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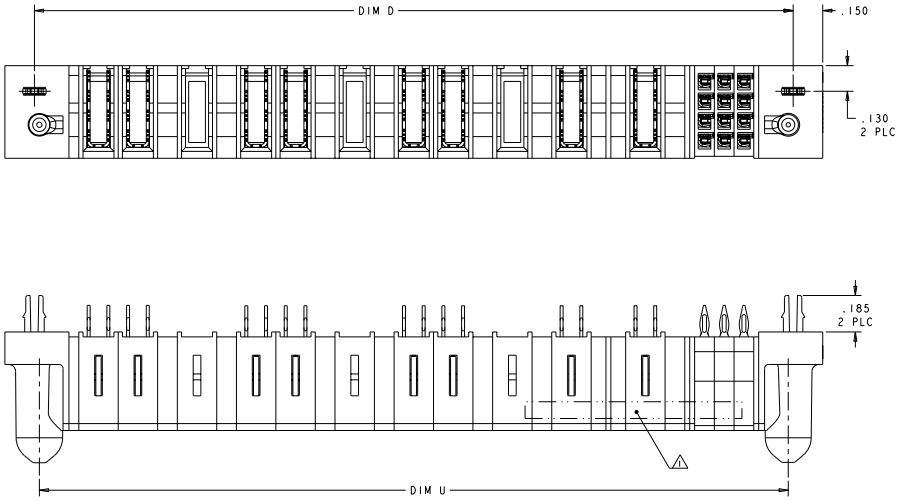
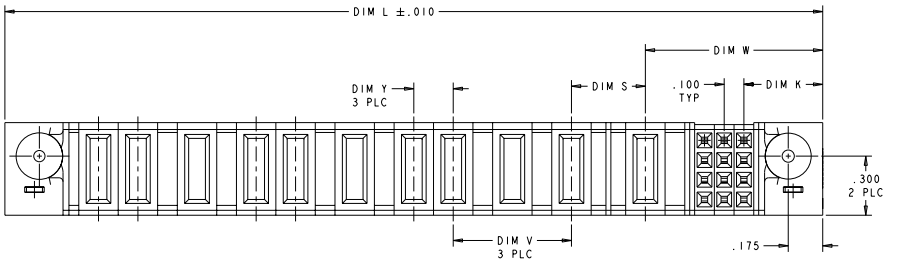
LOC	DIST
GP	00

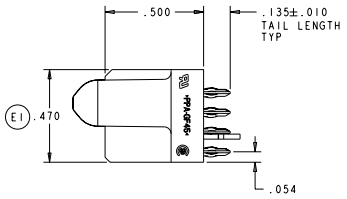
REVISIONS

P	LTR	DESCRIPTION	DATE	DRN	APVD
	E1	REV PER ECR-10-022629	03NOV2010	LW	JHC



1. "AMP", PART NUMBER, AND DATE CODE TO BE MARKED IN AREA SHOWN.
2. MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, UL94 V-O.
   SIGNAL CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
   POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
3. 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 ON CONTACT AREA.
   .000100 MIN Sn AT PCB INTERFACE
4. MECHANICAL CONNECTOR KEEP OUT ZONE.
5. DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.
6. PCB - ALL HOLE DIAMETERS ARE FINISHED HOLE SIZES.
7. PCB - .0453 +/-.0010 DRILLED HOLES PLATED WITH .0003 MIN Sn OVER .001 TO .003 PLATING TO ACHIEVE A .040 DIA. HOLE.
8. FOR DETAIL DIM PLEASE REFER TO TABLE





THIS DRAWING IS A CONVERSION AND THERE MAY BE DIMENSIONS, NOTES AND SPECIFICATIONS NOT SHOWN OR INCLUDED ON THE ORIGINAL DRAWING.	DRN R.GRZYBOWSKI 02MAY05	Tyco Electronics Corporation Harrisburg, PA 17105-3608	
DIMENSIONS: INCHES	CHK W.PERCHERKE 02MAY05	NAME VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±: 1 PLC ±: 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±2°	APD W.PERCHERKE 02MAY05	PRODUCT SPEC 108-1973	
		APPLICATION SPEC 114-13038	SIZE A1 / CAGE CODE 00779 / DRAWING NO C-6450541 / RESTRICTED TO -
MATERIAL 2	FINISH 3	WEIGHT -	
		CUSTOMER DRAWING	SCALE 2:1 / SHEET 1 OF 11 / REV E1

