.002 ANGLES ±2°	MATERIAL: - FINISH: -

DWN: R.GRZYBOWSKI 27FEB05
CHK: W.PERCHERKE 27FEB05
APD: W.PERCHERKE
PRODUCT SPEC: 108-1973
APPLICATION SPEC: 114-13038
WEIGHT: -

Tyco Electronics
Harrisburg, PA 17105-3608

NAME: RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE: A1 | CAGE CODE: 00779 | DRAWING NO: C-6450160 | RESTRICTED TO: -

CUSTOMER DRAWING | SCALE: 1:1 | SHEET 1 OF 13 | REV: E1

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LOC	DIST
GP	00

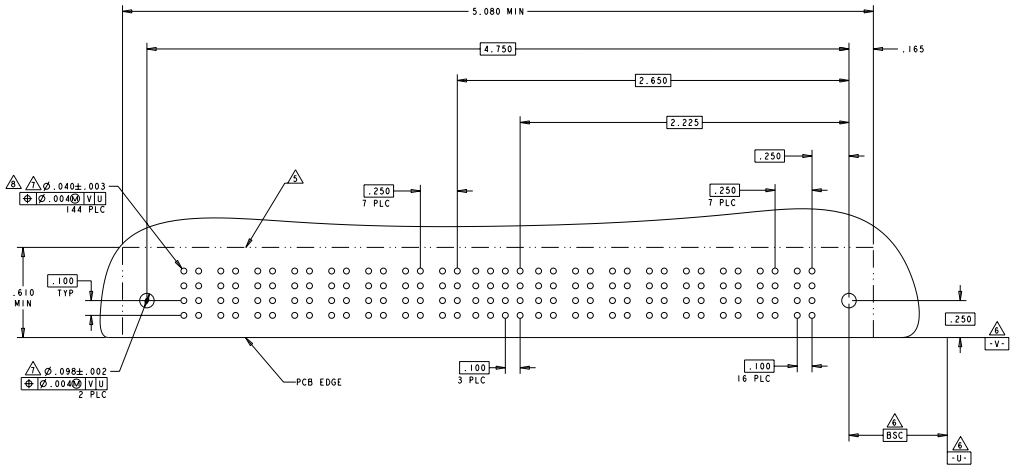
REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		POWER								SIGNAL				POWER								
			P16	P15	P14	P13	P12	P11	P10	P9	4	3	2	1	P8	P7	P6	P5	P4	P3	P2	P1	
3-6450160-9	D		RM	RM	RM	RM	RM	RM	RM	RM	H	H	H	H	RM	RM	RM	RM	RM	RM	RM	RM	
	C										G	G	G	G									
	B										F	F	F	F									
	A	HD									E	E	E	E									HD

8P + 16S + 8P

D5



DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±-; 1 PLC ±-; 2 PLC ±.01; 3 PLC ±.005; 4 PLC ±.002; ANGLES ±2°	MATERIAL -
FINISH -		

DWN R.GRZYBOWSKI 21FEB05
CHK W.PERCHERKE 21FEB05
APPD W.PERCHERKE
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-6450160 | RESTRICTED TO -

CUSTOMER DRAWING | SCALE 1:1 | SHEET 12 OF 13 | REV E1

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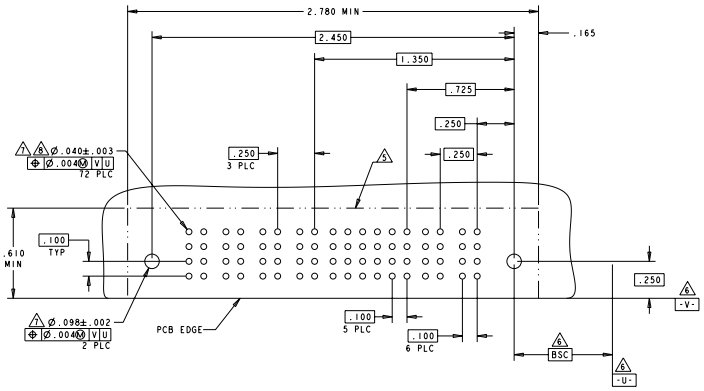
LOC	DIST
GP	00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

(E)

PART NUMBER	ROWS		POWER				SIGNAL						POWER		
			P6	P5	P4	P3	6	5	4	3	2	1	P2	P1	
4-6450160-0	D		RM	RM	RM	RM	H	H	H	H	H	H	RM	RM	
	C						G	G	G	G	G	G			
	B						F	F	F	F	F	F			
	A	HD					E	E	E	E	E	E			HD
2P + 24S + 4P															



DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±- 2 PLC ±.01 3 PLC ±.005 4 PLC ±.002 ANGLES ±2°	MATERIAL - FINISH -

DWN Z1TEB05 — R.GRZYBOWSKI
CHK Z1TEB05 — W.PERCHERKE
APD W.PERCHERKE
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

Tyco Electronics
Tyco Electronics
Harrisburg, PA 17105-3608

NAME RIGHT ANGLE RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450160	-

CUSTOMER DRAWING — SCALE 1:1 — SHEET 13 OF 13 — REV E1

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