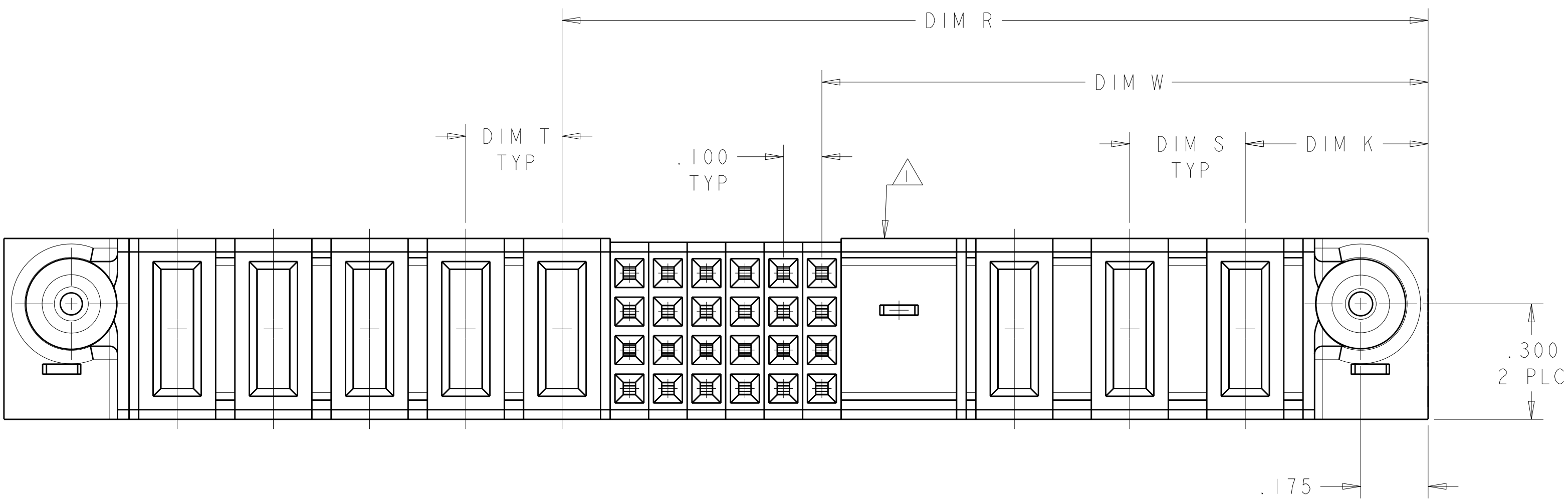
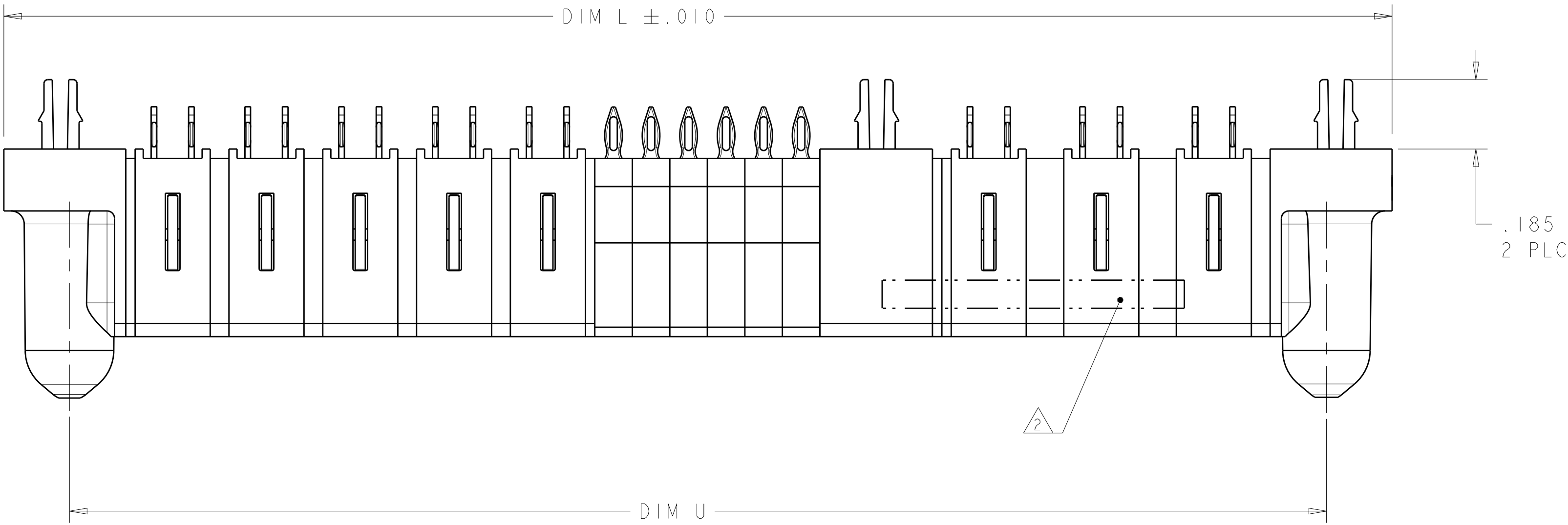
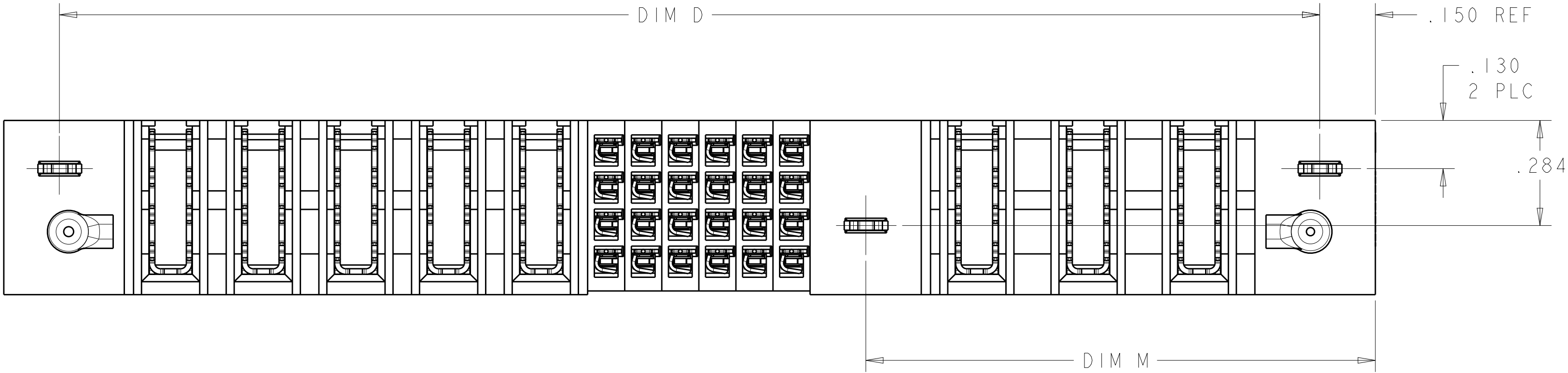
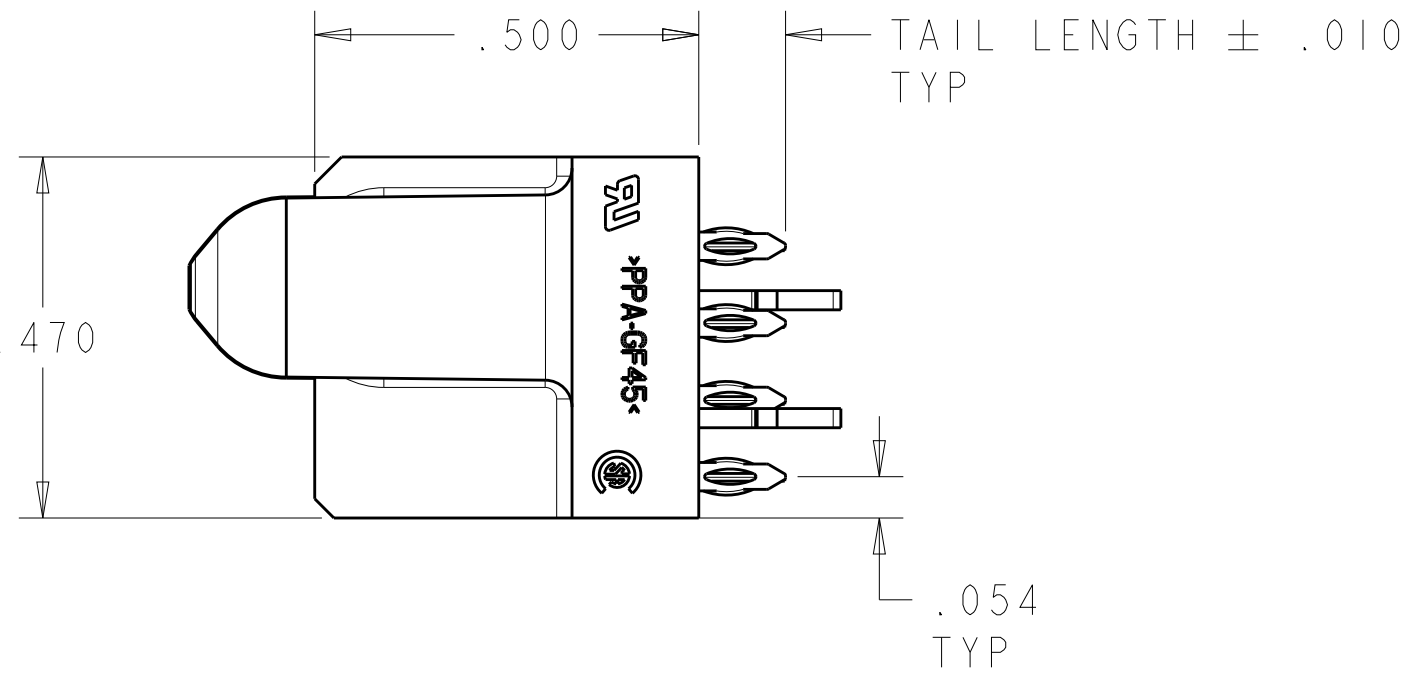


LOC		DIST		REVISIONS				
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD	
		U3		REV PER ECR-13-015977	14OCT2013	CZ	SZ	



- OPTIONAL CENTER MODULE, WITH Ø.150 THRU HOLE OR HOLD DOWN FEATURE
- "AMP", PART NUMBER, AND DATE CODE TO BE MARKED IN AREA SHOWN MARKING ON BOTH SIDES PERMITTED FOR PARTS UNDER 2.00 LONG
- MATERIAL: HOUSING - GLASS FILLED HIGH TEMP THERMO PLASTIC, UL94 V-O,BLACK
SIGNAL CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
POWER CONTACT - HIGH CONDUCTIVITY COPPER ALLOY
- CONTACT PLATING: NOBLE METAL PLATING ON CONTACT FUNCTIONAL AREA OF POWER AND SIGNAL CONTACTS
- MECHANICAL CONNECTOR KEEP OUT ZONE
- DATUM AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER
- PCB - ALL HOLE DIAMETERS ARE FINISHED HOLE SIZES
- PCB - .0453 ±.0010 DRILLED HOLES PLATED WITH .0003 MIN Sn OVER .001 TO .003 PLATING TO ACHIEVE A .040 HOLE
- VARIABLE DIMENSION SHOWN ON VIEW (SHEET 7,10)