AMP 4005 REV 31MAR2000
Pro/ENGINEER DRAWING

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LOC	DIST
GP	00

REVISIONS

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

DIM Y	DIM V	DIM U	DIM S	DIM K	DIM L	DIM W	DIM D	DESCRIPTION	PART NUMBER
-	-	1.100	-	.375	1.450	-	1.150	32S	2-6450541-4
-	-	3.800	.250	.375	4.150	3.450	3.850	120S + 2P	2-6450541-3
-	-	1.500	.250	.375	1.850	0.625	1.550	8S + 4P	2-6450541-2
-	-	1.600	.250	.375	1.950	0.725	1.650	12S + 4P	2-6450541-1
-	-	6.075	.200	.375	6.425	1.375	6.125	36S + 24P	2-6450541-0
-	-	4.025	8	.375	4.375	2.125	4.075	60S + 8P	1-6450541-9
-	-	2.925	.200	.375	3.275	1.025	2.975	24S + 10P	1-6450541-8
-	-	2.400	.250	.375	2.750	1.050	-	24S + 6P	1-6450541-7
-	-	1.750	.200	.375	2.100	.650	-	8S + 6HDP	1-6450541-4
-	-	0.950	.200	.375	1.300	.650	-	8S + 2HDP	1-6450541-3
-	-	1.700	.250	.375	2.050	.850	-	16S + 4P	1-6450541-2
-	-	2.850	.200	.375	3.200	.950	-	20S + 10HDP	6450541-7
-	-	2.900	.250	.375	3.250	1.050	-	24S + 8P	6450541-5
-	-	2.400	.250	.375	2.750	1.050	-	24S + 6P	6450541-4
-	-	1.900	.250	.375	2.250	1.050	-	24S + 4P	6450541-3
-	-	4.400	.250	.375	4.750	1.050	-	24S + 14P	6450541-2
.200	.600	3.800	.375	.400	4.150	.900	3.850	12S + 11P	6450541-1

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±:
1 PLC ±:
2 PLC ±: 0.01
3 PLC ±: 0.005
4 PLC ±: 0.0020
ANGLES ±: 30'

MATERIAL: -
FINISH: -

DWN R. GRZYBOWSKI 02MAY05
CHK W. PERCHERKE 02MAY05
APD W. PERCHERKE 02MAY05
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

CUSTOMER DRAWING

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450541	-

SCALE 2:1 SHEET 2 OF 11 REV E1

AMP 4805 REV 31MAR2000

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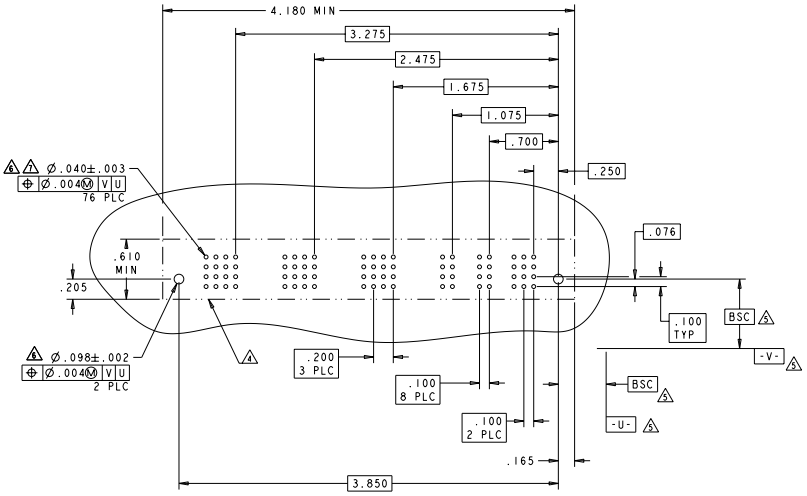
LOC	DIST
GP	00

REVISIONS

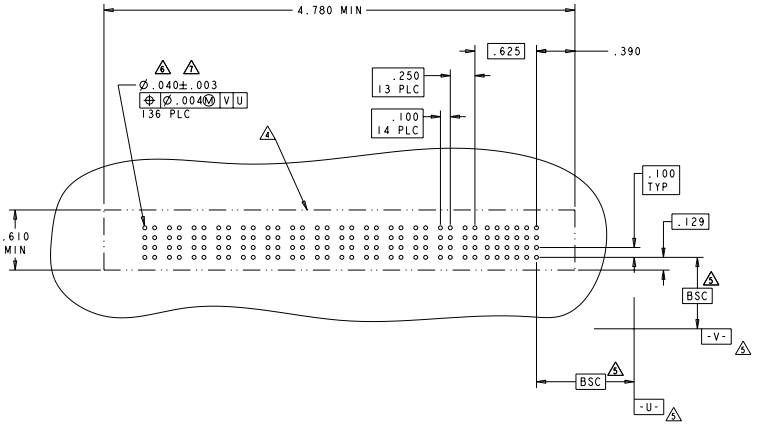
#	LTR	DESCRIPTION	DATE	DRN	APVD
	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS	POWER											SIGNAL		
		P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	3	2	1
6450541-1	D	GP	GP		GP	GP		GP	GP		GP	GP	AP	AP	AP
	C												AP	AP	AP
	B												AP	AP	AP
	A												AP	AP	AP
12S + 11P		HD													HD

