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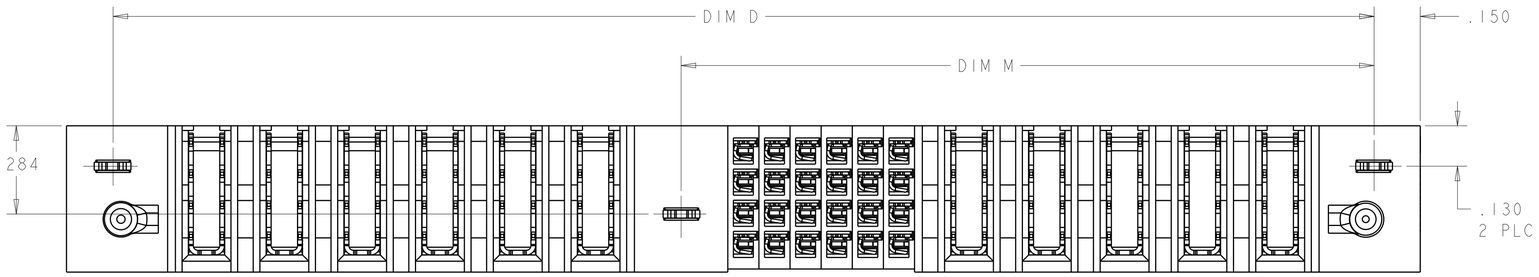
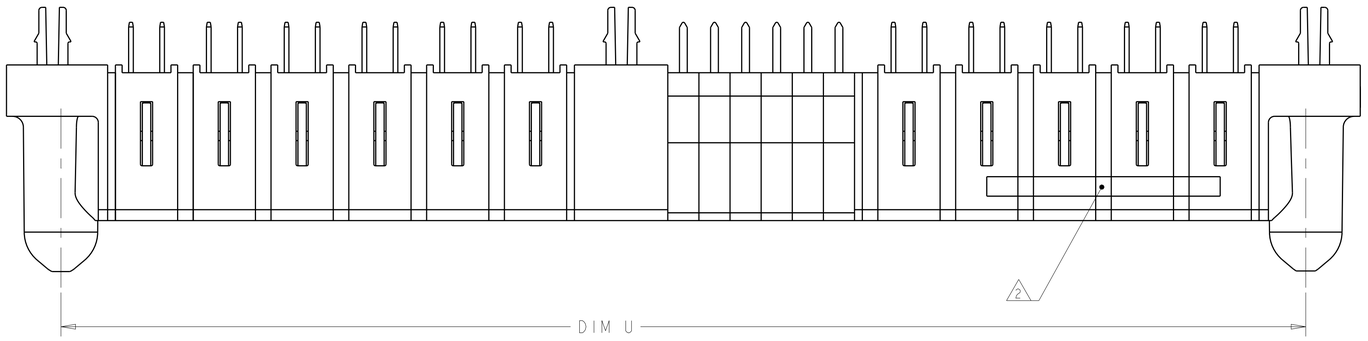
LOC	DIST
ES	00

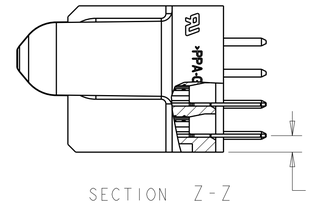
REVISIONS

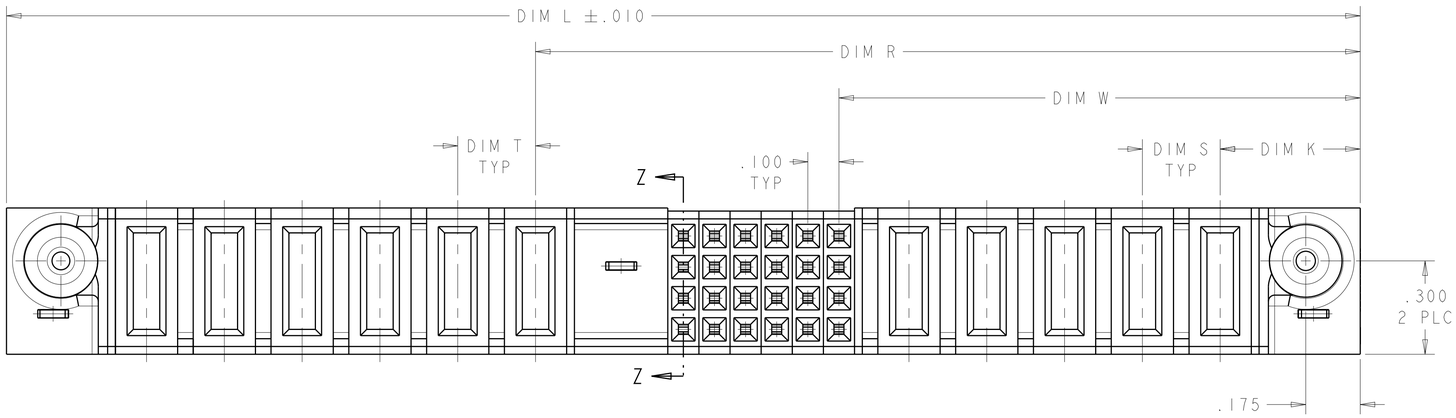
P	LTR	DESCRIPTION	DATE	DWN	APVD
	E1	ADD 3-6450140-4	02APR2011	OL	SZ
	E2	REV PER ECR-11-008606	29APR2011	OL	SZ
	E3	ADDED NEW DASH NUMBER 3-5 AND 3-6	09MAR2012	CZ	SZ
	E4	REVISED	23APR2012	CZ	SZ

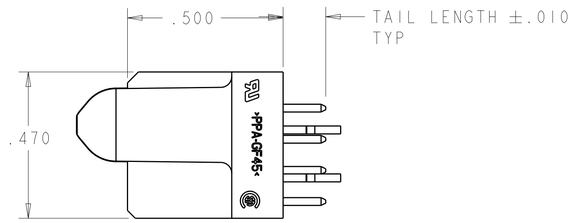




1. OPTIONAL CENTER MODULE, WITH Ø.150 THRU HOLE OR HOLD DOWN FEATURE
2. "AMP", TRADEMARK, PART NUMBER AND DATE CODE TO BE MARKED IN AREA SHOWN.
3. MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, UL94 V-O
   SIGNAL CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
   POWER CONTACT - HIGH CONDUCTIVITY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







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DIMENSIONS: INCHES

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

MATERIAL - - 3
FINISH - - 4

DWN R GRZYBOWSKI 15FEB05
CHK M PERCHERKE 15FEB05
APVD M PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

TE Connectivity

NAME VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450140	-

CUSTOMER DRAWING | SCALE 2:1 | SHEET 1 OF 11 | REV E4

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LOC	DIST
ES	00

REVISIONS

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

	U	T	S	R	W	D	M	L	K	DESCRIPTION	PART NUMBER
E3	1.575	-	-	1.425	.700	1.625	-	1.925	.475	1P + 24S + 1P	3-6450140-6
	1.575	-	-	1.425	.700	1.625	-	1.925	.475	1P + 24S + 1P	3-6450140-5
	2.700	.250	.250	2.100	1.125	2.750	-	3.050	.450	3P + 36S + 3P	3-6450140-4
	3.200	.250	.250	2.350	1.375	3.250	-	3.550	.450	4P + 36S + 4P	3-6450140-1
	3.500	.250	.250	2.150	1.875	3.550	-	3.850	.450	6P + 8S + 6P	3-6450140-0
	2.500	.250	.250	1.650	1.375	2.550	-	2.850	.450	4P + 8S + 4P	2-6450140-9
	2.900	.250	.250	2.050	1.375	2.950	-	3.250	.450	4P + 24S + 4P	2-6450140-8
	2.400	.250	.250	2.050	1.375	2.450	-	2.750	.450	4P + 24S + 2P	2-6450140-7
	3.700	.300	.200	2.700	2.025	3.750	-	4.050	.450	8P + 24S + 4ACP	2-6450140-6
	2.400	.250	.250	1.800	1.125	2.450	-	2.750	.450	3P + 24S + 3P	2-6450140-5
	1.900	.250	.250	1.550	.875	1.950	-	2.250	.450	2P + 24S + 2P	2-6450140-0
	2.600	.200	.200	1.900	1.225	2.650	-	2.950	.450	4HDP + 24S + 4HDP	1-6450140-9
	1.700	.250	.250	1.350	.875	1.750	-	2.050	.450	2P + 16S + 2P	1-6450140-8
	4.500	.250	.250	2.900	2.125	4.550	-	4.850	.450	7P + 28S + 7P	1-6450140-3
	4.250	.250	.250	2.650	1.875	4.300	-	4.600	.450	6P + 28S + 7P	1-6450140-2
	2.800	.250	.250	1.950	1.375	2.850	-	3.150	.450	4P + 20S + 4P	1-6450140-1
	2.400	.250	.250	1.800	1.125	2.450	-	2.750	.450	3P + 24S + 3P	1-6450140-0
	4.000	.250	.250	2.650	1.675	4.050	2.225	4.350	.450	5P+24S+1M+6P	6450140-9
	4.150	.250	.250	2.800	2.125	4.200	-	4.500	.450	7P + 24S + 6P	6450140-8
	4.350	.250	.250	3.500	2.625	4.400	-	4.700	.450	9P + 32S + 4P	6450140-7
	1.575	-	-	1.425	.700	1.625	-	1.925	.475	1P + 24S + 1P	6450140-6
	1.900	.250	.250	1.550	.875	1.950	-	2.250	.450	2P + 24S + 2P	6450140-5
	7.400	.250	.250	5.050	2.875	7.450	-	7.750	.450	10P + 84S + 10P	6450140-4
	3.650	.250	.250	2.550	1.875	3.700	-	4.000	.450	6P + 24S + 5P	6450140-3
	4.350	.250	.250	3.000	2.125	4.400	-	4.700	.450	7P + 32S + 6P	6450140-2
	5.100	.250	.250	3.250	2.375	5.150	-	5.450	.450	8P + 32S + 8P	6450140-1