THIS DRAWING IS A CONTROLLED DOCUMENT.				DWN	R.GRZYBOWSKI	02MAY05	TE Connectivity	
				CHK	M.PERCHERKE	02MAY05		
DIMENSIONS:		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD	M.PERCHERKE	-	NAME	
INCHES				PRODUCT SPEC		-	VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES, MULTI-BEAM XL	
				APPLICATION SPEC		-	SIZE	
				WEIGHT		-	CAGE CODE	
				CUSTOMER DRAWING		-	DRAWING NO	
						-	RESTRICTED TO	
						-	SCALE	
						-	SHEET	
						-	OF	
						-	23	
						-	REV	
						-	U3	

LOC	DIST	REVISIONS					
ES	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

-	4.300	4.250	.250	.250	3.150	1.875	4.600	.450	6P + 48S + 5P	7-6450550-3
-	3.850	3.800	.250	.250	2.950	1.375	4.150	.450	4P + 60S + 4P	7-6450550-2
-	1.950	1.900	.250	.250	1.550	.875	2.250	.450	2P + 24S + 2P	7-6450550-1
-	2.350	2.300	.250	.250	1.700	1.175	2.650	.450	3P + 16S + 3P	6-6450550-9
-	2.650	2.600	.250	.250	2.000	1.125	2.950	.450	3P + 32S + 3P	6-6450550-7
-	2.050	2.000	.250	.250	1.650	.925	2.350	.450	2P + 24S + 2P	6-6450550-6
-	5.450	5.400	.250	.250	3.300	2.625	5.750	.450	9P + 24S + 9P	6-6450550-5
-	2.250	2.20	.250	.250	1.350	.875	2.550	.450	2P + 16S + 4P	6-6450550-4
-	4.450	4.400	.250	.250	2.800	2.125	4.750	.450	7P + 24S + 7P	6-6450550-3
-	-	3.950	.250	.200	2.125	1.025	4.300	.425	3P + 40S + 8P	6-6450550-2
-	5.450	5.400	.250	.250	3.300	2.625	5.750	.450	9P + 24S + 9P	6-6450550-1
-	3.300	3.250	.250	.250	2.400	1.675	3.600	.450	5P + 24S + 4P	6-6450550-0
-	3.300	3.250	.250	.250	2.150	1.425	3.600	.450	4P + 24S + 5P	5-6450550-9
-	2.150	2.100	-	.250	1.750	.875	2.450	.450	2P + 32S + 2P	5-6450550-8
-	3.050	3.000	.250	.250	2.150	1.425	3.350	.450	4P + 24S + 4P	5-6450550-7
-	2.250	2.200	.200	.200	1.725	1.025	2.550	.425	3P + 24S + 3P	5-6450550-6
-	3.300	3.250	.250	.250	2.150	1.425	3.600	.450	4P + 24S + 5P	5-6450550-5
-	2.250	2.200	.250	.250	1.350	.875	2.550	.450	2P + 16S + 4P	5-6450550-4
-	-	3.050	.250	.300	1.950	1.275	3.400	.475	3ACP + 24S + 5P	5-6450550-3
-	1.950	1.900	.250	.250	1.550	.875	2.250	.450	2P +24S + 2P	5-6450550-0
-	-	6.300			3.925	3.275	6.650	.425	14P + 24S + 12P	4-6450550-9
-	1.950	1.900	.250	.250	1.550	.875	2.250	.450	2P + 24S + 2P	4-6450550-7
-	3.950	3.900	.250	.250	2.550	1.875	4.250	.450	6P + 24S + 6P	4-6450550-5
-	-	2.400	.250	.250	1.550	1.375	2.750	.450	4P + 4S + 4P	4-6450550-2
-	-	2.400	.250	.250	1.550	.875	2.750	.450	2P + 24S + 4P	4-6450550-0
-	-	3.100	.200	.200	2.225	1.375	3.450	.425	5P + 32S + 5P	3-6450550-5
-	-	5.450			3.075	2.425	5.800	.425	10P + 24S + 12P	3-6450550-2
-	3.350	3.300	.250	.250	2.450	1.375	3.650	.450	4P + 40S + 4P	2-6450550-9
-	-	3.100	.200	.200	2.225	1.375	3.450	.425	5P + 32S + 5P	2-6450550-8
-	-	2.100	.250	.300	1.750	1.275	2.450	.475	3ACP + 16S + 2P	2-6450550-4
-	-	2.250	.250	.200	1.900	1.225	2.600	.450	4P + 24S + 2P	1-6450550-9
-	4.325	4.275	.250		3.175	2.500	4.625	.475	2ACP + 6P + 24S + 5P	1-6450550-8
-	-	1.575	-	-	1.425	.700	1.925	.475	1P +24S + 1P	1-6450550-7
-	-	2.500	.250	.250	2.150	1.425	2.850	.450	4P + 24S + 2P	1-6450550-6
-	1.950	1.900	.250	.250	1.550	.875	2.250	.450	2P + 24S + 2P	1-6450550-5
-	2.850	2.800	.300	.250	2.075	1.375	3.150	.450	4P + 24S + 3ACP	1-6450550-4
-	3.550	3.500	.200	.200	2.225	1.775	3.850	.425	7P + 16S + 7P	1-6450550-3
-	4.450	4.400	.250	.250	4.050	.875	4.750	.450	2P + 124S + 2P	1-6450550-2
-	4.550	4.500	.250	.300	1.650	.975	4.850	.475	2ACP + 24S + 12P	1-6450550-1
-	2.550	2.500	.250	.250	2.150	.875	2.850	.450	2P + 48S + 2P	1-6450550-0
-	-	4.050	.300	.250	3.350	2.875	4.400	.450	10P + 16S + 3ACP	6450550-8
-	-	3.950	.250	.200	2.125	1.025	4.300	.425	3P + 40S + 8P	6450550-7
-	-	4.050	-	.250	3.950	.875	4.400	.450	2P + 120S + 1P	6450550-6
-	-	3.250	-	.250	3.150	.875	3.600	.450	2P + 88S + 1P	6450550-5
-	-	1.400	-	-	1.300	.625	1.750	.450	1P + 24S + 1P	6450550-4
-	-	2.900	.250	.250	2.550	.875	3.250	.450	2P + 64S + 2P	6450550-3
-	-	2.550	.300	.250	1.825	1.125	2.900	.450	3P + 24S + 3ACP	6450550-2
-	-	3.050	.250	.300	1.950	1.275	3.400	.475	3ACP + 24S + 5P	6450550-1
M	D	U	T	S	R	W	L	K	DESCRIPTION	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.
TOLERANCES UNLESS OTHERWISE SPECIFIED:

DIMENSIONS:
INCHES

MATERIAL

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

DWN
R. GRZYBOWSKI
CHK
M. PERCHERKE
APVD
M. PERCHERKE

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

CUSTOMER DRAWING

02MAY05
02MAY05
-

NAME
VERTICAL RECEPTACLE ASSEMBLY
WITH GUIDES, MULTI-BEAM XL
-

SIZE
A1

CAGE CODE
100779

DRAWING NO
6450550

RESTRICTED TO
-

SCALE
4:1

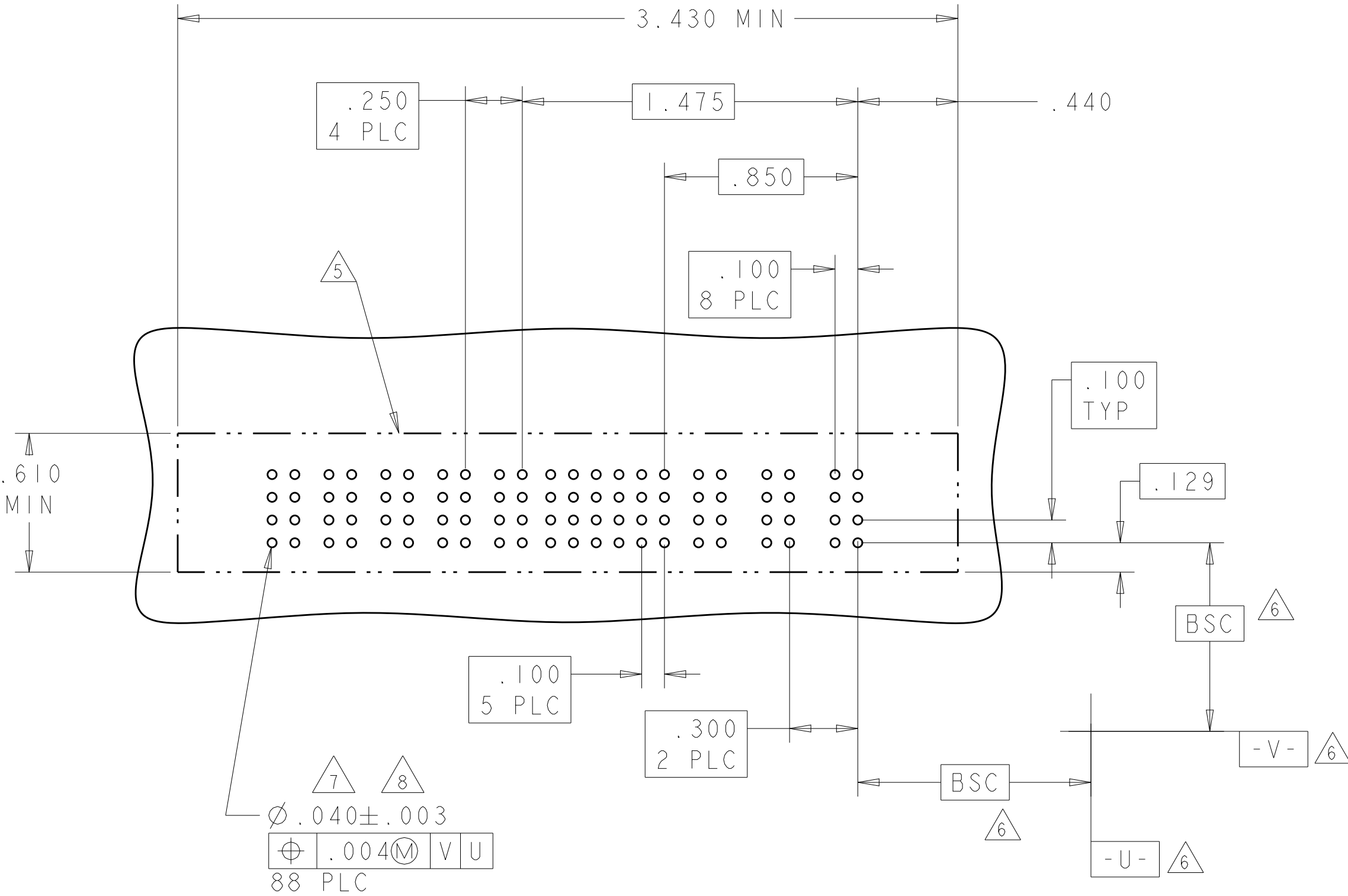
SHEET
2

OF
23

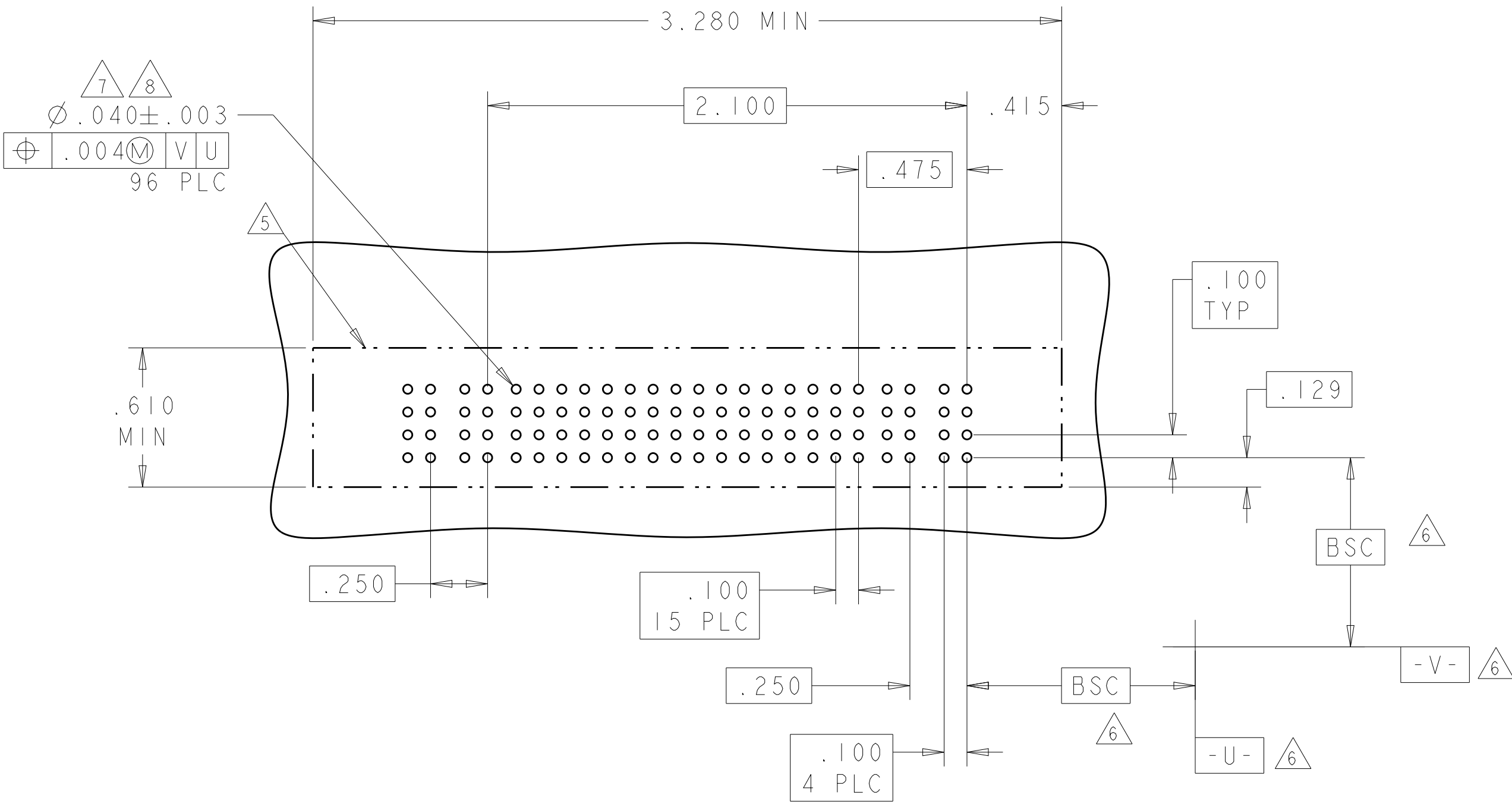
REV
U3

4805 (3/11)

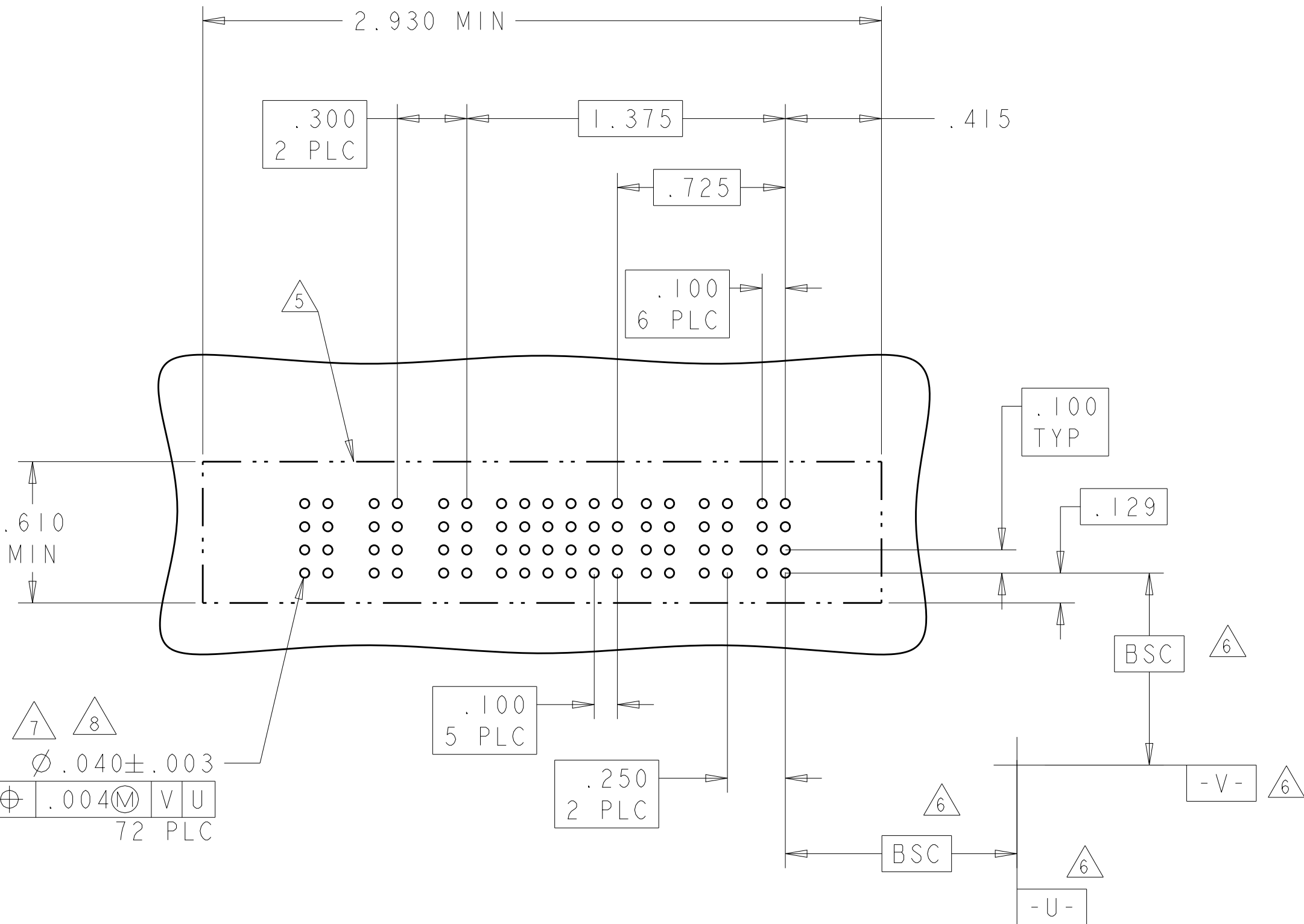
PART NUMBER	ROWS		POWER (L)					SIGNAL					POWER (R)			
			P8	P7	P6	P5	P4	6	5	4	3	2	1	P3	P2	
6450550-1	D C B A															
3ACP + 24S + 5P																



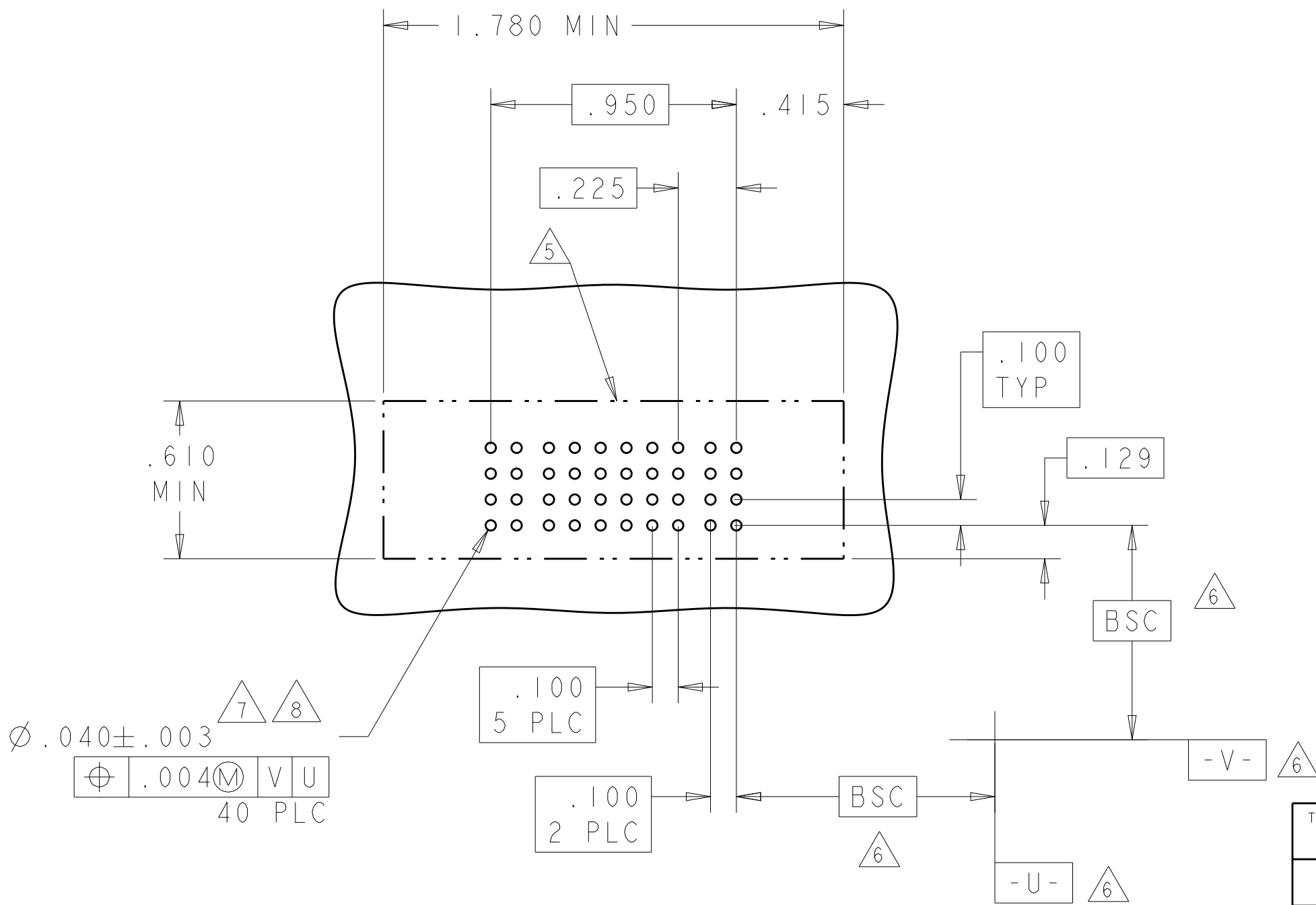
PART NUMBER	ROWS		POWER (L)		SIGNAL																POWER (R)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			P4	P3	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	P2	P1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
6450550-3	D C B A		GP	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP



PART NUMBER	ROWS		POWER (L)			SIGNAL					POWER (R)					
			P6	P5	P4	6	5	4	3	2	1	P3	P2		P1	
6450550-2	D C B A		 GP	 GS	 GS		AP	AP	AP	AP	AP	AP	 GS	 GS	 GS	
							AP	AP	AP	AP	AP	AP				
							AP	AP	AP	AP	AP	AP				
							AP	AP	AP	AP	AP	AP				
3P + 24S + 3ACP																



PART NUMBER	ROWS		SIGNAL								POWER (L)		POWER (R)		
			P2	6	5	4	3	2	1	P1					
6450550-4	D C B A		GP	AP	AP	AP	AP	AP	AP	AP	GP				
				AP	AP	AP	AP	AP	AP						
				AP	AP	AP	AP	AP	AP						
				AP	AP	AP	AP	AP	AP						
1P + 24S + 1P															