NO CONTACTS LOADED



ASSY PART NUMBER	ROWS	POWER													SIGNAL					
		P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	6	5	4	3	2	1
6450541-2	D	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	GP	AP	AP	AP	AP	AP	AP
	C															AP	AP	AP	AP	AP	AP
	B															AP	AP	AP	AP	AP	AP
	A															AP	AP	AP	AP	AP	AP
24S + 14P																					



TAIL LENGTH	CODE	DESCRIPTION
.165	HS	STD POWER PRESS FIT CONTACT
.165	BP	SIGNAL PRESS FIT CONTACT
.135	GS	STD POWER PRESSFIT CONTACT
.135	GP	MFBL POWER PRESSFIT CONTACT
.135	AP	SIGNAL PRESSFIT CONTACT

CONTACT TABLE

DRN	R.GRZYBOWSKI	02MAY05
CHK	W.PERCHERKE	02MAY05
APD	W.PERCHERKE	02MAY05
PRODUCT SPEC	108-1973	
APPLICATION SPEC	114-13038	
WEIGHT	-	

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME: VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450541	-

CUSTOMER DRAWING — SCALE 2:1 — SHEET 3 OF 11 — REV E1

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°
FINISH -

MATERIAL -

AMP 4805 REV 31MAR2000

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LOC	DIST
GP	00

REVISIONS

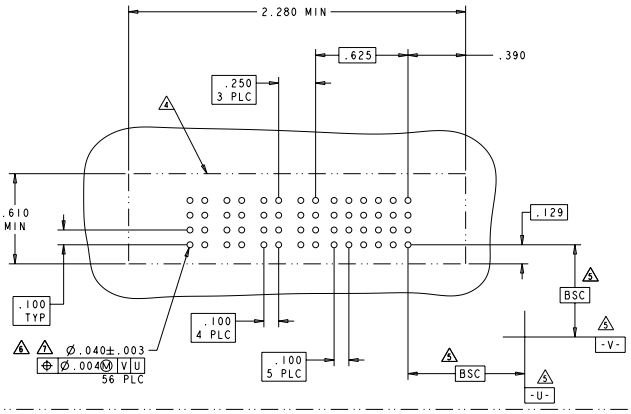
#	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