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ANGLES ±2°

MATERIAL - -
FINISH - -

DWN R.GRZYBOWSKI 15FEB05
CHK M.PERCHERKE 15FEB05
APVD M.PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

TE Connectivity

NAME VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450140	-

CUSTOMER DRAWING SCALE 2:1 SHEET 2 OF 11 REV E4

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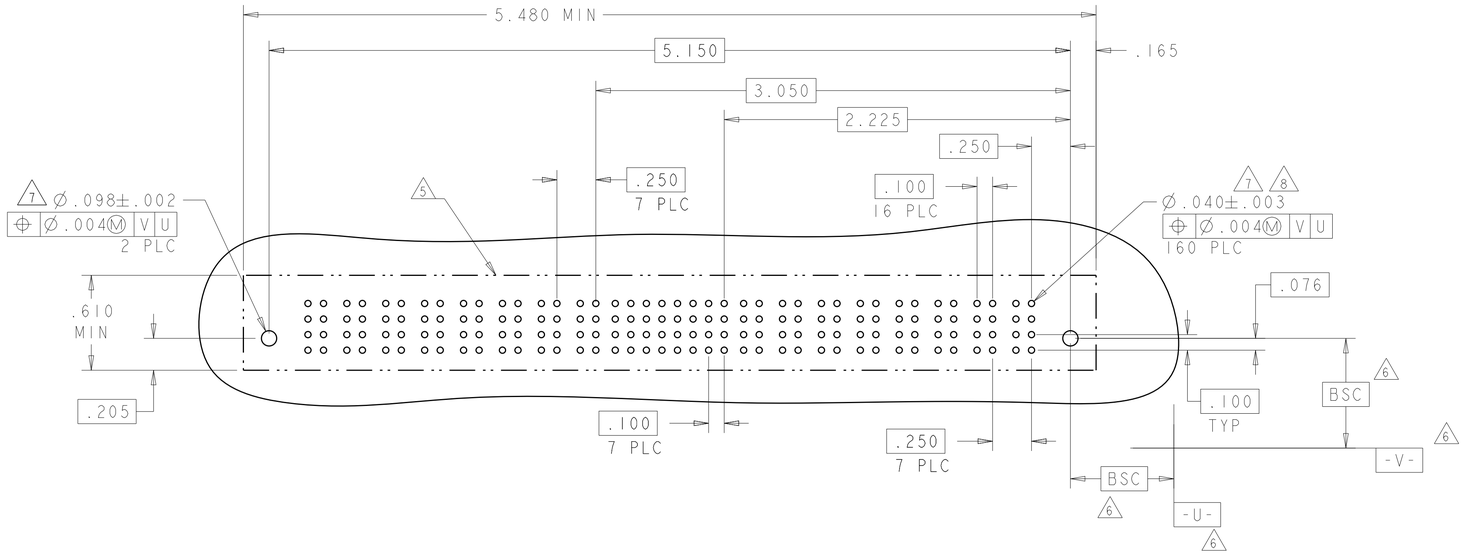
LOC	DIST
ES	00

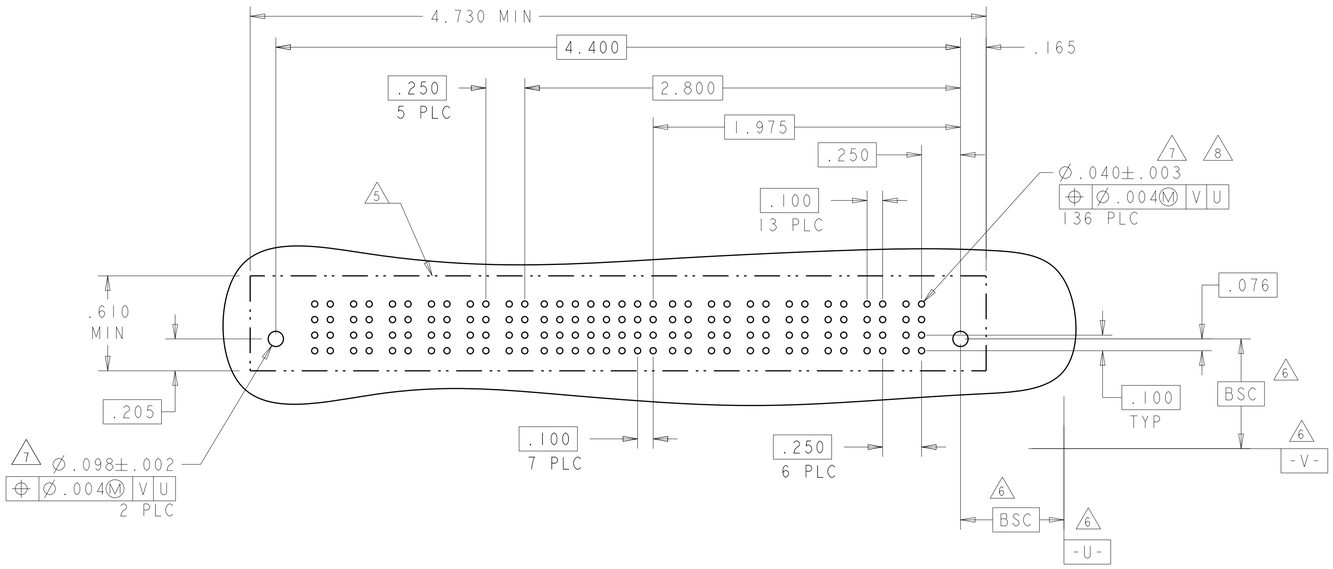
REVISIONS

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

PART NUMBER	ROWS	POWER								SIGNAL							POWER							
		P16	P15	P14	P13	P12	P11	P10	P9	8	7	6	5	4	3	2	1	P8	P7	P6	P5	P4	P3	P2	P1
6450140-1	D C B A	VA	VA	VA	VA	VA	VA	VA	VA	E	E	E	E	E	E	E	E	VA	VA	VA	VA	VA	VA	VA	VA
										E	E	E	E	E	E	E	E								
										E	E	E	E	E	E	E	E								
										E	E	E	E	E	E	E	E								
	HD																								HD
9P + 32S + 8P																									



PART NUMBER	ROWS	POWER						SIGNAL						POWER						
		P13	P12	P11	P10	P9	P8	8	7	6	5	4	3	2	1	P7	P6	P5	P4	P3	P2	P1
6450140-2	D C B A	VA	VA	VA	VA	VA	VA	E	E	E	E	E	E	E	E	VA	VA	VA	VA	VA	VA	VA
								E	E	E	E	E	E	E	E							
								E	E	E	E	E	E	E	E							
								E	E	E	E	E	E	E	E							
	HD																					HD
7P + 32S + 6P																						



VB	.090	MFBL
VM	.135	STD
VA	.135	MFBL
CODE	TAIL LENGTH	DESCRIPTION
POWER CONTACT		

J	.090
E	.135
CODE	TAIL LENGTH
SIGNAL CONTACT	

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3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL - -

FINISH - -

DWN R.GRZYBOWSKI 15FEB05
CHK M.PERCHERKE 15FEB05
APVD M.PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

TE Connectivity

NAME VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450140	-

CUSTOMER DRAWING SCALE 2:1 SHEET 3 OF 11 REV E4

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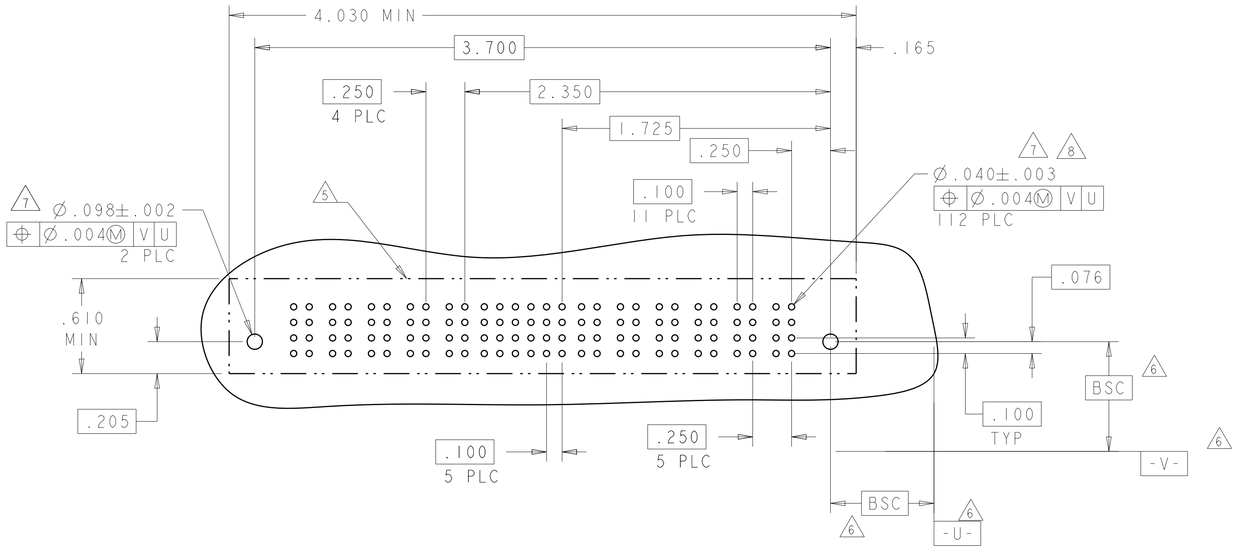
LOC	DIST
ES	00