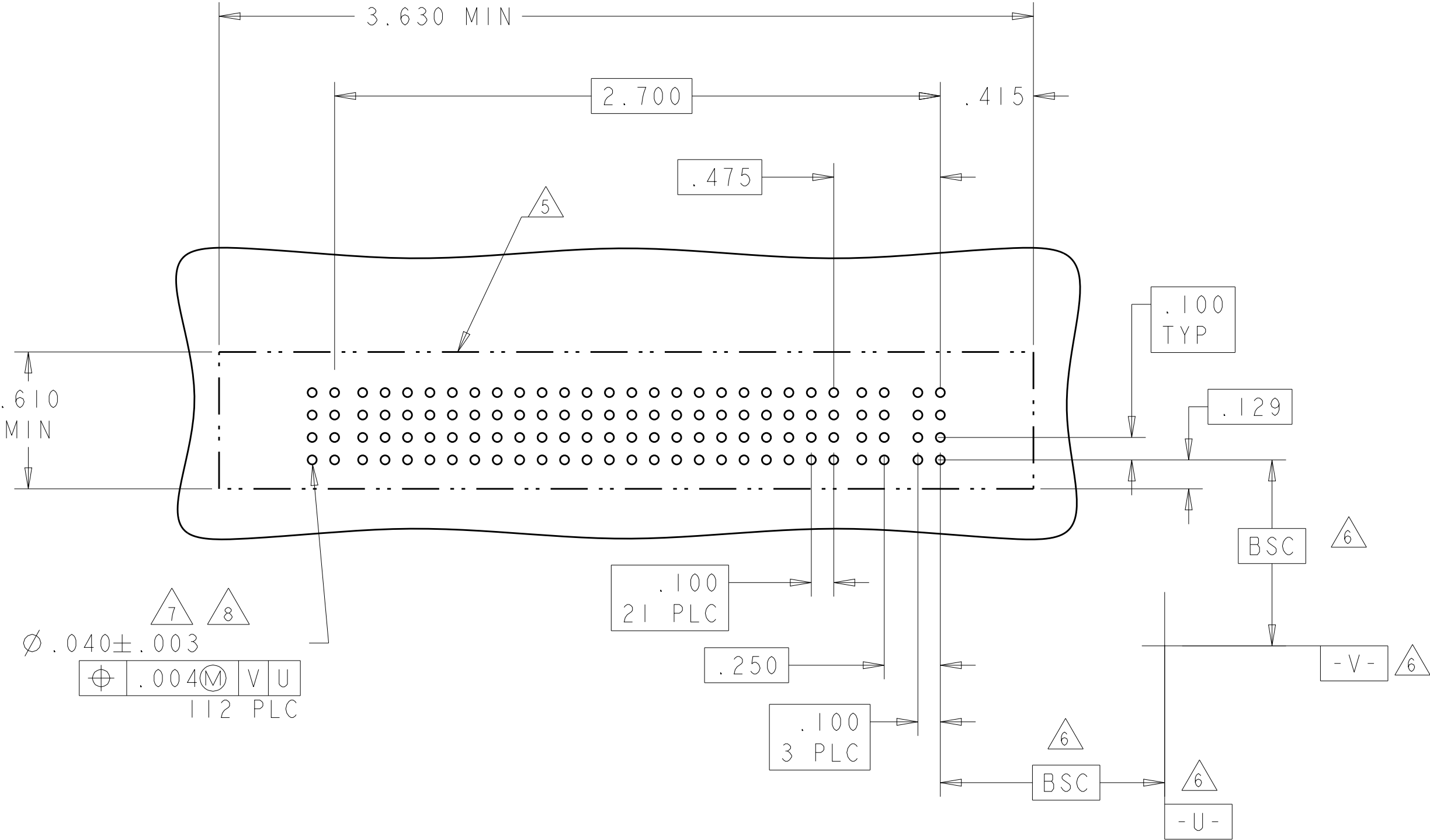


VP	POWER CONTACT MFBL	.115
VS	POWER CONTACT STD	.115
P	SINGAL CONTACT	.115
AT	SIGNAL CONTACT	.135
PT	POWER CONTACT MFBL	.135
ST	POWER CONTACT STD	.135
BP	SIGNAL CONTACT	.165
HS	POWER CONTACT, STD	.165
HP	POWER CONTACT, MFBL	.165
AP	SIGNAL CONTACT	.135
GS	POWER CONTACT, STD	.135
GP	POWER CONTACT, MFBL	.135
CODE	DESCRIPTION	TAIL LENGTH

CONTACT TALE

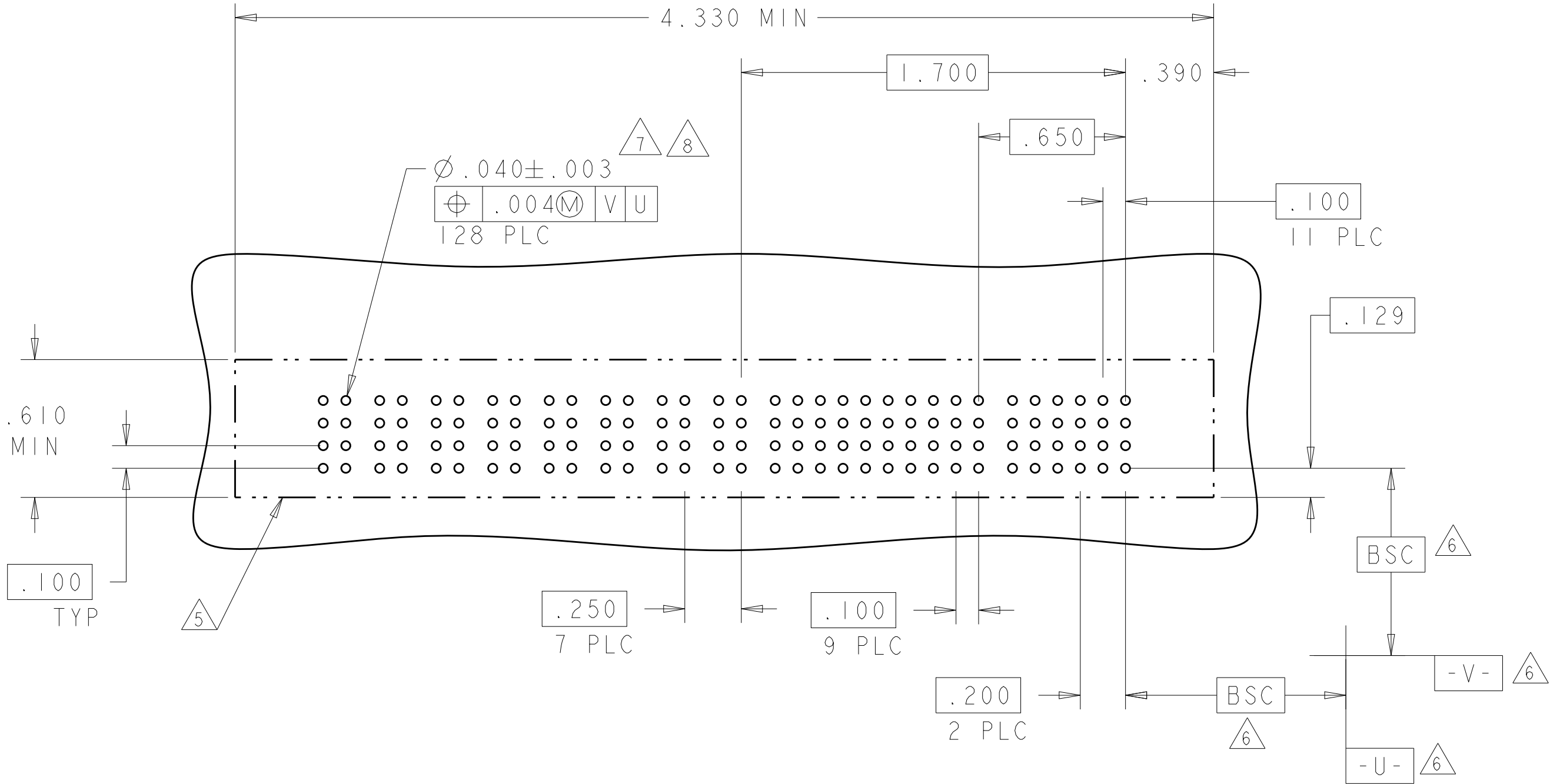
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI	02MAY05		
		CHK M. PERCHERKE	02MAY05		
		APVD M. PERCHERKE	-	NAME	
		PRODUCT SPEC			
		108-1973			
		APPLICATION SPEC			
		114-13038			
		ANGLES			
		FINISH			
MATERIAL		WEIGHT			
		-			
CUSTOMER DRAWING		SCALE		SHEET	
		4:1		3 OF 23	
				REV	
				U3	

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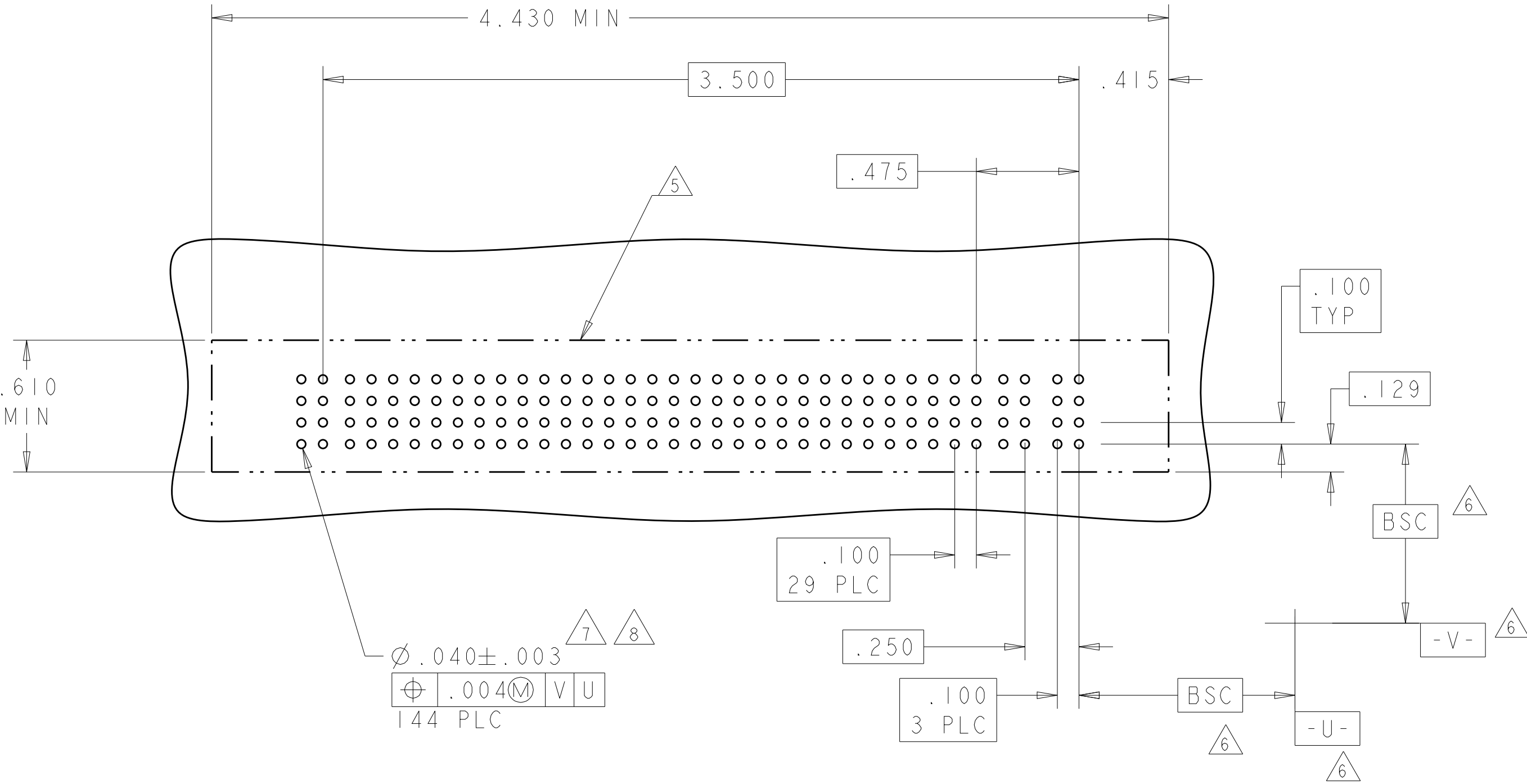


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THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI 02MAY05		
		CHK M. PERCHERKE 02MAY05		
DIMENSIONS:		APVD M. PERCHERKE	NAME	
INCHES		PRODUCT SPEC	VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES, MULTI-BEAM XL	
		108-1973		
		APPLICATION SPEC		
		114-13038		
MATERIAL		WEIGHT	A100779C=6450550	
		CUSTOMER DRAWING	SCALE 4:1 SHEET 4 OF 23 REV U3	

Technical drawing of a mechanical part, likely a cylindrical component, showing dimensions and tolerances. The drawing includes a central section with a grid of holes and a cross-section view on the right.