ASSY PART NUMBER	ROWS
6450541-3	D C B A
24S + 4P	

POWER: P4 P3 P2 P1 — SIGNAL: 6 5 4 3 2 1

GP GP GP GP

AP AP AP AP AP AP
AP AP AP AP AP AP
AP AP AP AP AP AP
AP AP AP AP AP AP

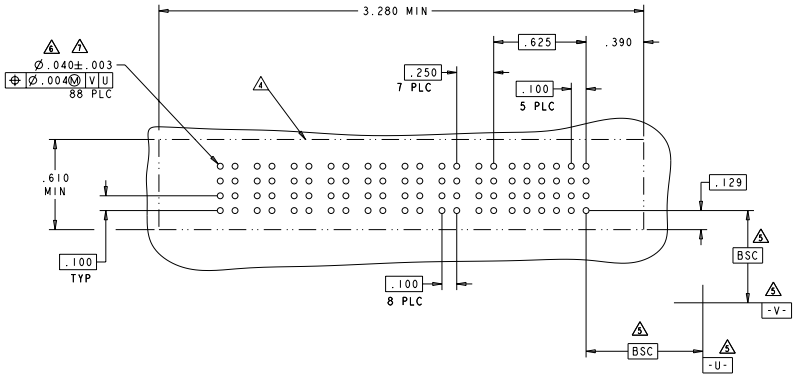


PART NUMBER	ROWS
6450541-5	D C B A
24S + 8P	

POWER: P8 P7 P6 P5 P4 P3 P2 P1 — SIGNAL: 6 5 4 3 2 1

GP GP GP GP GP GP GP GP

AP AP AP AP AP AP
AP AP AP AP AP AP
AP AP AP AP AP AP
AP AP AP AP AP AP

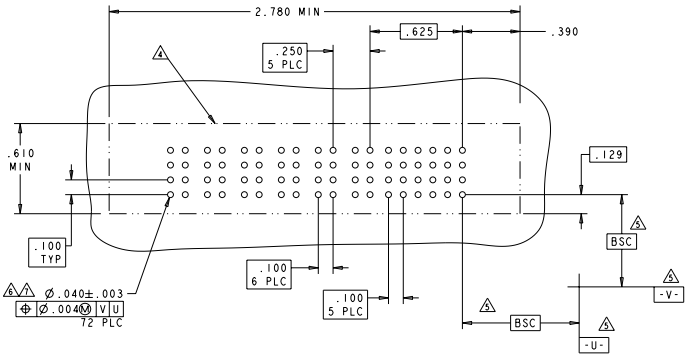


ASSY PART NUMBER	ROWS
6450541-4	D C B A
24S + 6P	

POWER: P6 P5 P4 P3 P2 P1 — SIGNAL: 6 5 4 3 2 1

GP GP GP GP GP GP

AP AP AP AP AP AP
AP AP AP AP AP AP
AP AP AP AP AP AP
AP AP AP AP AP AP



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	CHK M.PERCHERKE 02MAY05		
DIMENSIONS: INCHES	APD M.PERCHERKE 02MAY05	NAME VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±: 1 PLC ±: 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±2°	PRODUCT SPEC 108-1973		
	APPLICATION SPEC 114-13038	SIZE A1	CAGE CODE 00779 DRAWING NO C-6450541 RESTRICTED TO -
MATERIAL -	WEIGHT -		
FINISH -	CUSTOMER DRAWING	SCALE 2:1 SHEET 4 OF 11 REV E1	

AMP 4805 REV 31MAR2000

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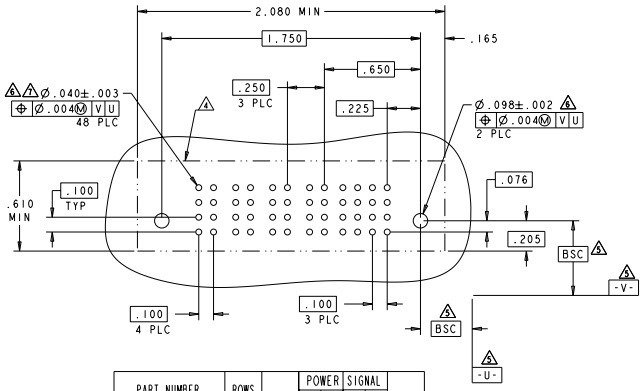
LOC GP DIST 00

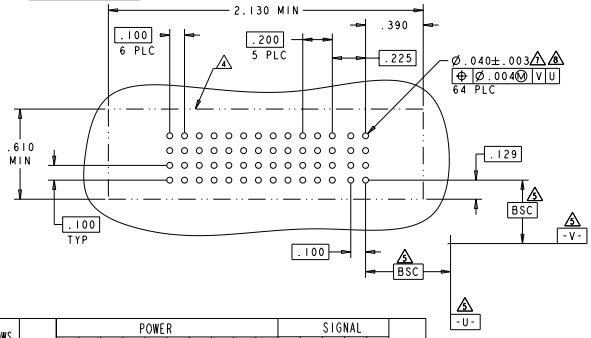
REVISIONS

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

PART NUMBER	ROWS	POWER				SIGNAL			
		P4	P3	P2	P1	4	3	2	1
1-6450541-2	D	GS	GS	GS	GS	AP	AP	AP	AP
	C					AP	AP	AP	AP
	B					AP	AP	AP	AP
	A					AP	AP	AP	AP
16S + 4P		HD							HD

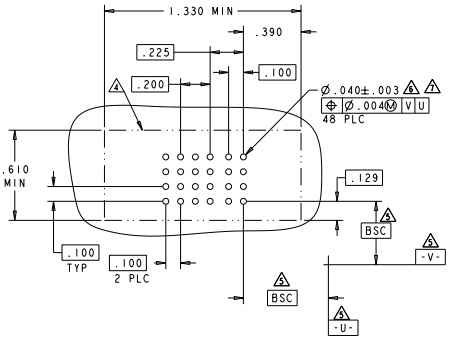


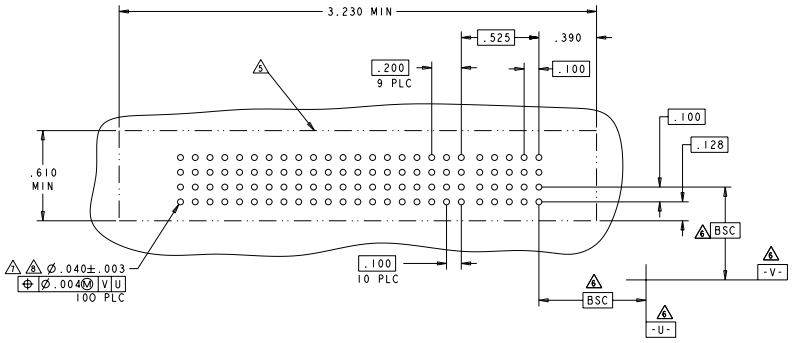
PART NUMBER	ROWS	POWER						SIGNAL	
		P6	P5	P4	P3	P2	P1	2	1
1-6450541-4	D	HS	HS	HS	HS	HS	HS	BP	BP
	C							BP	BP
	B							BP	BP
	A							BP	BP
8S + 6HDP									