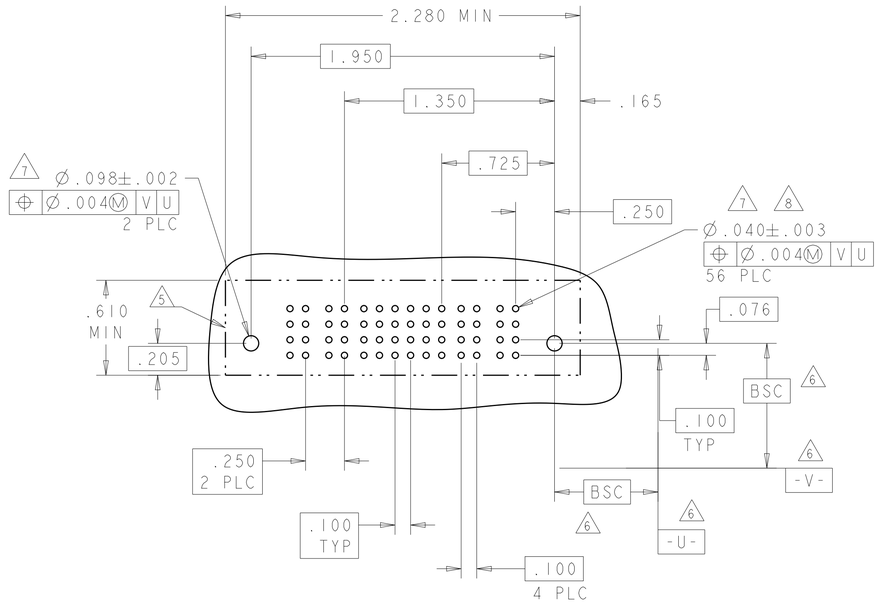
REVISIONS

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

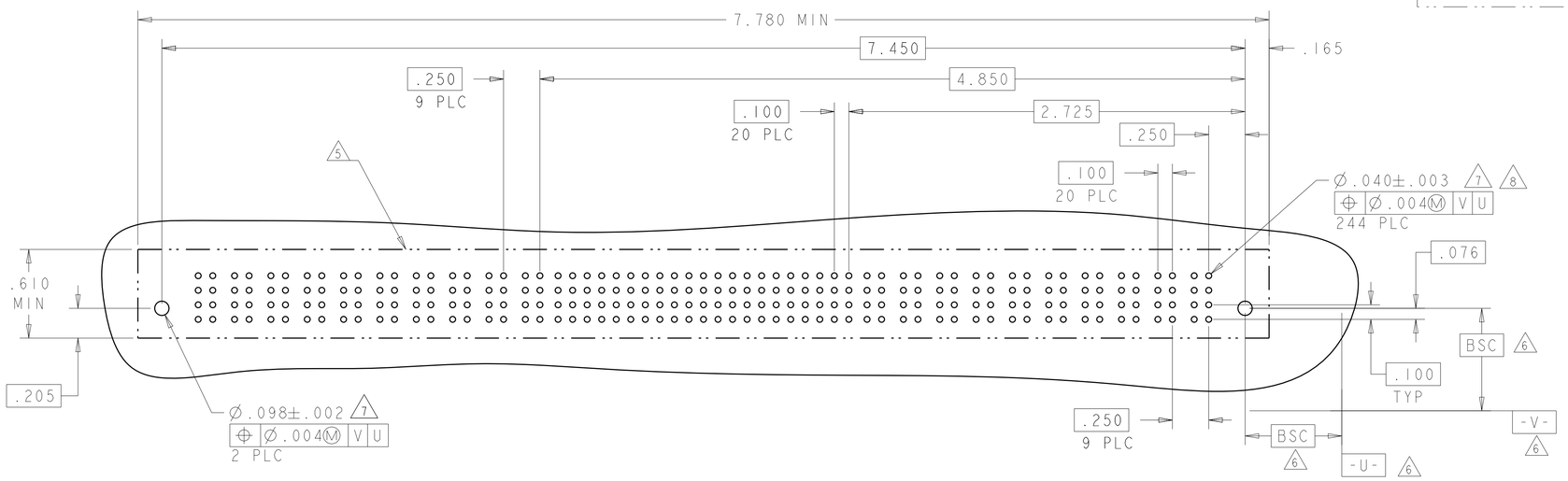
PART NUMBER	ROWS	POWER					SIGNAL						POWER					
		P11	P10	P9	P8	P7	6	5	4	3	2	1	P6	P5	P4	P3	P2	P1
6450140-3	D C B A	VA	VA	VA	VA	VA	E	E	E	E	E	E	VA	VA	VA	VA	VA	VA
6P + 24S + 5P		HD																HD



PART NUMBER	ROWS	POWER		SIGNAL							POWER	
		P4	P3	6	5	4	3	2	1		P2	P1
6450140-5	D C B A	VA	VA	E	E	E	E	E	E		VA	VA
2P + 24S + 2P		HD										HD



PART NUMBER	ROWS	POWER											SIGNAL																							POWER									
		P20	P19	P18	P17	P16	P15	P14	P13	P12	P11		21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		P10	P9	P8	P7	P6	P5	P4	P3	P2	P1
6450140-4	D C B A	VA	VA	VA	VA	VA	VA	VA	VA	VA	VA		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		VA	VA	VA	VA	VA	VA	VA	VA	VA	VA
10P + 84S + 10P		HD																																											HD



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1 PLC ±-
2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL -
FINISH -

DWN R.GRZYBOWSKI 15FEB05
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SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
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CUSTOMER DRAWING

SCALE	SHEET	OF	REV
2:1	4	11	E4

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LOC	DIST
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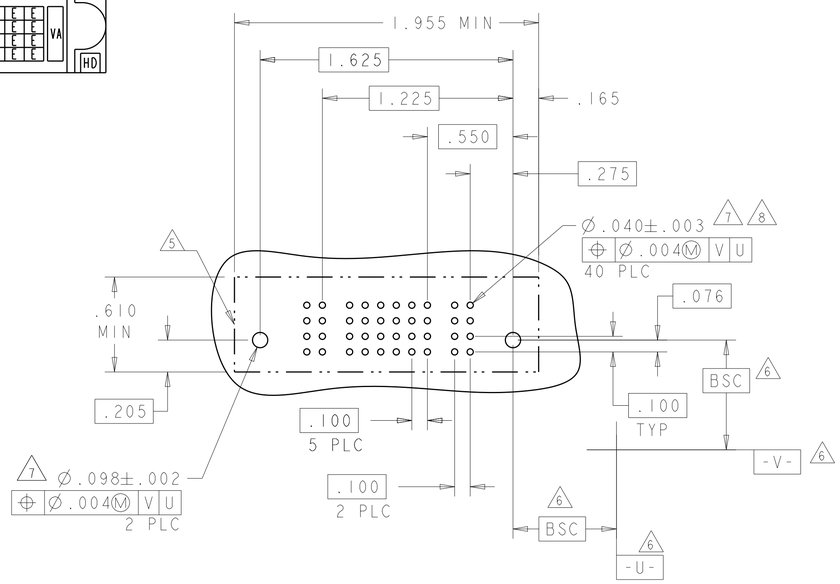
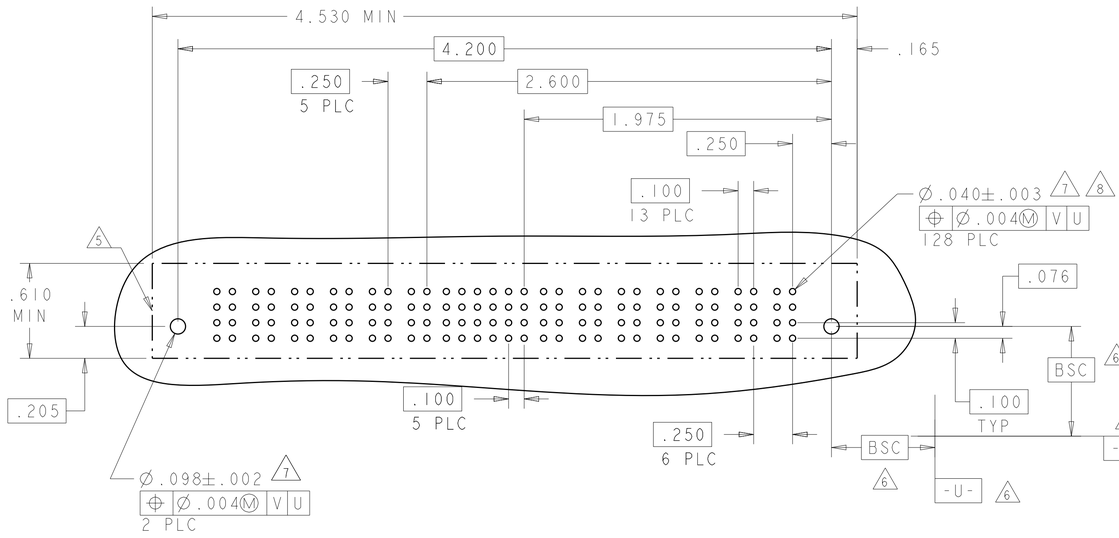
REVISIONS

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

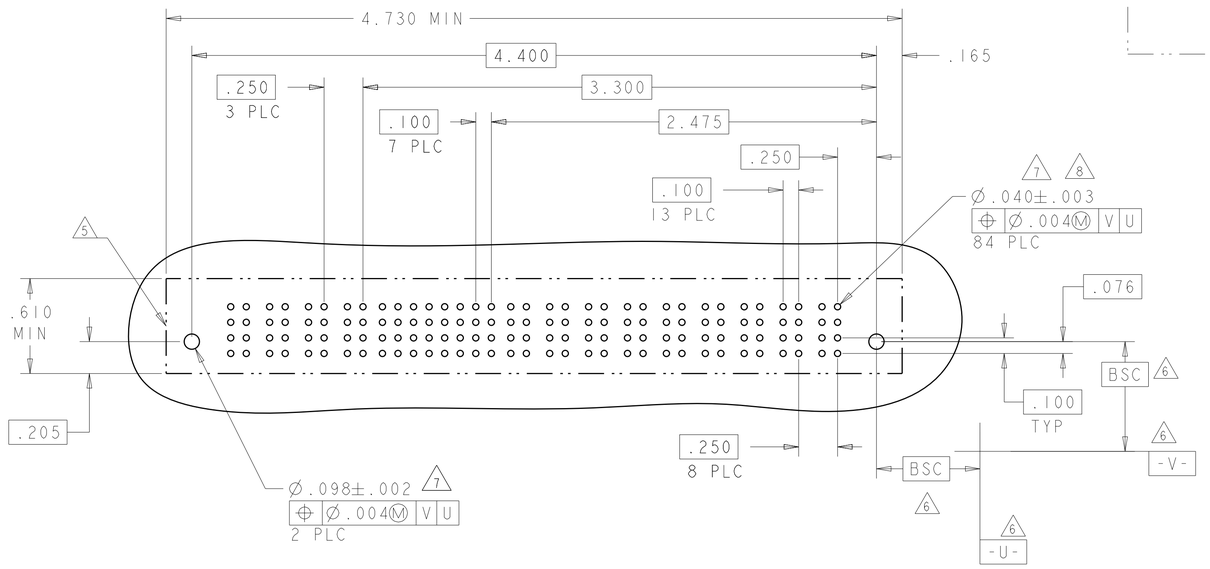
PART NUMBER	ROWS	POWER P2	SIGNAL 6 5 4 3 2 1	POWER P1
6450140-6	D C B A	VA	E E E E E E / E E E E E E / E E E E E E / E E E E E E	VA
1P + 24S + 1P		HD		HD