Dimensions and Tolerances:

- Overall length: 4.430 MIN
- Distance from left face to first hole: 2.900
- Distance between holes: 2.475
- Distance from last hole to right face: .415
- Left face thickness: .300 (2 PLC)
- Distance from left face to first hole: .100 (3 PLC)
- Distance between holes: .250 (9 PLC)
- Right face thickness: .129
- Left face thickness: .100 TYP
- Distance from left face to first hole: .100 (3 PLC)
- Distance from last hole to right face: .100 (13 PLC)

Surface Tolerances:

- Surface 5: $\Delta 5$
- Surface 6: $\Delta 6$
- Surface 7: $\Delta 7$
- Surface 8: $\Delta 8$

Feature Tolerances:

- Feature 1: $\varnothing .040 \pm .003$ (120 PLC)
- Feature 2: $\varnothing .004$ (M) (V) (U)

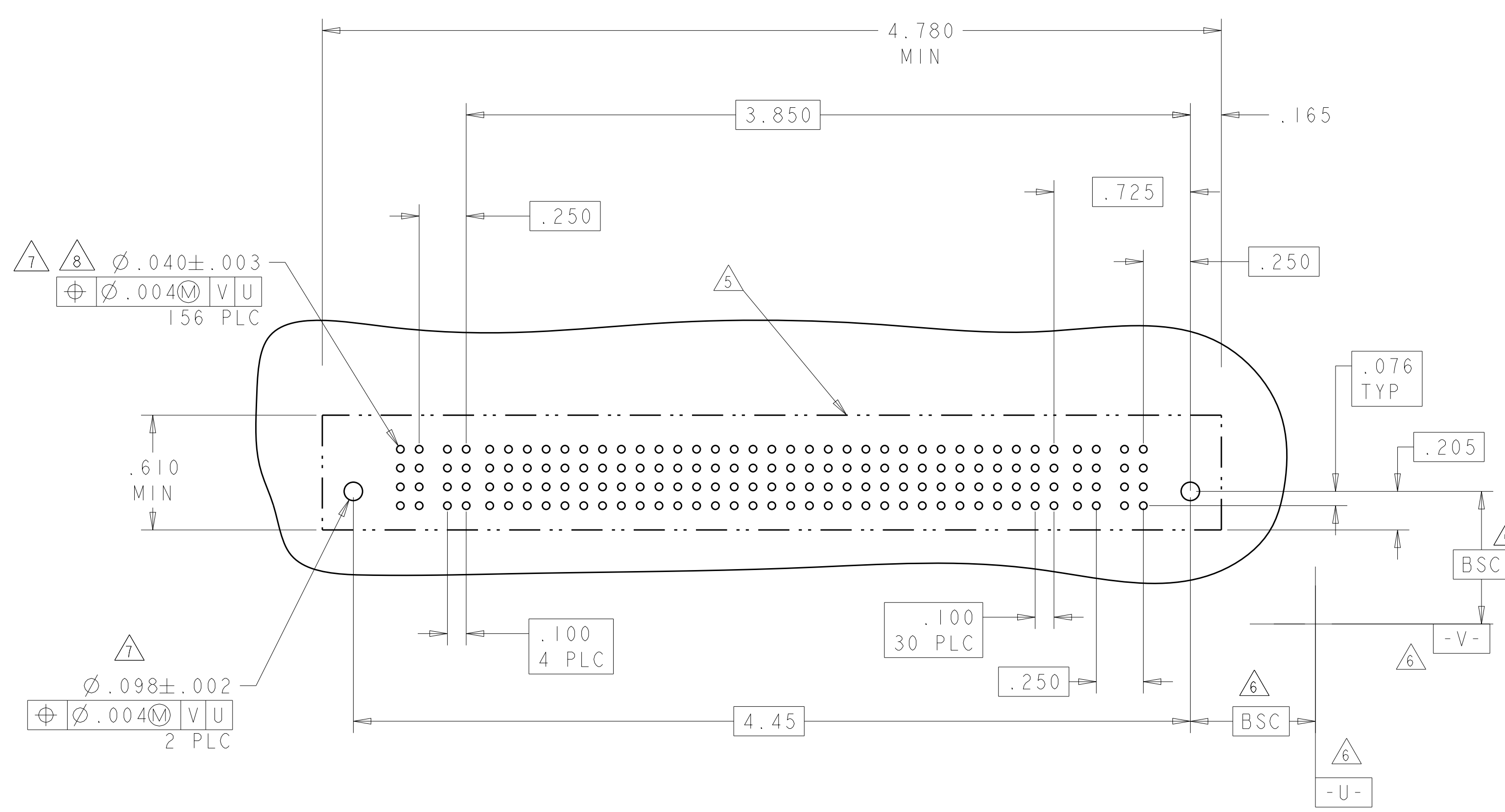
Other Features:

- Feature 3: BSC (Bore Surface Center)
- Feature 4: -U-
- Feature 5: -V-

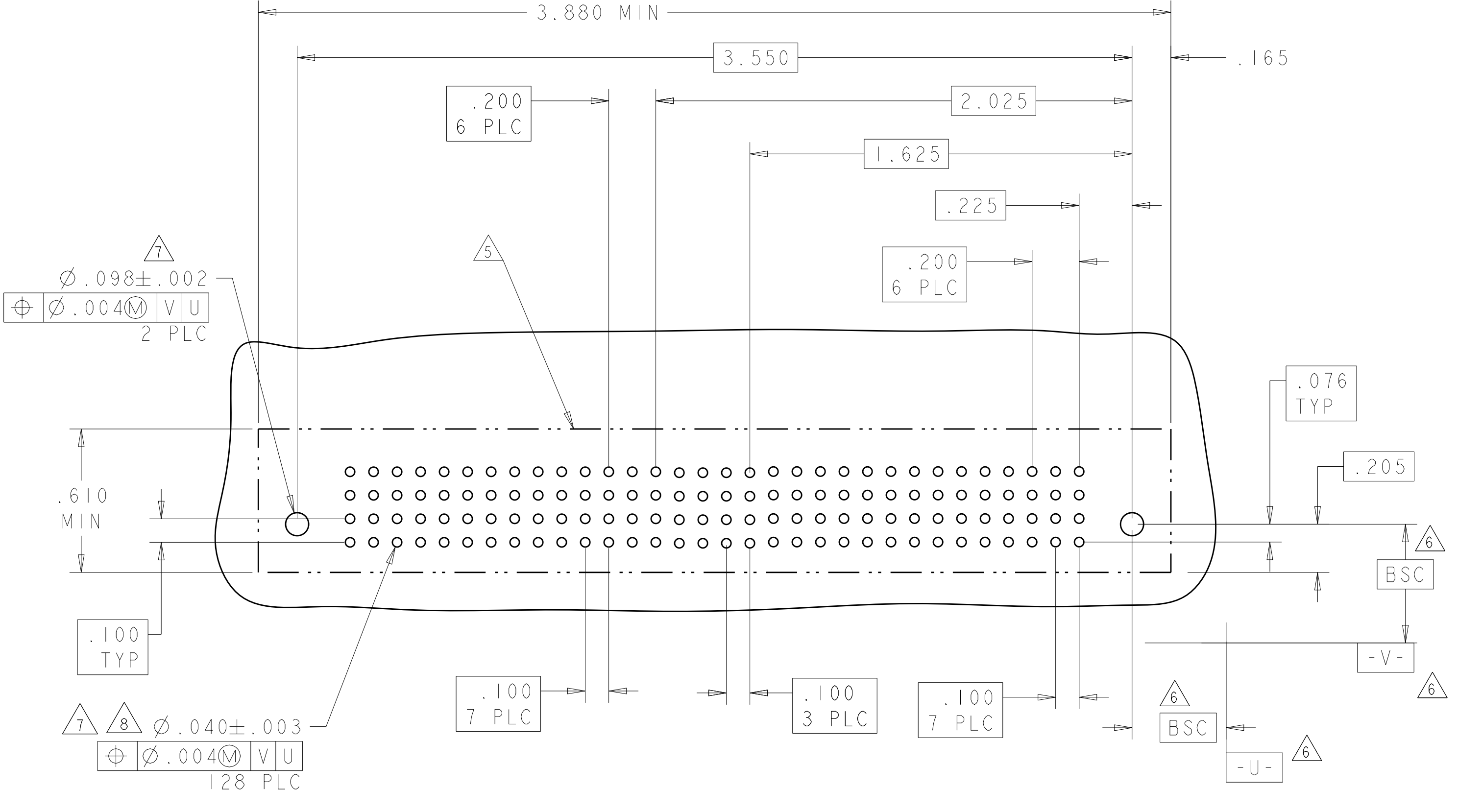
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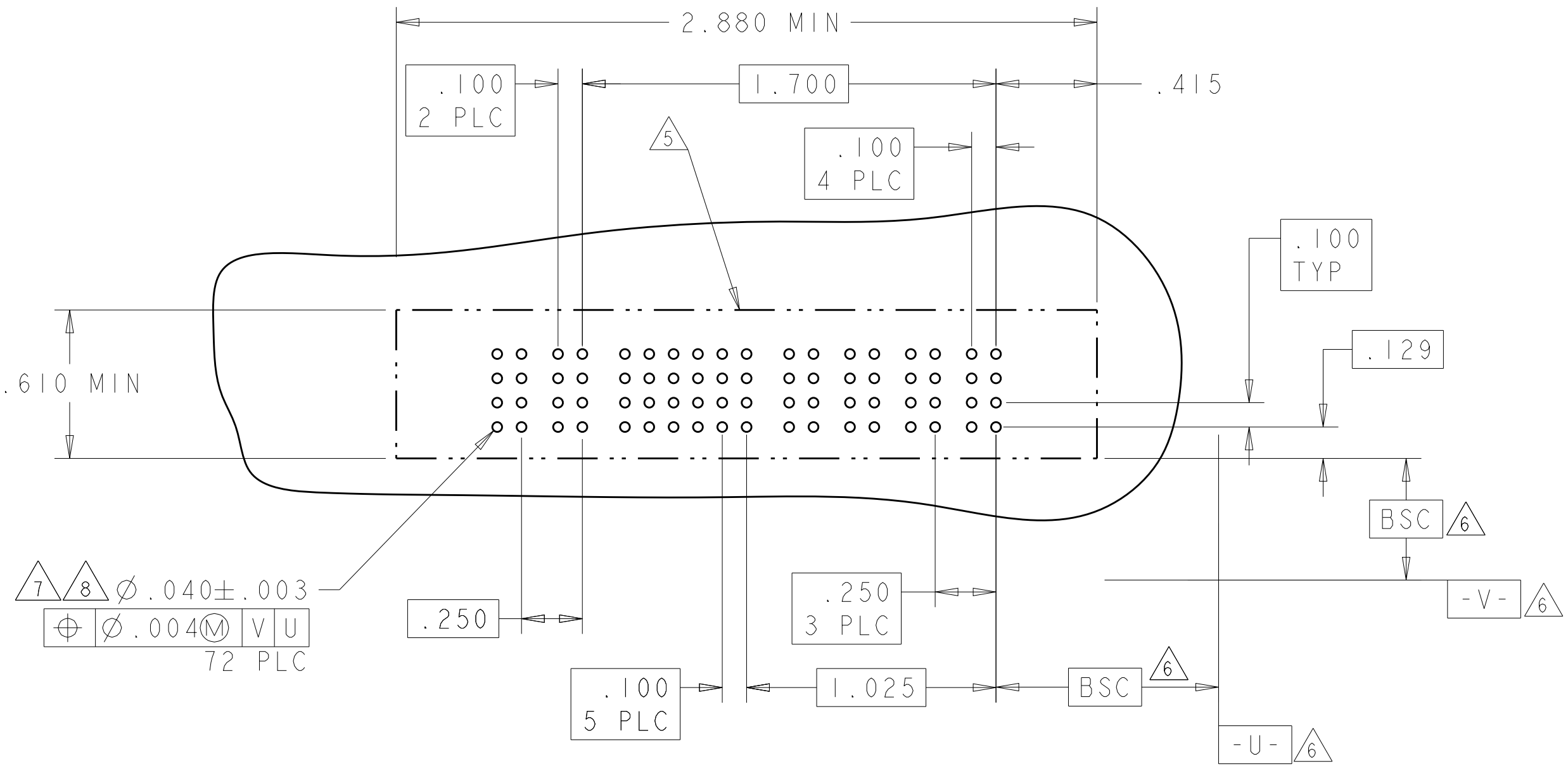
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1-6450550-2	D C B A				AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP



PART NUMBER	ROWS		POWER								SIGNAL				POWER								
			P14	P13	P12	P11	P10	P9	P8	4	3	2	1	P7	P6	P5	P4	P3	P2	P1			
1-6450550-3	D C B A									AP	AP	AP	AP										
										AP	AP	AP	AP										
										AP	AP	AP	AP										
										AP	AP	AP	AP										
7P + 16S + 7P																							



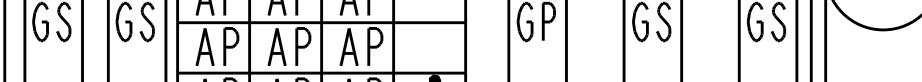
PART NUMBER	ROWS		POWER		SIGNAL						POWER				
			P6	P5	6	5	4	3	2	1	P4	P3	P2	P1	
1-6450550-6	D C B A		GP	GS	AP	AP	AP	AP	AP	AP	GS	GP	GS	GP	
					AP	AP	AP	AP	AP	AP					
					AP	AP	AP	AP	AP	AP					
					AP	AP	AP	AP	AP	AP					
4P + 24S + 2P															

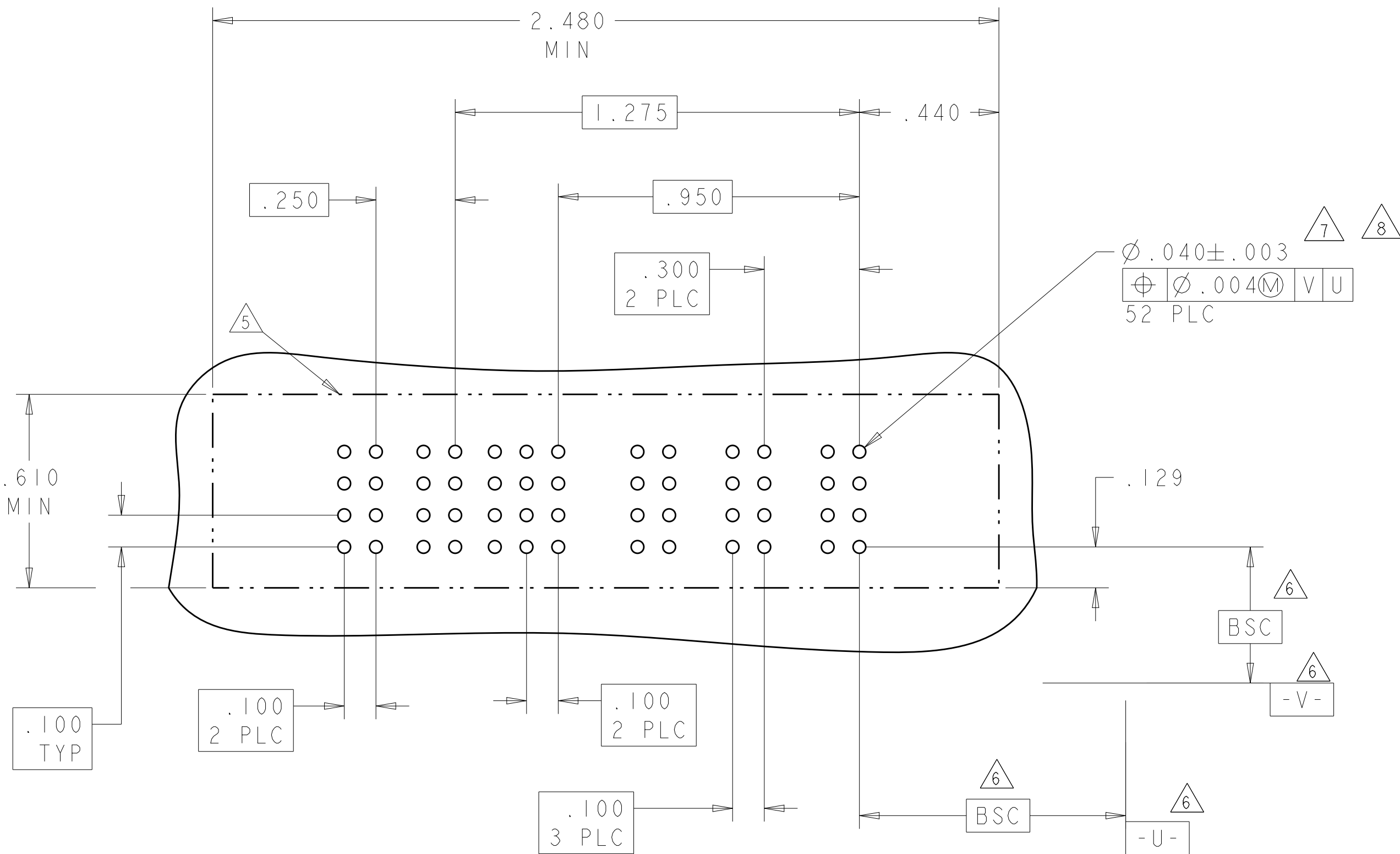


THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI	02MAY05	TE Connectivity	
DIMENSIONS: INCHES		CHK M. PERCHERKE	02MAY05		
		APVD M. PERCHERKE	-	NAME VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES, MULTI-BEAM XL	
		PRODUCT SPEC 108-1973		APPLICATION SPEC 114-13038	
MATERIAL		WEIGHT		SIZE A100779	CAGE CODE C=6450550
FINISH		CUSTOMER DRAWING		SCALE 4:1	SHEET 6 OF 23
				REV U3	

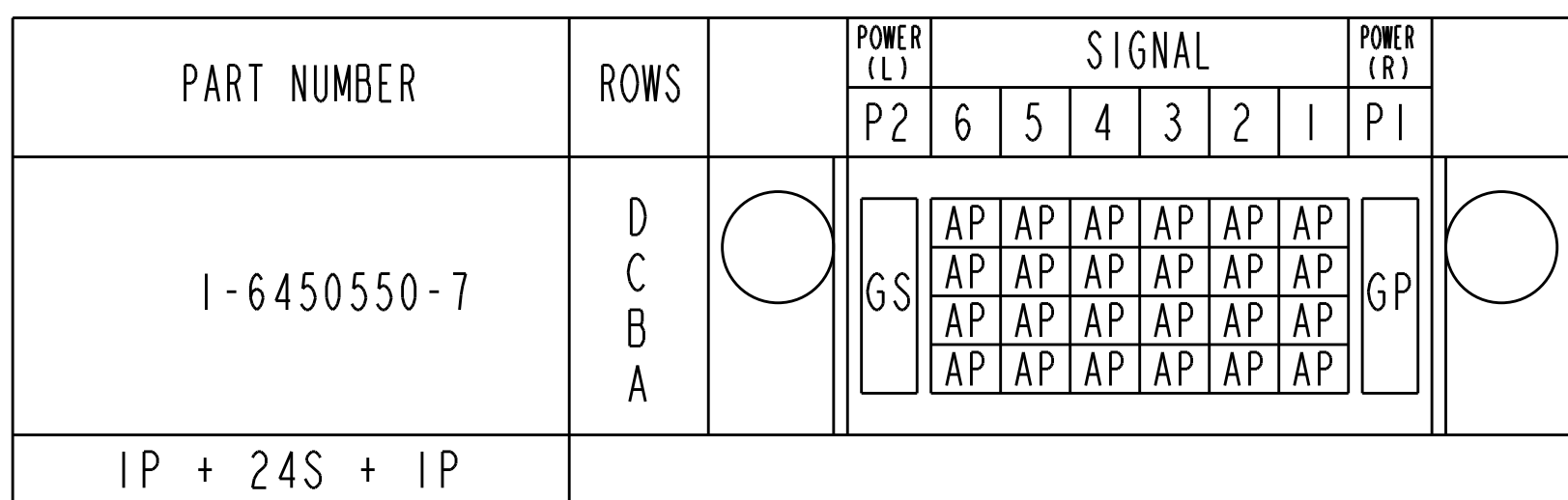
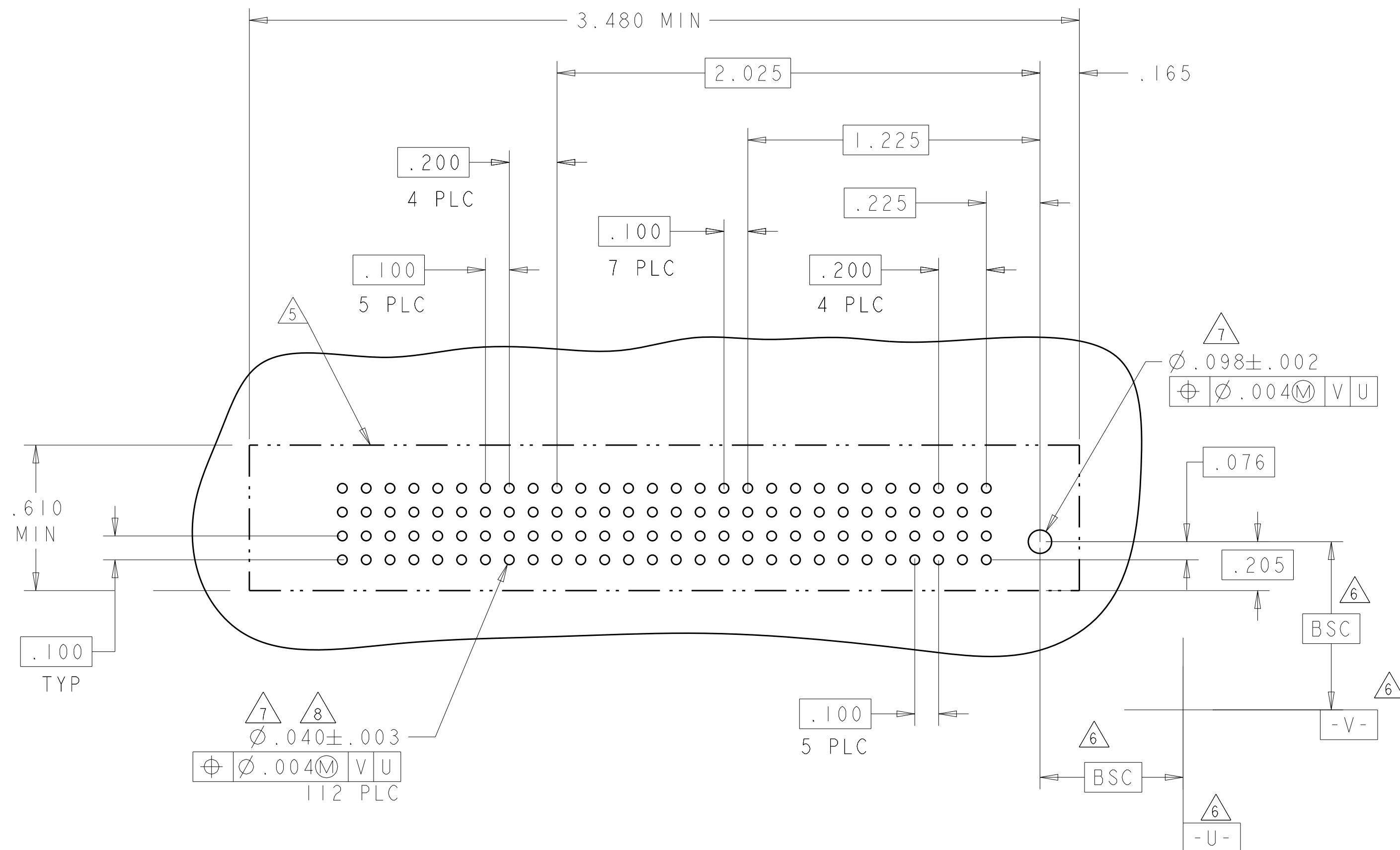
Technical drawing of a rectangular plate with a grid of holes. The drawing includes dimensions for overall size (4.655 MIN), hole spacing (2.700, 2.075, .440), and hole diameter (.250). It also shows a grid of 13 columns and 4 rows of holes. A section line A-A is indicated. A table in the top right corner shows 'ES 00' and 'SEE SHEET'.