PART NUMBER	ROWS	POWER										SIGNAL				
		P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	5	4	3	2	1
6450541-7	D	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	AP	AP	AP	AP	AP
	C											AP	AP	AP	AP	AP
	B											AP	AP	AP	AP	AP
	A											AP	AP	AP	AP	AP
20S + 10HDP																

PART NUMBER	ROWS	POWER		SIGNAL	
		P2	P1	2	1
1-6450541-3	D	HS	HS	BP	BP
	C			BP	BP
	B			BP	BP
	A			BP	BP
8S + 2HDP					





DRN: R. GRZYBOWSKI 02MAY05	Tyco Electronics Corporation Harrisburg, PA 17105-3608	
CHK: W. PERCHERKE 02MAY05		
APVD: W. PERCHERKE 02MAY05	NAME: VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL	
PRODUCT SPEC: 108-1973		
APPLICATION SPEC: 114-13038	SIZE: A1 CAGE CODE: 00779 DRAWING NO: C-6450541	RESTRICTED TO: -
WEIGHT: -	SCALE: 2:1 SHEET 5 OF 11 REV: E1	
CUSTOMER DRAWING		

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±:
1 PLC ±:
2 PLC ±: 0.01
3 PLC ±: 0.005
4 PLC ±: 0.0025
ANGLES ±: 2°

MATERIAL:
FINISH:

AMP 4805 REV 31MAR2000

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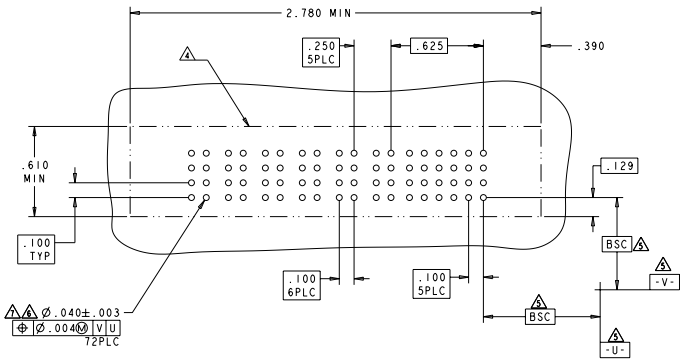
LOC	DIST
GP	00

REVISIONS

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

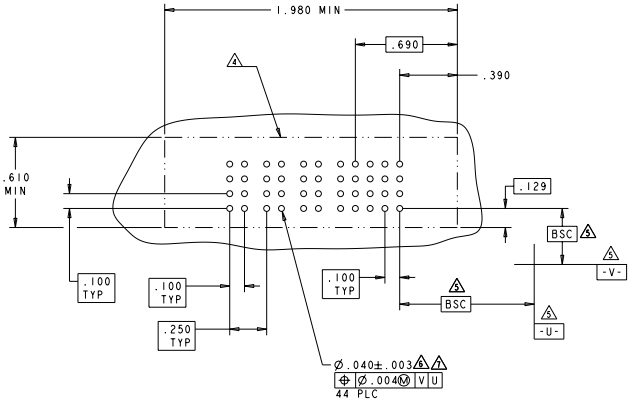
ASSY PART NUMBER	ROWS
1-6450541-7	D C B A
24S + 6P	

POWER							SIGNAL					
P6	P5	P4	P3	P2	P1		6	5	4	3	2	1
GS	GS	GS	GS	GS	GS		AP	AP	AP	AP	AP	AP
							AP	AP	AP	AP	AP	AP
							AP	AP	AP	AP	AP	AP
							AP	AP	AP	AP	AP	AP



PART NUMBER	ROWS
2-6450541-1	D C B A
12S + 4P	

POWER				SIGNAL		
P4	P3	P2	P1	3	2	1
GS	GS	GS	GS	AP	AP	AP
				AP	AP	AP
				AP	AP	AP
				AP	AP	AP



DRN R.GRZYBOWSKI	02MAY05	Tyco Electronics Corporation Harrisburg, PA 17105-3608
CHK W.PERCHERKE	02MAY05	
APD W.PERCHERKE	02MAY05	NAME VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL
PRODUCT SPEC 108-1973		
APPLICATION SPEC 114-13038		SIZE A1 · CAGE CODE 00779 · DRAWING NO C-6450541 · RESTRICTED TO -
WEIGHT -		SCALE 2:1 · SHEET 6 OF 11 · REV E1
CUSTOMER DRAWING		

DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±:
1 PLC ±:
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL :
FINISH :

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LOC	DIST
GP	00

REVISIONS

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

ASSY PART NUMBER	ROWS
1-6450541-8	D C B A
24S + 10P	

POWER: P10 P9 P8 P7 P6 P5 P4 P3 P2 P1

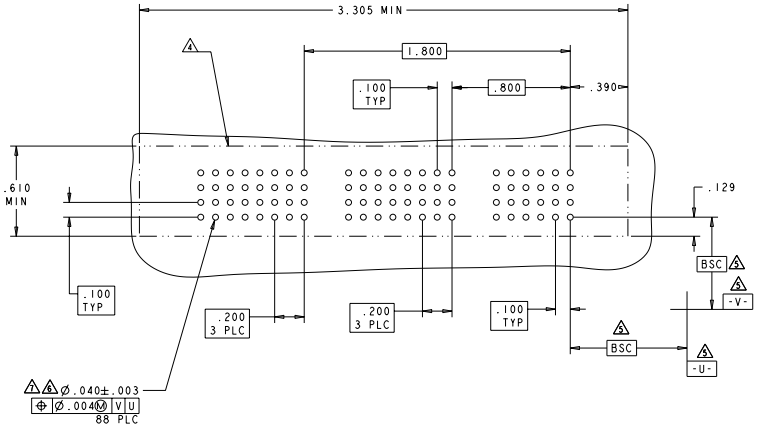
SIGNAL: 6 5 4 3 2 1

GS GS GS GS GS GS GS GS

AP AP AP AP AP AP AP AP AP AP AP AP

NO CONTACTS LOADED

NO CONTACTS LOADED



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DIMENSIONS: INCHES

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±:
1 PLC ±:
2 PLC ±: 0.01
3 PLC ±: 0.005
4 PLC ±: 0.0020
ANGLES ±: 2°

MATERIAL: -

FINISH: -

DWN	R.GRZYBOWSKI	02MAY05
CHK	W.PERCHERKE	02MAY05
APD	W.PERCHERKE	02MAY05

PRODUCT SPEC: 108-1973
APPLICATION SPEC: 114-13038
WEIGHT: -

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME: VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450541	-

CUSTOMER DRAWING

SCALE 2:1 SHEET 7 OF 11 REV E1

AMP 4805 REV 31MAR2000

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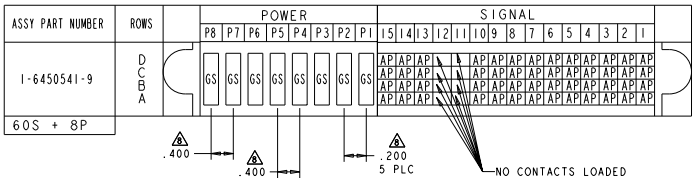
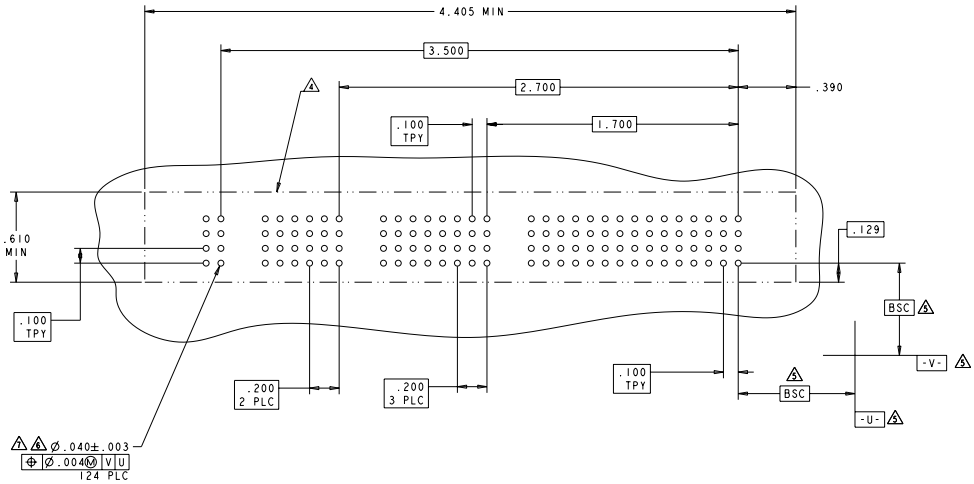
LOC	DIST
GP	00