PART NUMBER	ROWS	POWER P13 P12 P11 P10 P9 P8	SIGNAL 6 5 4 3 2 1	POWER P7 P6 P5 P4 P3 P2 P1
6450140-8	D C B A	VA VA VA VA VA VA	E E E E E E / E E E E E E / E E E E E E / E E E E E E	VA VA VA VA VA VA VA
7P + 24S + 6P		HD		HD



PART NUMBER	ROWS	POWER P13 P12 P11 P10	SIGNAL 8 7 6 5 4 3 2 1	POWER P9 P8 P7 P6 P5 P4 P3 P2 P1
6450140-7	D C B A	VA VA VA VA	E E E E E E E E / E E E E E E E E / E E E E E E E E / E E E E E E E E	VA VA VA VA VA VA VA VA VA
1P + 32S + 4P		HD		HD



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2 PLC ±.01
3 PLC ±.005
4 PLC ±.0020
ANGLES ±2°

MATERIAL - -

FINISH - -

DWN	R.GRZYBOWSKI	15FEB05
CHK	M.PERCHERKE	15FEB05
APVD	M.PERCHERKE	-
PRODUCT SPEC	108-1973	
APPLICATION SPEC	114-13038	
WEIGHT	-	

TE Connectivity

NAME: VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450140	-

CUSTOMER DRAWING | SCALE 2:1 | SHEET 5 OF 11 | REV E4

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LOC	DIST
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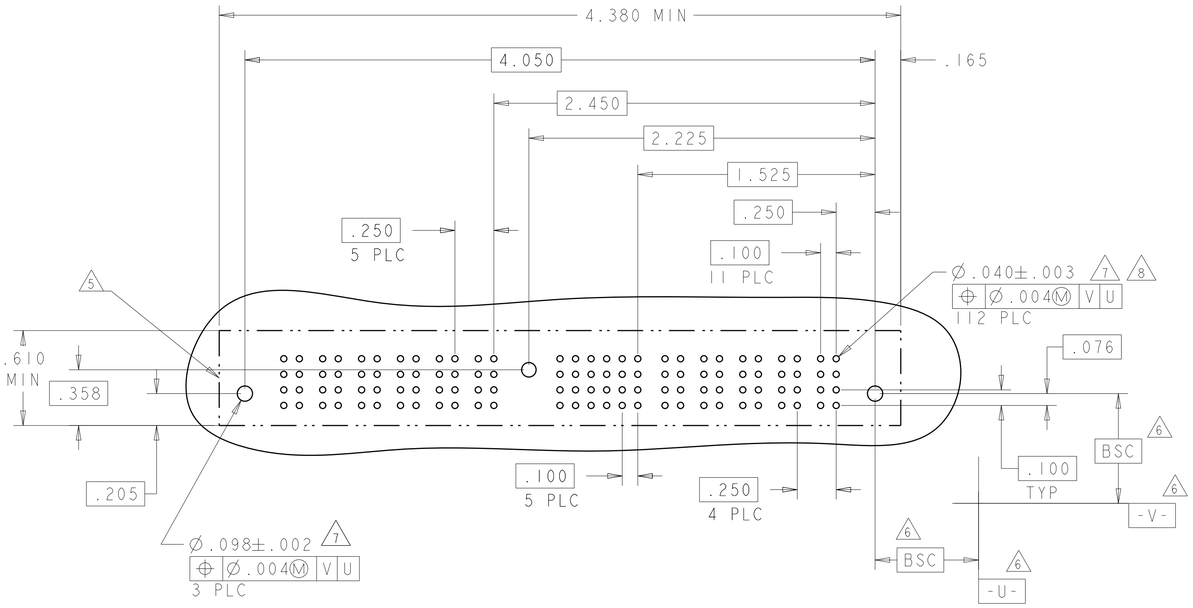
REVISIONS

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

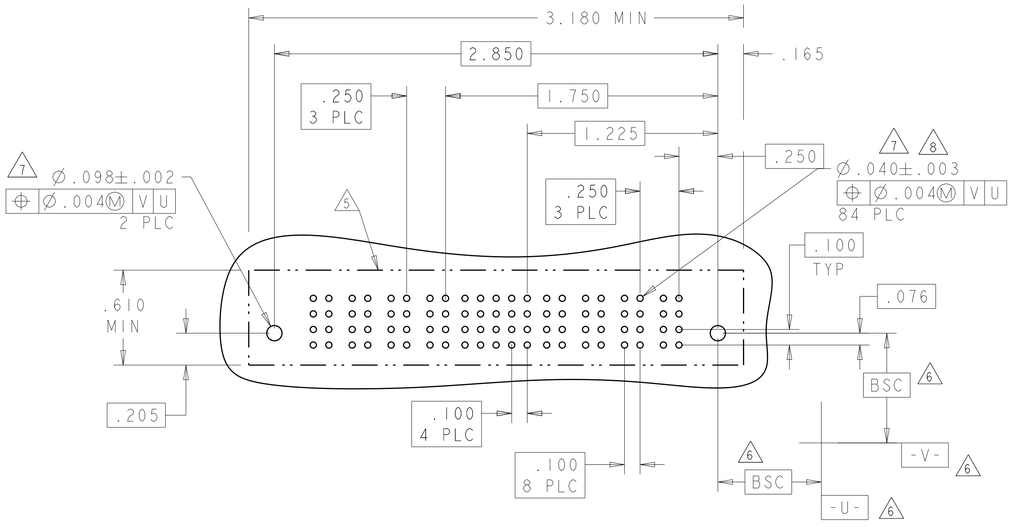
PART NUMBER	ROWS	POWER							SIGNAL						POWER					
		P11	P10	P9	P8	P7	P6	MI	6	5	4	3	2	1	P5	P4	P3	P2	P1
6450140-9	D C B A	VA	VA	VA	VA	VA	VA	HD	E E E E E E E E E E E E E E E E E E E E E E E E						VA	VA	VA	VA	VA	HD

5P + 24S + 1M + 6P



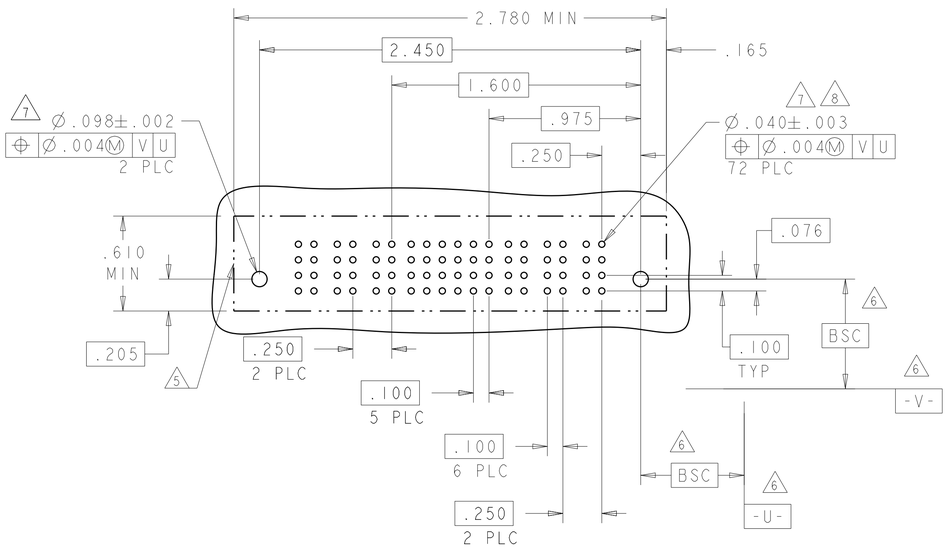
PART NUMBER	ROWS	POWER				SIGNAL					POWER				
		P8	P7	P6	P5	5	4	3	2	1	P4	P3	P2	P1	
1-6450140-1	D C B A	VA	VA	VA	VA	E E E E E E E E E E E E E E E E E E E E					VA	VA	VA	VA	HD

4P + 20S + 4P



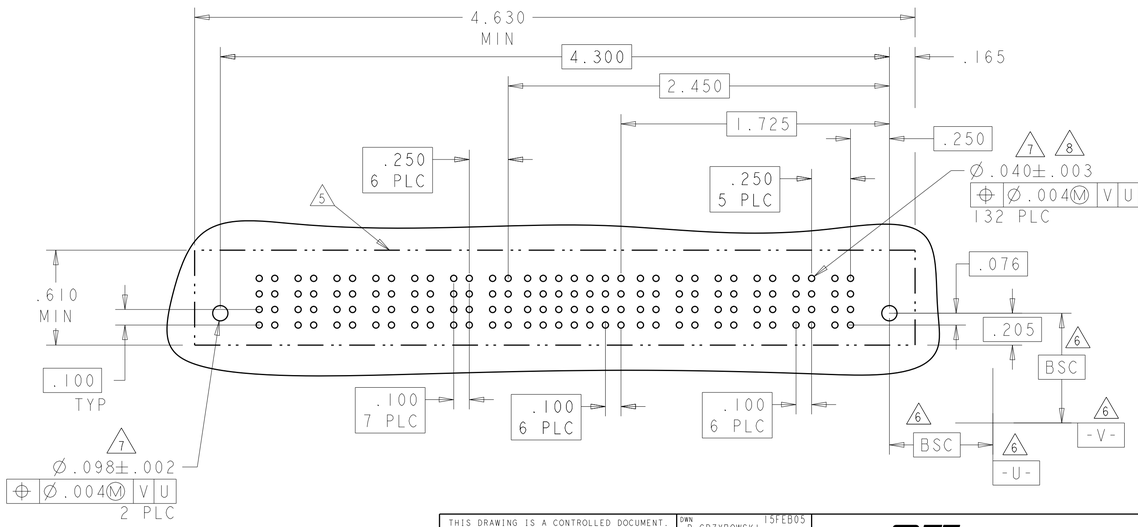
PART NUMBER	ROWS	POWER						SIGNAL							POWER					
		P6	P5	P4				6	5	4	3	2	1		P3	P2	P1			
1-6450140-0	D C B A	VA	VA	VA				E E E E E E E E E E E E E E E E E E E E							VA	VA	VA			HD