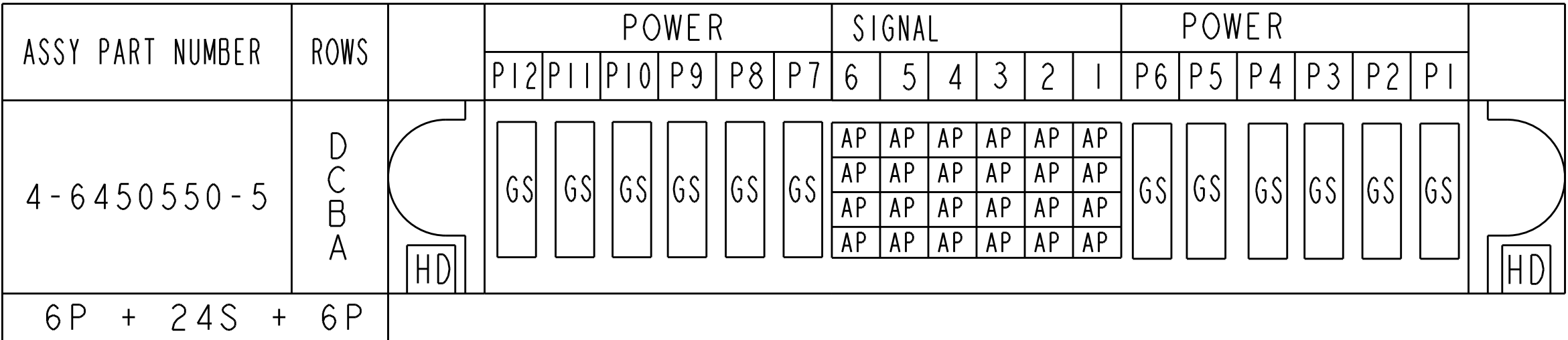
ES	00	P	LTR
		-	SEE SHEET

PART NUMBER	ROWS		POWER		SIGNAL				POWER				
			P5	P4	4	3	2	1	P3	P2	P1		
2-6450550-4	D C B A				AP	AP	AP						
3ACP + 16S + 2P													

4805 (3/11)

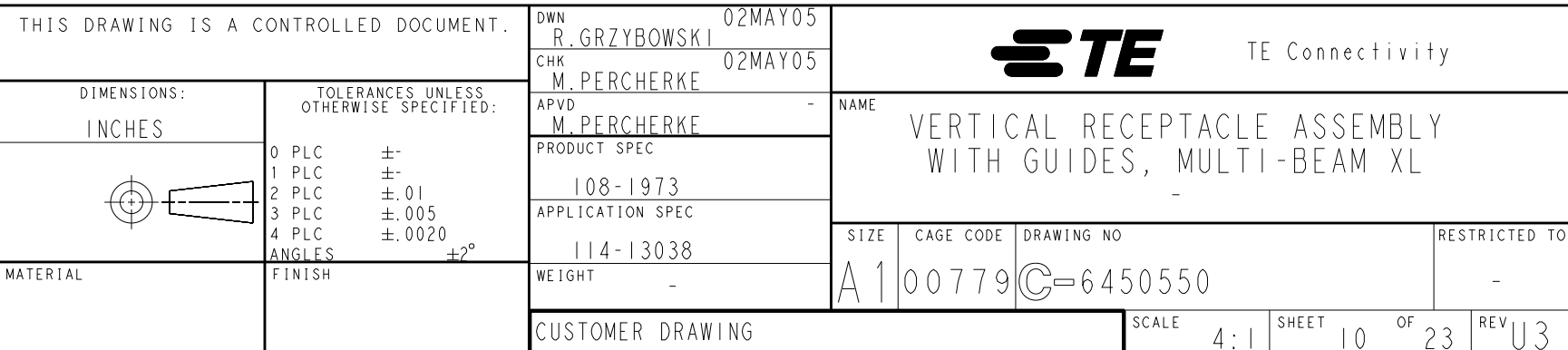
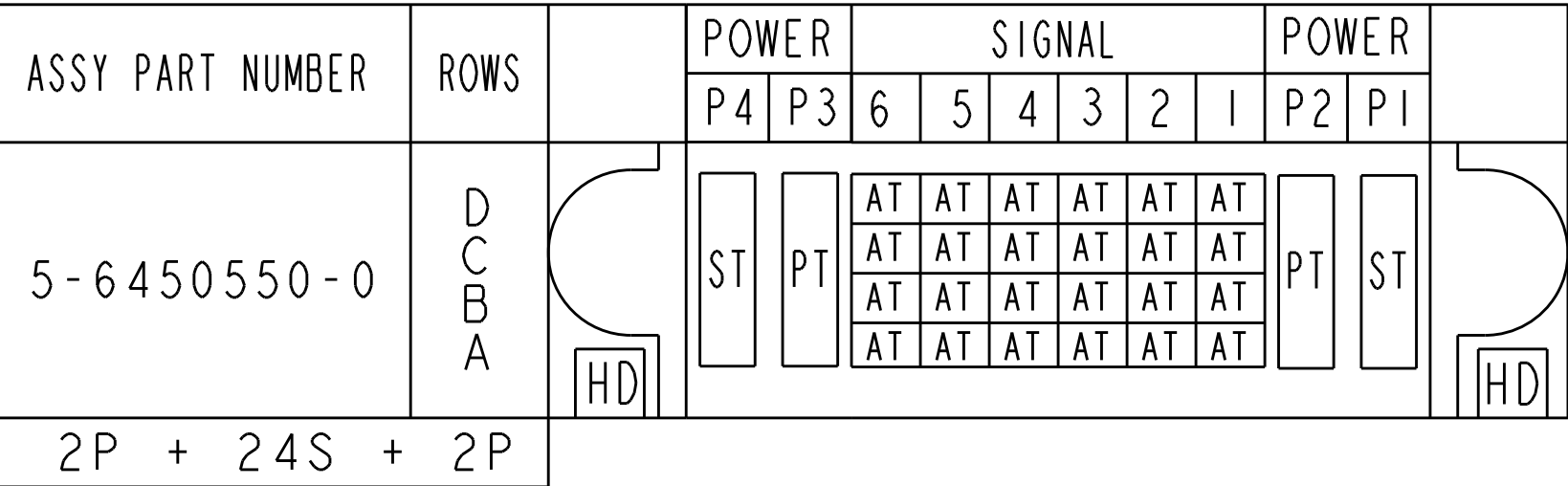
PART NUMBER	ROWS		POWER					SIGNAL							POWER					
			P10	P9	P8	P7	P6	8	7	6	5	4	3	2	1	P5	P4	P3	P2	
3-6450550-5	D C B A																			
5P + 32S + 5P																				

4805 (3/11)