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 PLACES ±.0020 ANGLES ±2°	DRN B.GRZYBOWSKI 02MAY05	Tyco Electronics Corporation Harrisburg, PA 17105-3608
MATERIAL -	FINISH -	CHK W.PERCHERKE 02MAY05	VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL
		APD W.PERCHERKE 02MAY05	
		PRODUCT SPEC 108-1973	
		APPLICATION SPEC 114-13038	SIZE A1 · CAGE CODE 00779 · DRAWING NO C-6450541 · RESTRICTED TO -
		WEIGHT -	
		CUSTOMER DRAWING	SCALE 2:1 · SHEET 8 OF 11 · REV E1

AMP 4805 REV 31MAR2000

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LOC	DIST
GP	00

REVISIONS

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

ASSY PART NUMBER	ROWS
2-6450541-0	D C B A
36S + 24P	

POWER: P24 P23 P22 P21 P20 P19 P18 P17 P16 P15 P14 P13 P12 P11 P10 P9 P8 P7 P6 P5 P4 P3 P2 P1

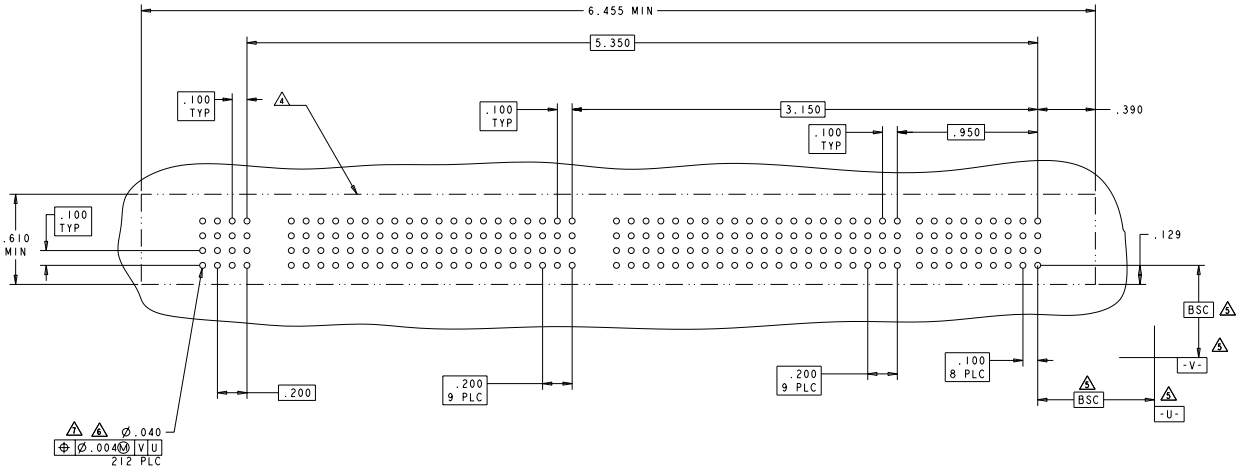
SIGNAL: 9 8 7 6 5 4 3 2 1

	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1
D	GP	GP		GS	GS	GS	GS	GS	GS	GS	GS	GS		GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	
C																								
B																								
A																								

	9	8	7	6	5	4	3	2	1
D	AP	AP				AP	AP	AP	AP
C	AP	AP				AP	AP	AP	AP
B	AP	AP				AP	AP	AP	AP
A	AP	AP				AP	AP	AP	AP

NO CONTACTS LOADED

NO CONTACTS LOADED



DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±: 1 PLC ±: 2 PLC ±.01 3 PLC ±.005 4 PLACES ±.0020 ANGLES ±2°	MATERIAL: -	FINISH: -

DWN	R.GRZYBOWSKI	02MAY05
CHK	W.PERCHERKE	02MAY05
APD	W.PERCHERKE	02MAY05
PRODUCT SPEC	108-1973	
APPLICATION SPEC	114-13038	
WEIGHT	-	

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME: VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450541	-

CUSTOMER DRAWING | SCALE 2:1 | SHEET 9 OF 11 | REV E1

AMP 4805 REV 31MAR2000

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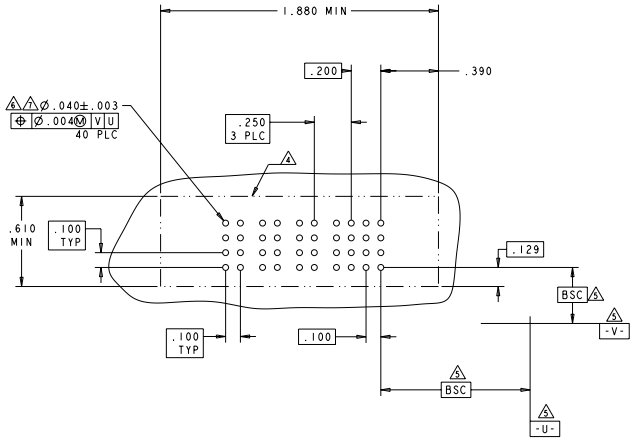
LOC	DIST
GP	00