3P + 24S + 3P



PART NUMBER	ROWS	POWER							SIGNAL							POWER						
		P13	P12	P11	P10	P9	P8	P7	7	6	5	4	3	2	1	P6	P5	P4	P3	P2	P1	
1-6450140-2	D C B A	VA	VA	VA	VA	VA	VA	VA	E E E E E E E E E E E E E E E E E E E E							VA	VA	VA	VA	VA	VA	HD

6P + 28S + 7P



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CUSTOMER DRAWING | SCALE 2:1 | SHEET 6 OF 11 | REV E4

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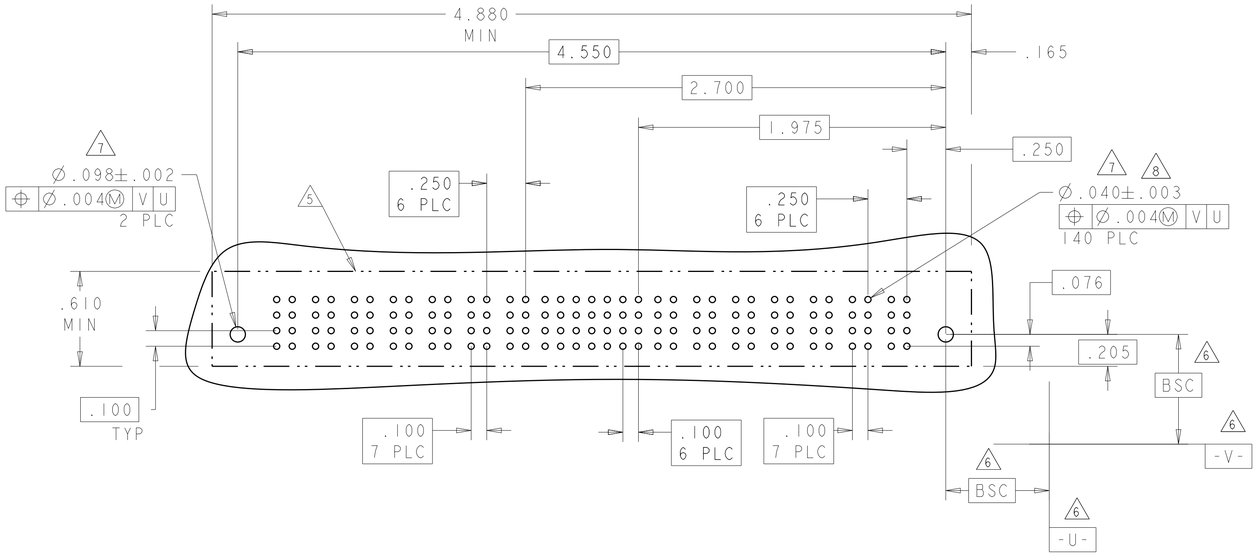
LOC	DIST
ES	00

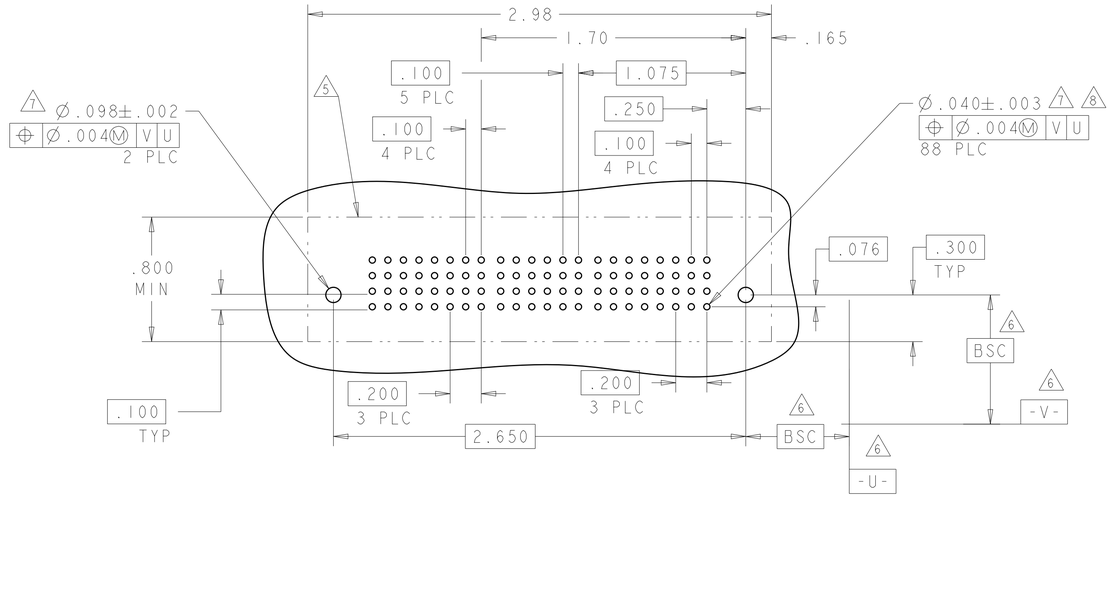
REVISIONS

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

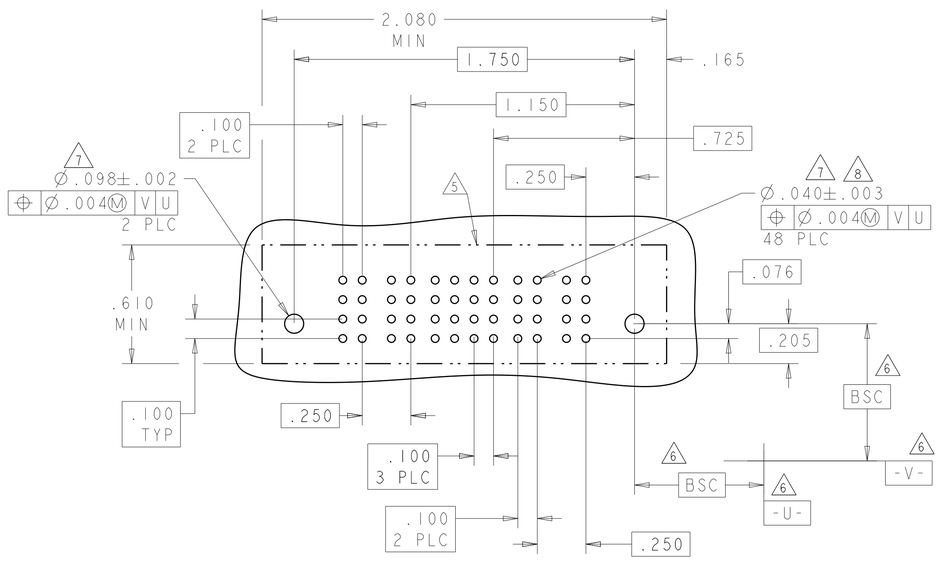
PART NUMBER	ROWS	POWER							SIGNAL						POWER						
		P14	P13	P12	P11	P10	P9	P8	7	6	5	4	3	2	1	P7	P6	P5	P4	P3	P2	P1
1-6450140-3	D C B A	VA	VA	VA	VA	VA	VA	VA	E E E E	E E E E	E E E E	E E E E	E E E E	E E E E	E E E E	VA	VA	VA	VA	VA	VA	VA
7P + 28S + 7P		HD																				HD



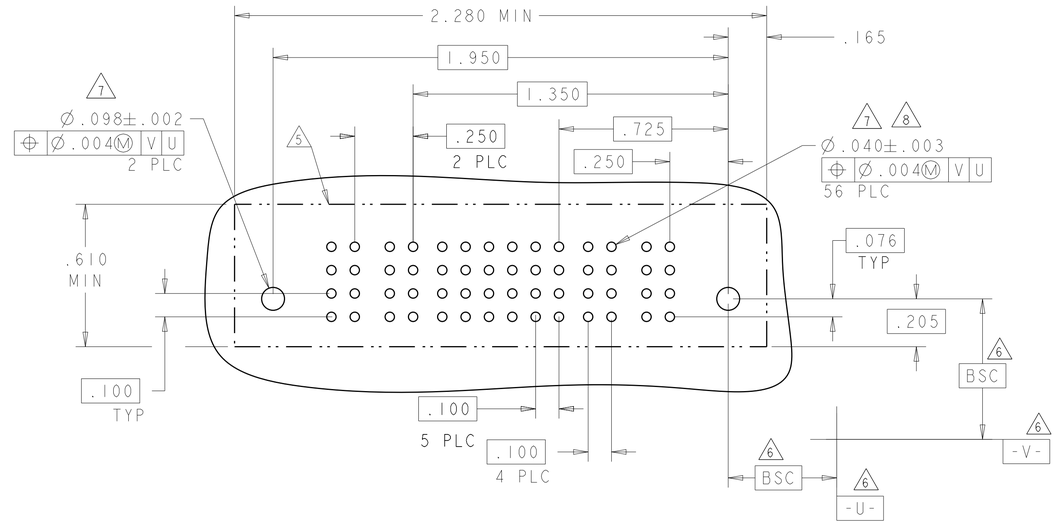
PART NUMBER	ROWS	POWER			SIGNAL					POWER			
		P8	P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1
1-6450140-9	D C B A	VA	VA	VA	VA	E E E E	E E E E	E E E E	E E E E	E E E E	E E E E	VA	VA	VA	VA
4HDP + 24S + 4HDP		HD													HD



PART NUMBER	ROWS	POWER		SIGNAL					POWER		
		P4	P3	4	3	2	1	P2	P1		
1-6450140-8	D C B A	VA	VA	E E E E	E E E E	E E E E	E E E E	VA	VA		
2P + 16S + 2P		HD									HD



PART NUMBER	ROWS	POWER		SIGNAL				POWER		
		P4	P3	6	5	4	3	2	1	P2	P1
2-6450140-0	D C B A	VA	VA	E E E E	E E E E	E E E E	E E E E	E E E E	E E E E	VA	VA
2P + 24S + 2P		HD									HD



THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN R GRZYBOWSKI 15FEB05	TE Connectivity	
	CHK M PERCHERKE 15FEB05		
DIMENSIONS: INCHES	APVD M PERCHERKE -	NAME VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±.01 2 PLC ±.005 3 PLC ±.0020 4 PLC ANGLES ±2°	PRODUCT SPEC 108-1973		
	APPLICATION SPEC 114-13038	SIZE A1	CAGE CODE 00779 DRAWING NO C-6450140 RESTRICTED TO -
MATERIAL -	WEIGHT -		
FINISH - -	CUSTOMER DRAWING	SCALE 2:1 SHEET 7 OF 11	REV E4

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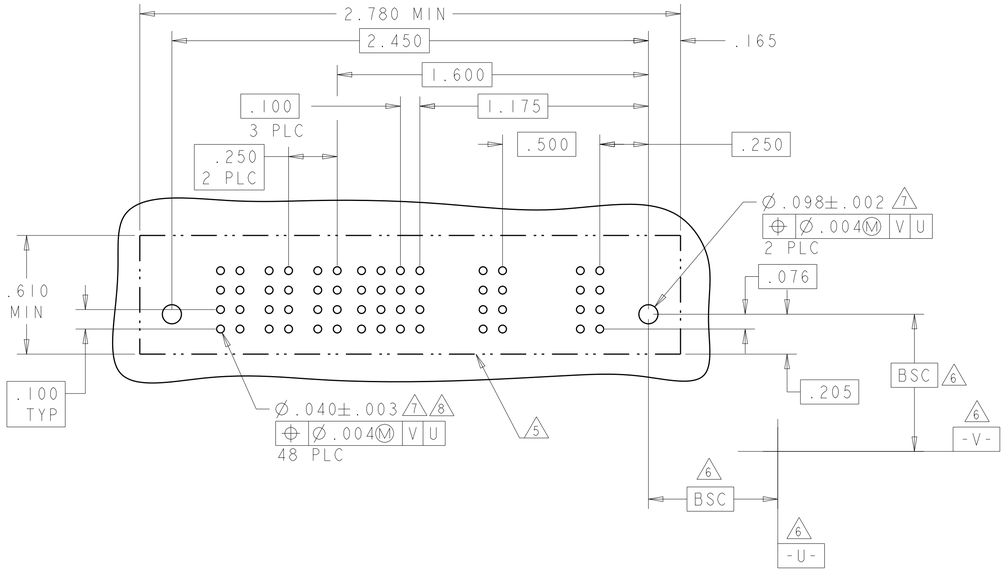
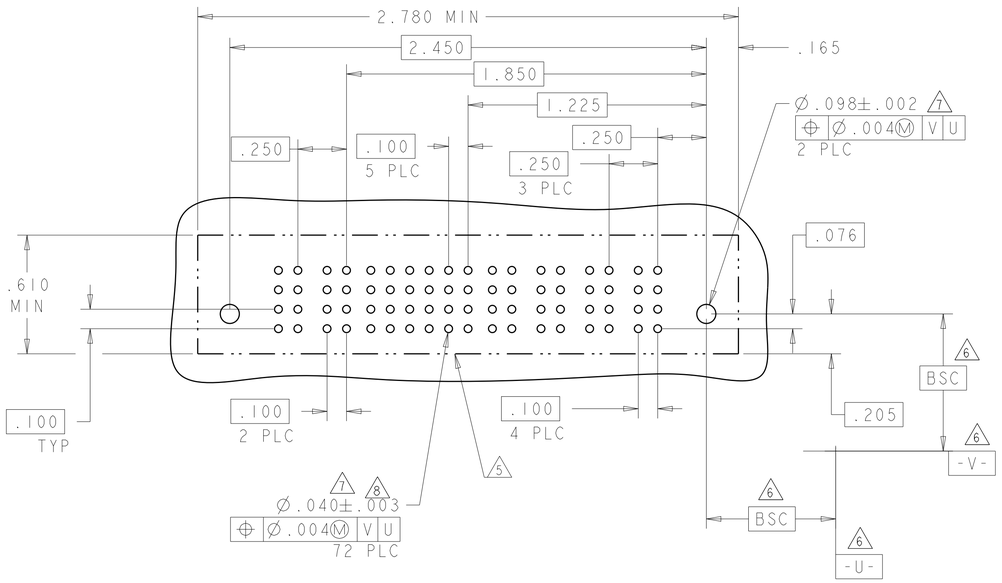
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

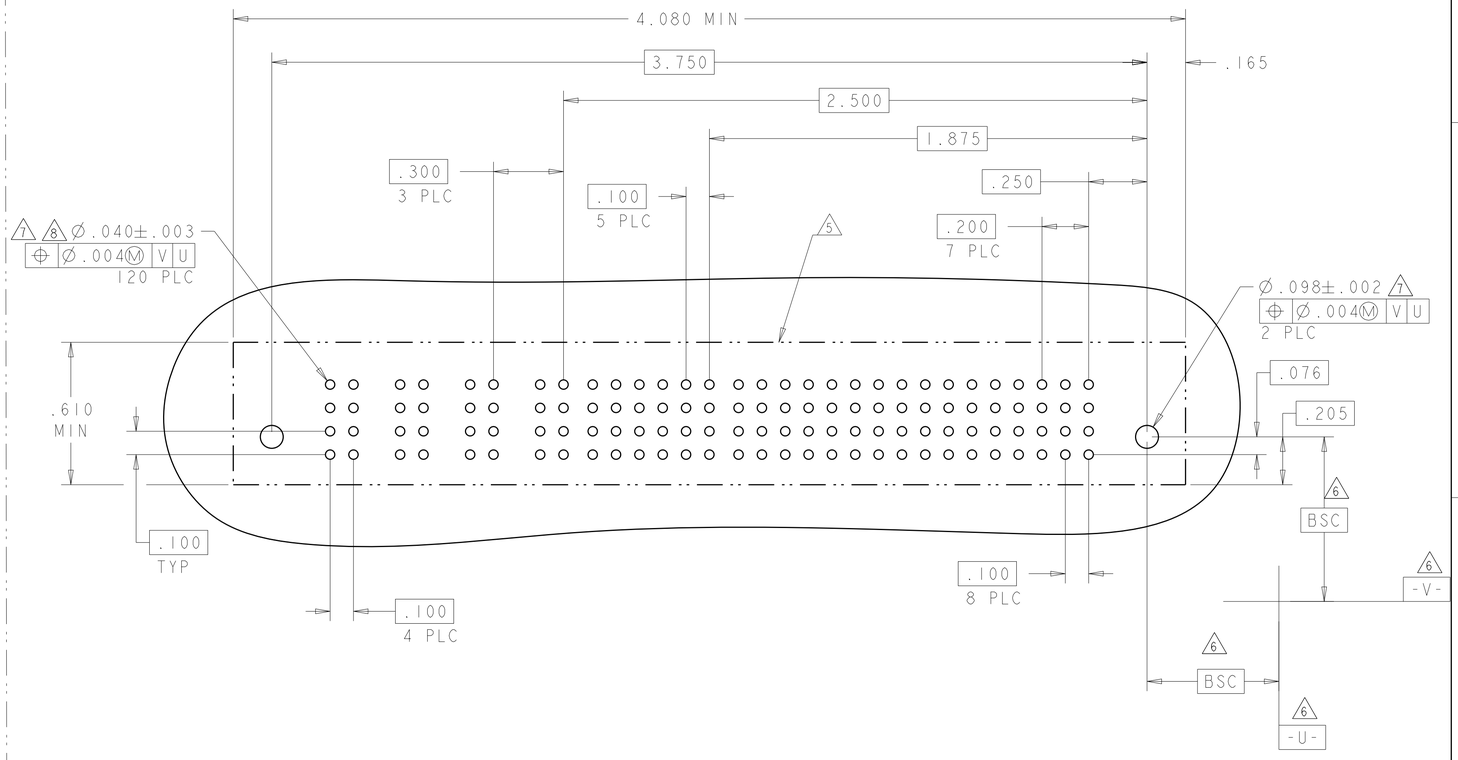
PART NUMBER	ROWS	POWER			SIGNAL						POWER		
		P6	P5	P4	6	5	4	3	2	1	P3	P2	P1
2-6450140-5	D C B A	VM	VM	VA	E E E E / E E E E / E E E E / E E E E						VM		VM
3P + 24S + 3P		HD											HD



PART NUMBER	ROWS	POWER		SIGNAL						POWER			
		P6	P5	6	5	4	3	2	1	P4	P3	P2	P1
2-6450140-7	D C B A	VM	VM	E E E E / E E E E / E E E E / E E E E						VM	VM	VM	VM
4P + 24S + 2P		HD											HD



PART NUMBER	ROWS	POWER								SIGNAL						POWER							
		P12	P11	P10	P9	P8	P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1	P8	P7	P6	P5
2-6450140-6	D C B A	VM	VM	VM	VM	VM	VM	VM	VM	E E E E / E E E E / E E E E / E E E E						VM	VM	VM	VM	VM	VM	VM	VM
8P + 24S + 4ACP		HD																					HD



THIS DRAWING IS A CONTROLLED DOCUMENT.	DWN R.GRZYBOWSKI 15FEB05	TE Connectivity	
DIMENSIONS: INCHES	CHK M.PERCHERKE 15FEB05	NAME VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL	
TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- 1 PLC ±- 2 PLC ±.01 3 PLC ±.005 4 PLC ±.0020 ANGLES ±2°	APVD M.PERCHERKE -	PRODUCT SPEC 108-1973	
		APPLICATION SPEC 114-13038	SIZE A1 / CAGE CODE 00779 / DRAWING NO C-6450140 / RESTRICTED TO -
MATERIAL - -	WEIGHT -	FINISH - -	CUSTOMER DRAWING / SCALE 2:1 / SHEET 8 OF 11 / REV E4