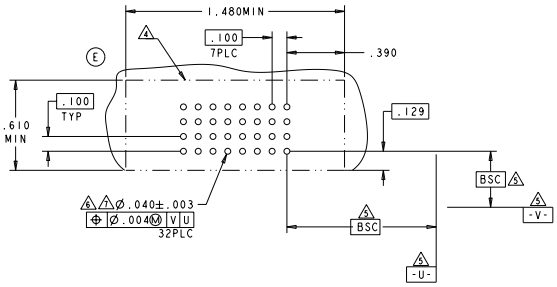
REVISIONS

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

PART NUMBER	ROWS		POWER				SIGNAL		
			P4	P3	P2	P1	2	1	
2-6450541-2	D		GS	GS	GS	GS	AP	AP	
	C						AP	AP	
	B						AP	AP	
	A						AP	AP	
8S + 4P									

PART NUMBER	ROWS		SIGNAL							
			8	7	6	5	4	3	2	1
2-6450541-4	D		AP	AP	AP	AP	AP	AP	AP	AP
	C		AP	AP	AP	AP	AP	AP	AP	AP
	B		AP	AP	AP	AP	AP	AP	AP	AP
	A		AP	AP	AP	AP	AP	AP	AP	AP
32S										





DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±: 1 PLC ±: 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±2°	MATERIAL: FINISH:

DWN B.GRZYBOWSKI 02MAY05	Tyco Electronics Corporation Harrisburg, PA 17105-3608	
CHK W.PERCHERKE 02MAY05		
APD W.PERCHERKE 02MAY05	NAME VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL	
PRODUCT SPEC 108-1973		
APPLICATION SPEC 114-13038	SIZE A1 / CAGE CODE 00779 / DRAWING NO C-6450541	RESTRICTED TO -
WEIGHT -		
CUSTOMER DRAWING	SCALE 2:1 / SHEET 10 OF 11	REV E1

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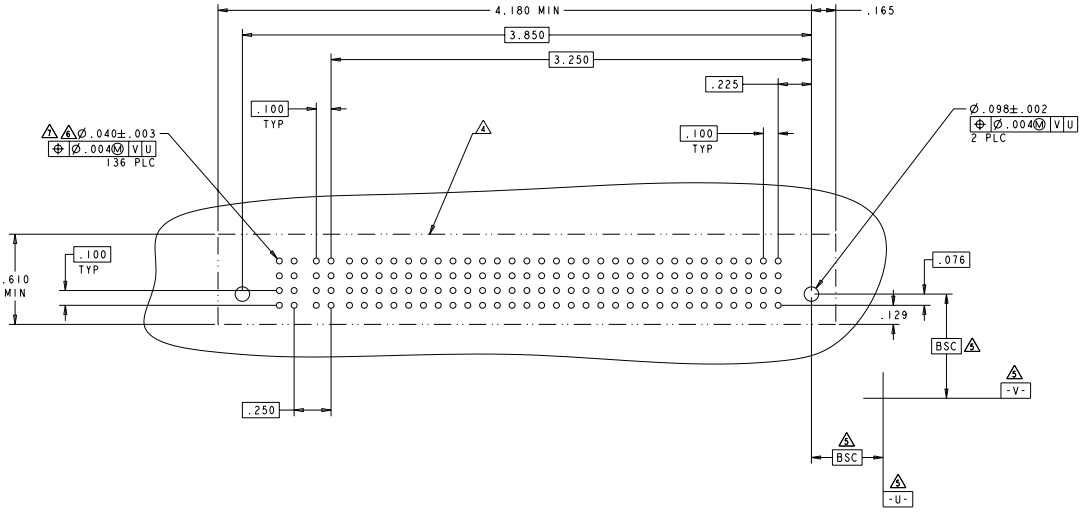
LOC	DIST
GP	00

REVISIONS

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

ASSY PART NUMBER	ROWS	POWER P2	POWER P1	SIGNAL 30 29 28 27 26 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
2-6450541-3	D C B A	GS	GS	AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP AP
120S + 2P	HD			HD



DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±: 1 PLC ±: 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±2°	MATERIAL:	FINISH:

DWN B.GRZYBOWSKI 02MAY05
CHK W.PERCHERKE 02MAY05
APD W.PERCHERKE 02MAY05
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -
CUSTOMER DRAWING

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME VERTICAL RECEPTACLE WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450541	-

SCALE 2:1 SHEET 11 OF 11 REV E1

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