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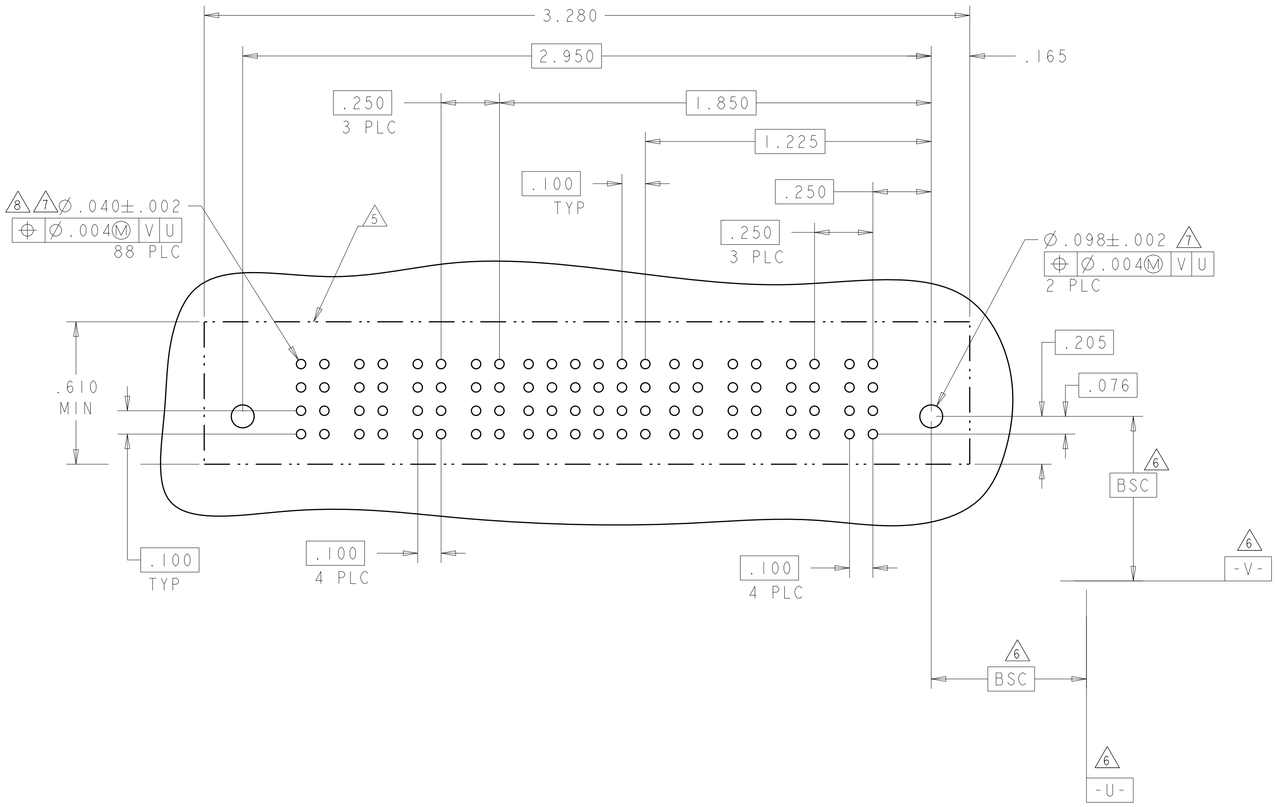
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS	POWER P8 P7 P6 P5	SIGNAL 6 5 4 3 2 1	POWER P4 P3 P2 P1
2-6450140-8	D C B A	VM VM VM VM	E E E E E E / E E E E E E / E E E E E E / E E E E E E	VM VM VM VM
4P + 24S + 4P		HD		HD



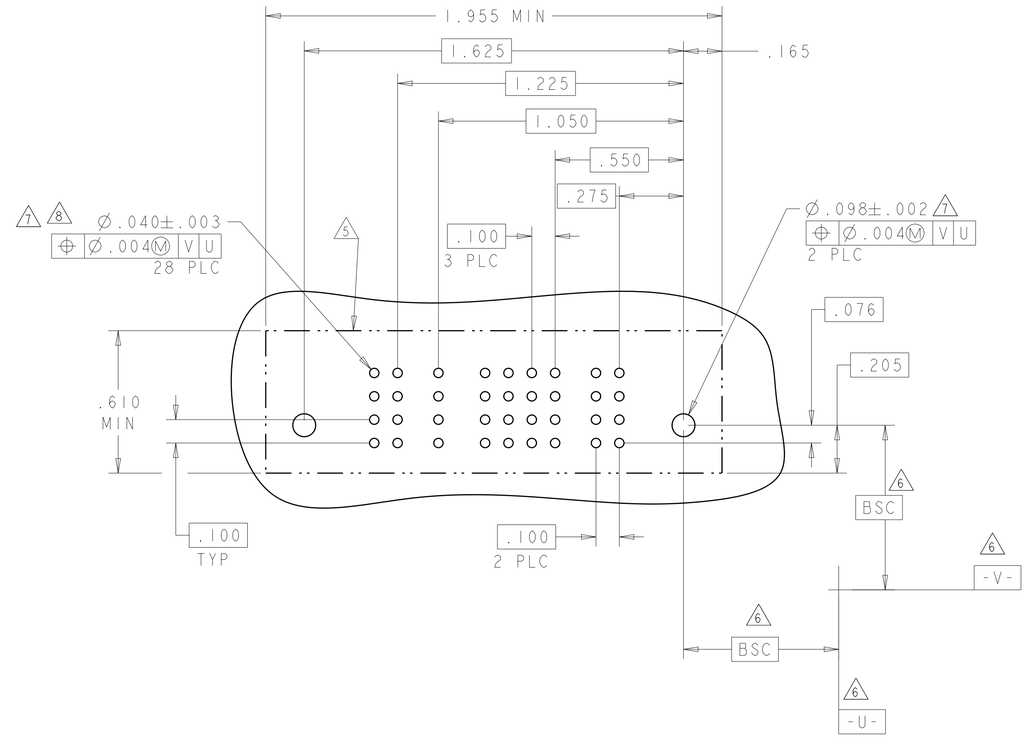
E3

PART NUMBER	ROWS	POWER P2	SIGNAL 6 5 4 3 2 1	POWER P1
3-6450140-5	D C B A	VA	E E E E E E / E E E E E E / E E E E E E / E E E E E E	VA
1P + 24S + 1P		HD		HD

NO CONTACTS LOADED

PART NUMBER	ROWS	POWER P2	SIGNAL 6 5 4 3 2 1	POWER P1
3-6450140-6	D C B A	VA	E E E E E E / E E E E E E / E E E E E E / E E E E E E	VA
1P + 24S + 1P		HD		HD

NO CONTACTS LOADED



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DIMENSIONS: INCHES

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

MATERIAL - -
FINISH - -

DWN R.GRZYBOWSKI 15FEB05
CHK M.PERCHERKE 15FEB05
APVD M.PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

TE Connectivity

NAME VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450140	-

CUSTOMER DRAWING | SCALE 2:1 | SHEET 9 OF 11 | REV E4

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LOC	DIST
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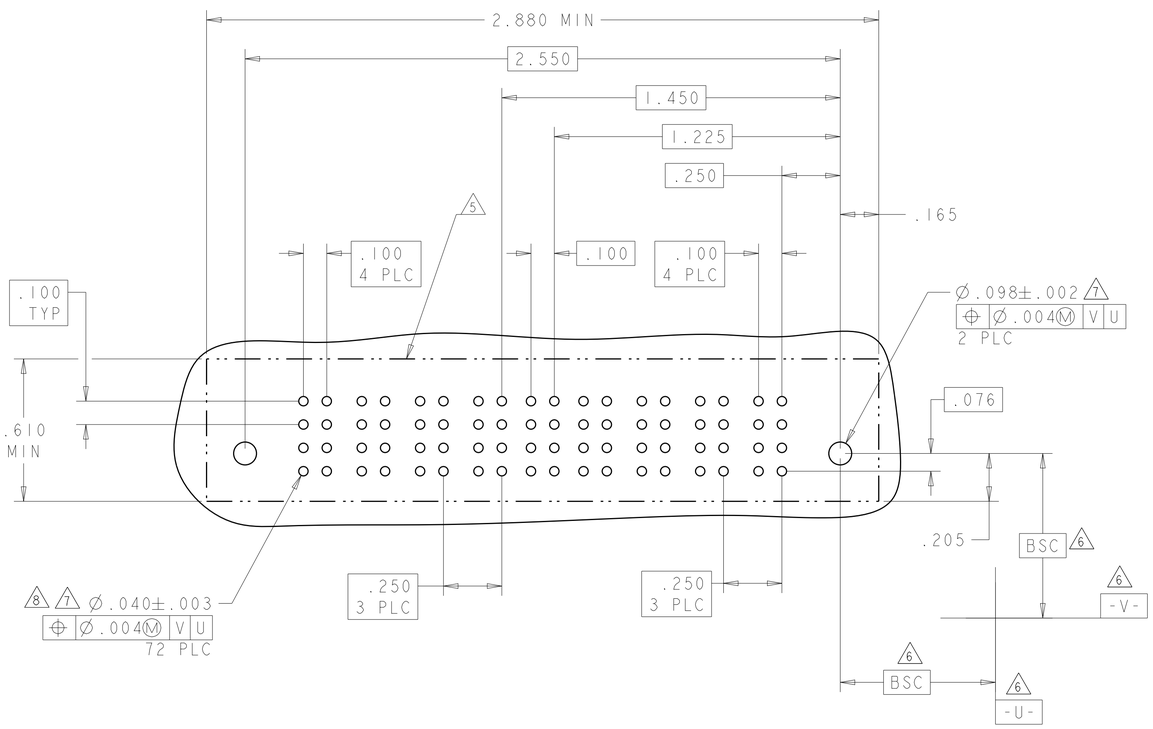
REVISIONS

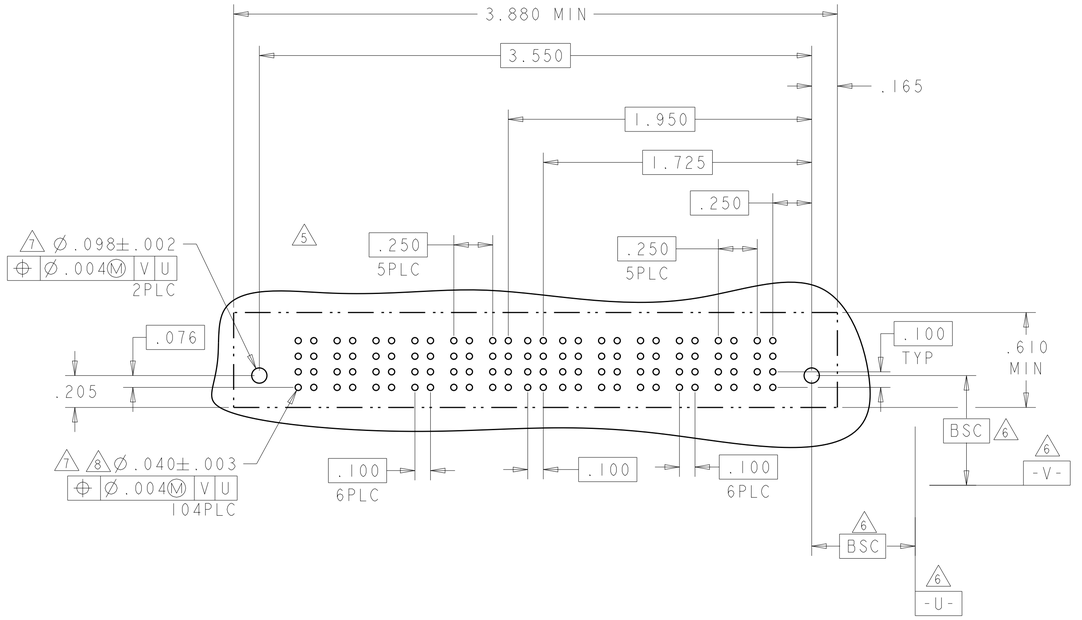
P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1	-	-	-

PART NUMBER	ROWS		POWER				SIGNAL		POWER					
			P8	P7	P6	P5	2	1	P4	P3	P2	P1		
2-6450140-9	D C B A	HD	VM	VM	VM	VM	E E E E	E E E E	VM	VM	VM	VM	HD	
4P + 8S + 4P														

(D)

PART NUMBER	ROWS		POWER						SIGNAL		POWER						
			P12	P11	P10	P9	P8	P7	2	1	P6	P5	P4	P3	P2	P1	
3-6450140-0	D C B A	HD	VM	VM	VM	VM	VM	VM	E E E E	E E E E	VM	VM	VM	VM	VM	VM	HD
6P+8S+6P																	





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DIMENSIONS: INCHES

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

MATERIAL - -
FINISH - -

DWN R.GRZYBOWSKI 15FEB05
CHK M.PERCHERKE 15FEB05
APVD M.PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

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NAME VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
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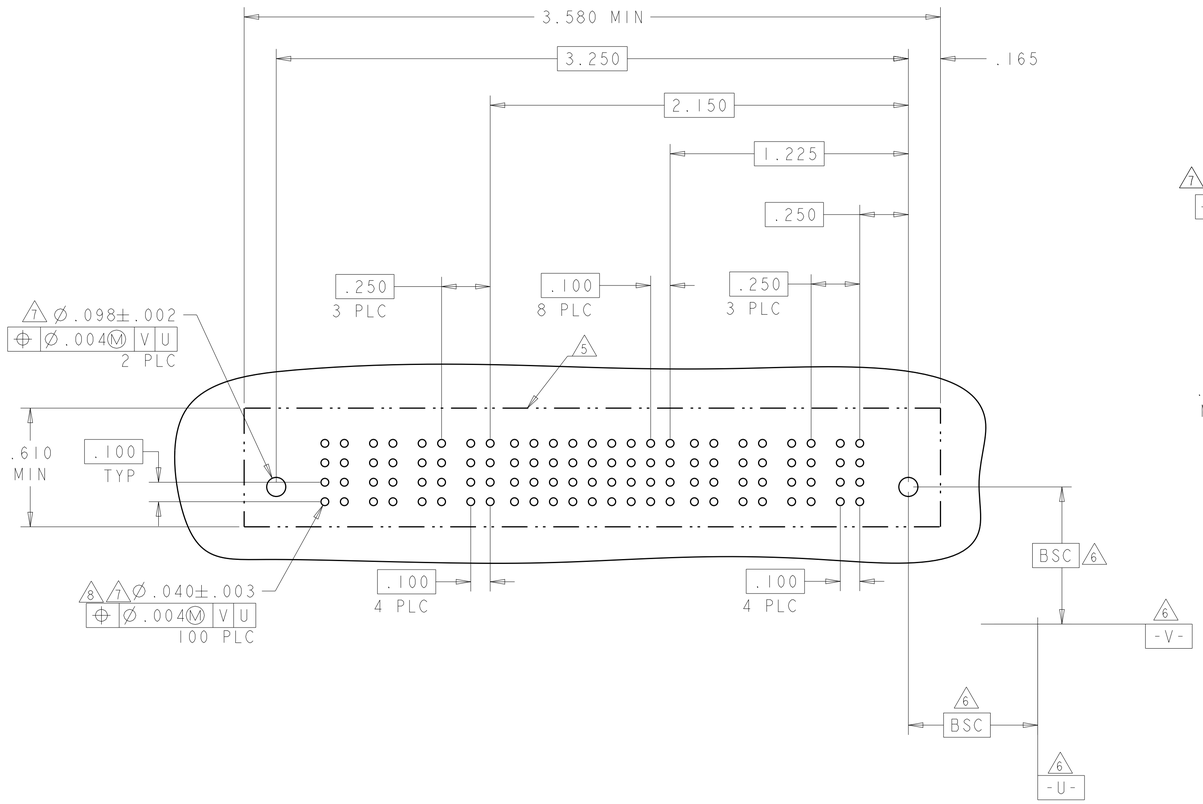
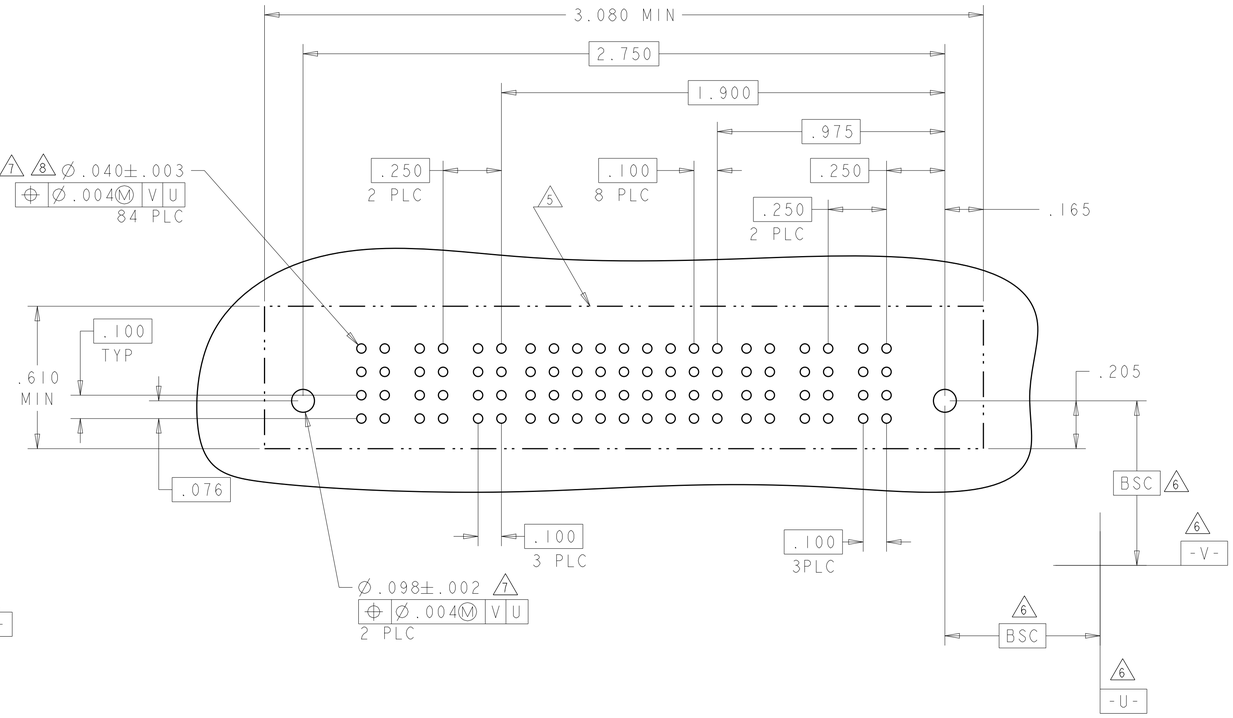
REVISIONS

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

PART NUMBER	ROWS		SIGNAL														
			P8	P7	P6	P5	9	8	7	6	5	4	3	2	1	P4	P3	P2	P1
3-6450140-1	D		VM	VM	VM	VM	E	E	E	E	E	E	E	E	E	VM	VM	VM	VM
	C						E	E	E	E	E	E	E	E	E				
	B						E	E	E	E	E	E	E	E	E				
	A						E	E	E	E	E	E	E	E	E				
4P + 36S + 4P		HD																	HD

PART NUMBER	ROWS		POWER			SIGNAL									POWER			
			P6	P5	P4	9	8	7	6	5	4	3	2	1	P3	P2	P1	
3-6450140-4	D		VM	VM	VM	E	E	E	E	E	E	E	E	E	VM	VM	VM	
	C					E	E	E	E	E	E	E	E	E				
	B					E	E	E	E	E	E	E	E	E				
	A	HD				E	E	E	E	E	E	E	E	E				HD
3P + 36S + 3P																		





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DIMENSIONS: INCHES

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

MATERIAL - -
FINISH - -

DWN R.GRZYBOWSKI 15FEB05
CHK M.PERCHERKE 15FEB05
APVD M.PERCHERKE -
PRODUCT SPEC 108-1973
APPLICATION SPEC 114-13038
WEIGHT -

TE Connectivity

NAME VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES MULTI-BEAM XL

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-6450140	-

CUSTOMER DRAWING | SCALE 2:1 | SHEET 11 OF 11 | REV E4