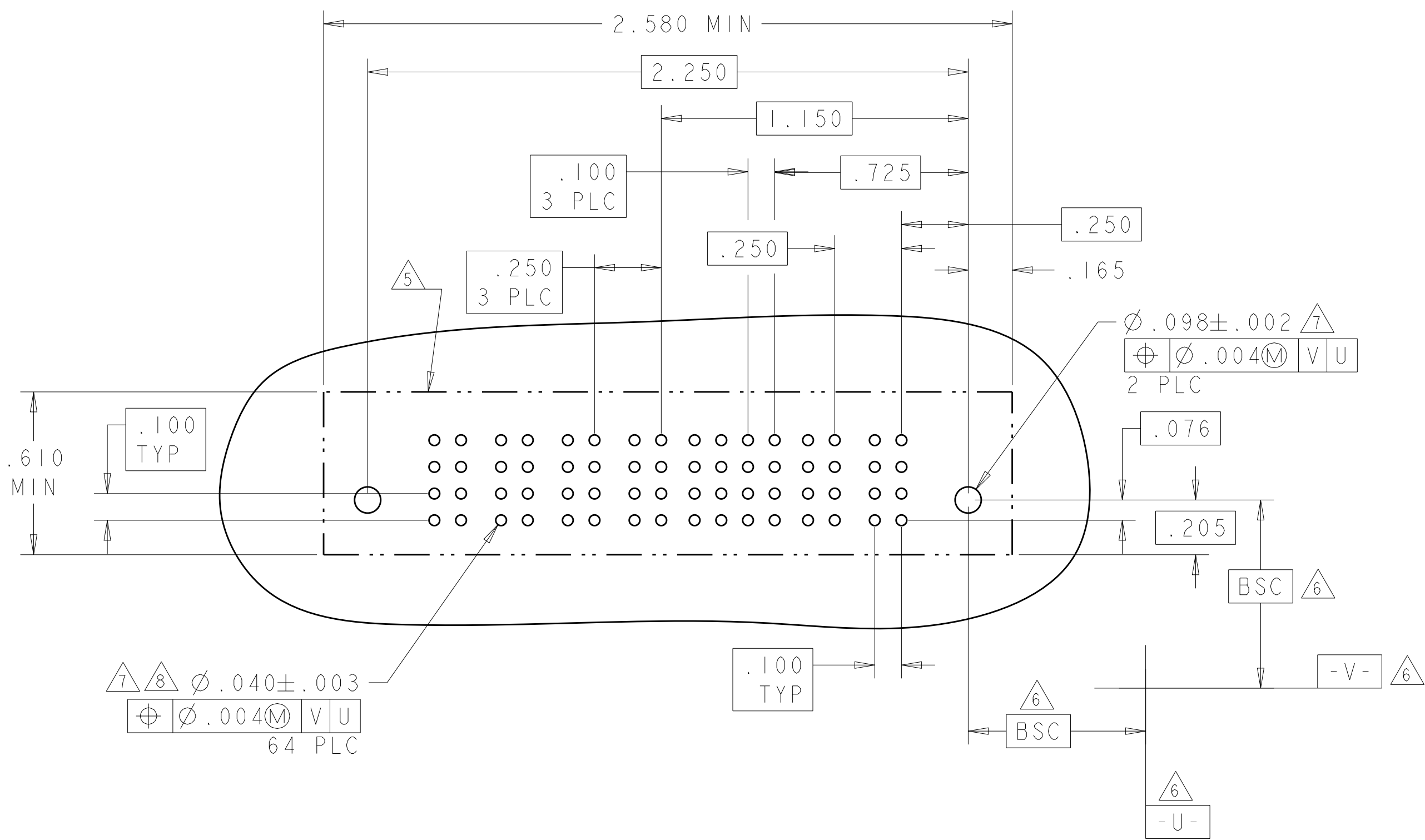


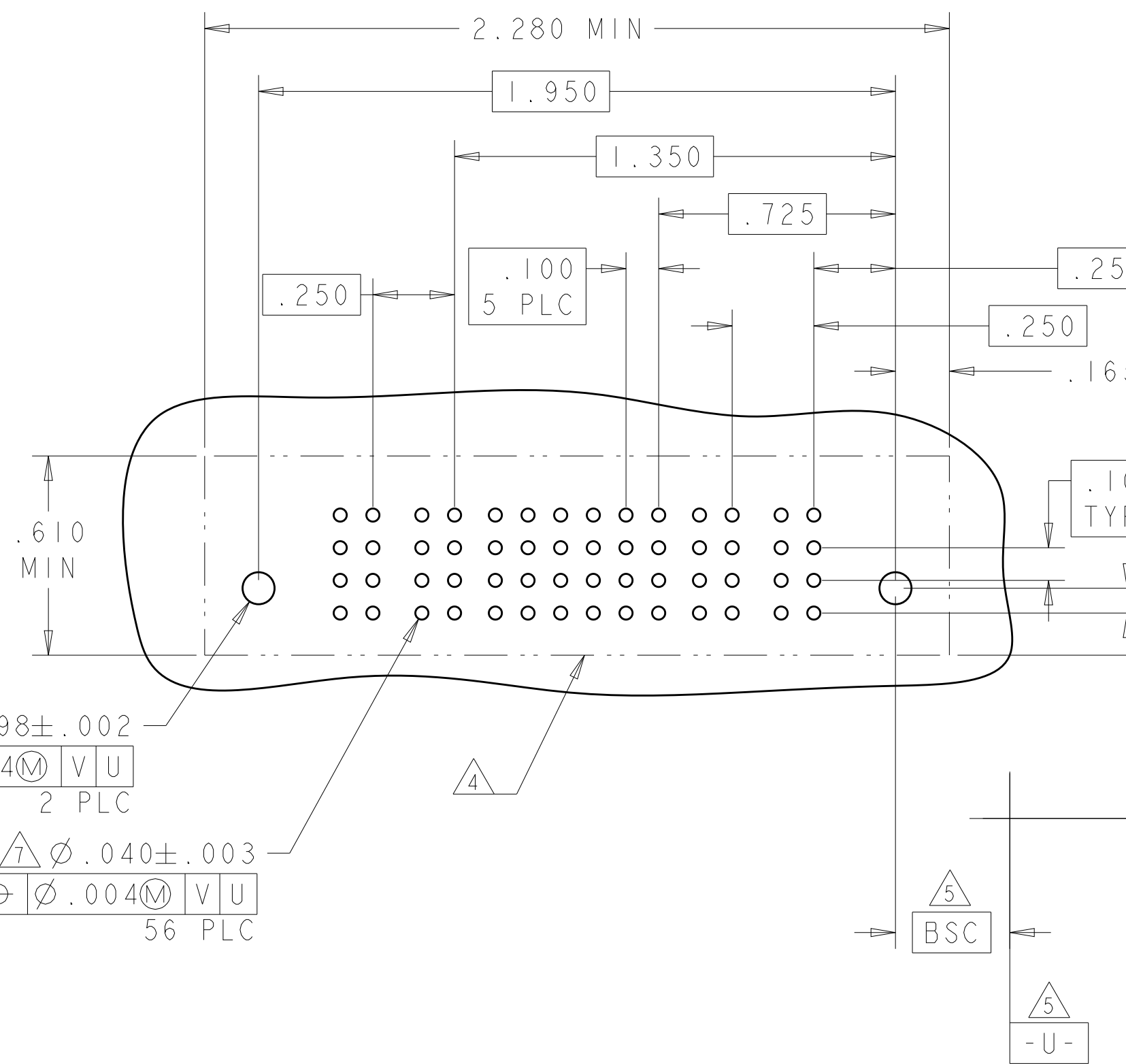
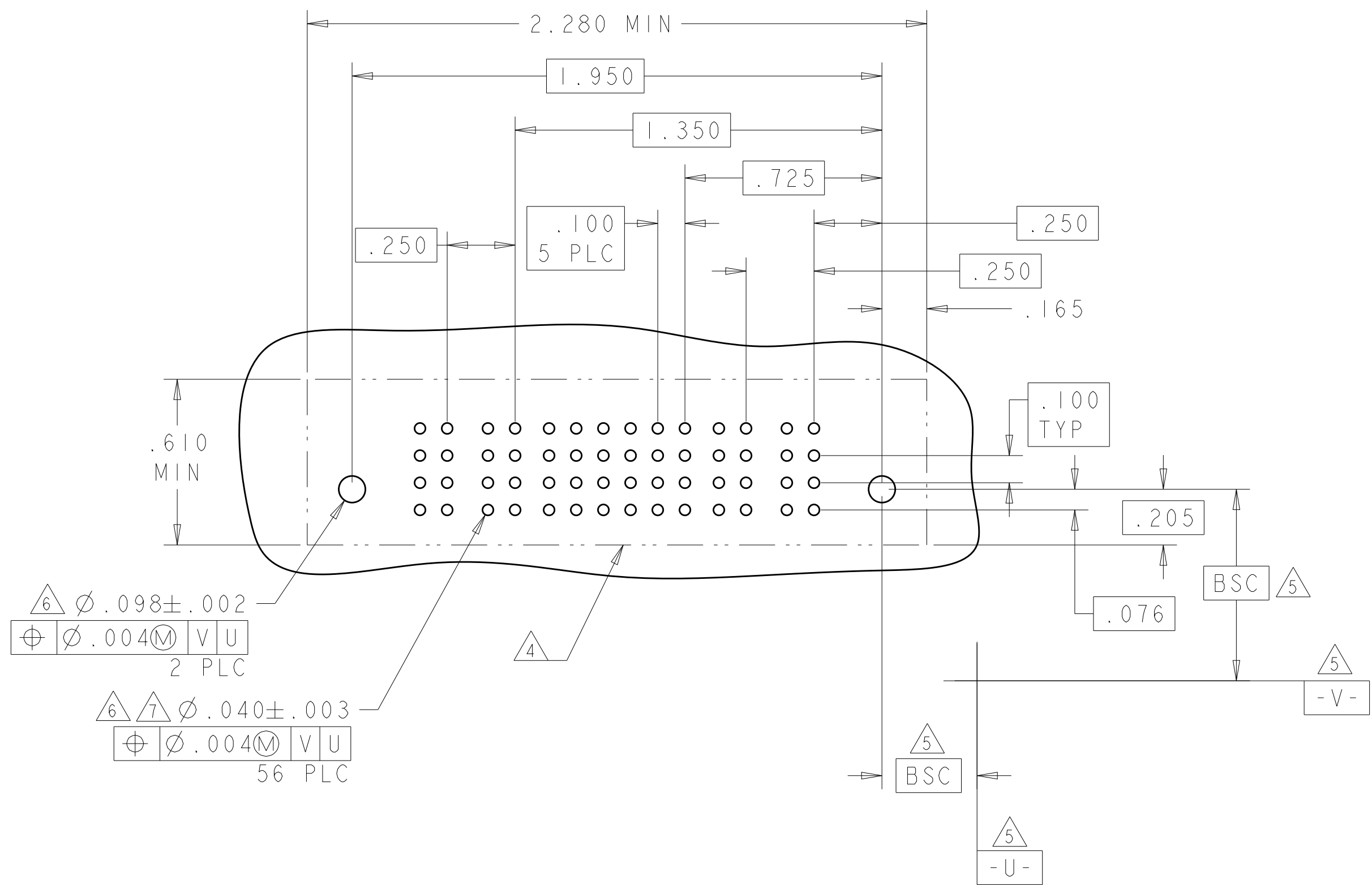
Technical drawing of a rectangular plate with a grid of holes. The drawing includes dimensions for overall size (5.830 MIN), hole spacing (4.150, 3.100, 2.650, 2.050, 1.050), and hole diameter (Ø.040±.003). It also shows various tolerances (e.g., .200 4 PLC, .100 5 PLC) and a BSC (Basic) feature.

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWA R. GRZYBOWSKI		02MAT05		 TE Connectivity	
		CHP M. PERCHERKE		02MAT05			
DIMENSIONS: INCHES		TOLERANCES, UNLESS OTHERWISE SPECIFIED:		NAME		VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES, MULTI-BEAM XL -	
		0 PLOC ±.1 1 PLOC ±.1 2 PLOC ±.01 3 PLOC ±.005 4 PLOC ±.0020 ANGLES ±.2°		FINISH F			
		MATERIAL		SIZE CASE CODE DRAWING NO		RESTRICTED TO	
				A1 00779C-6450550		-	
				CUSTOMER DRAWING		SCALE 4:1 SHEET 9 OF 23 REV U	



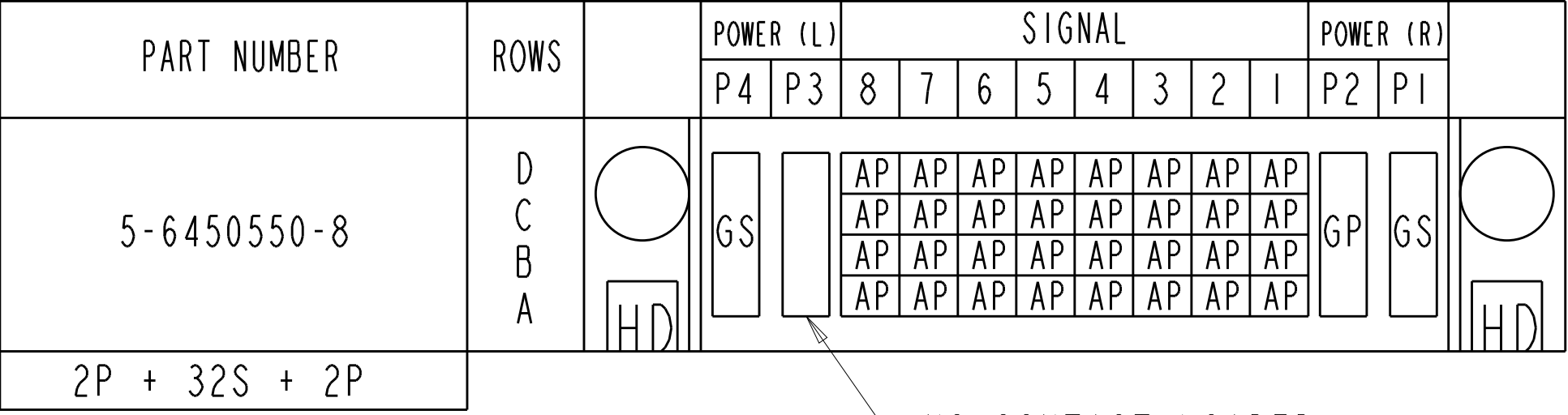
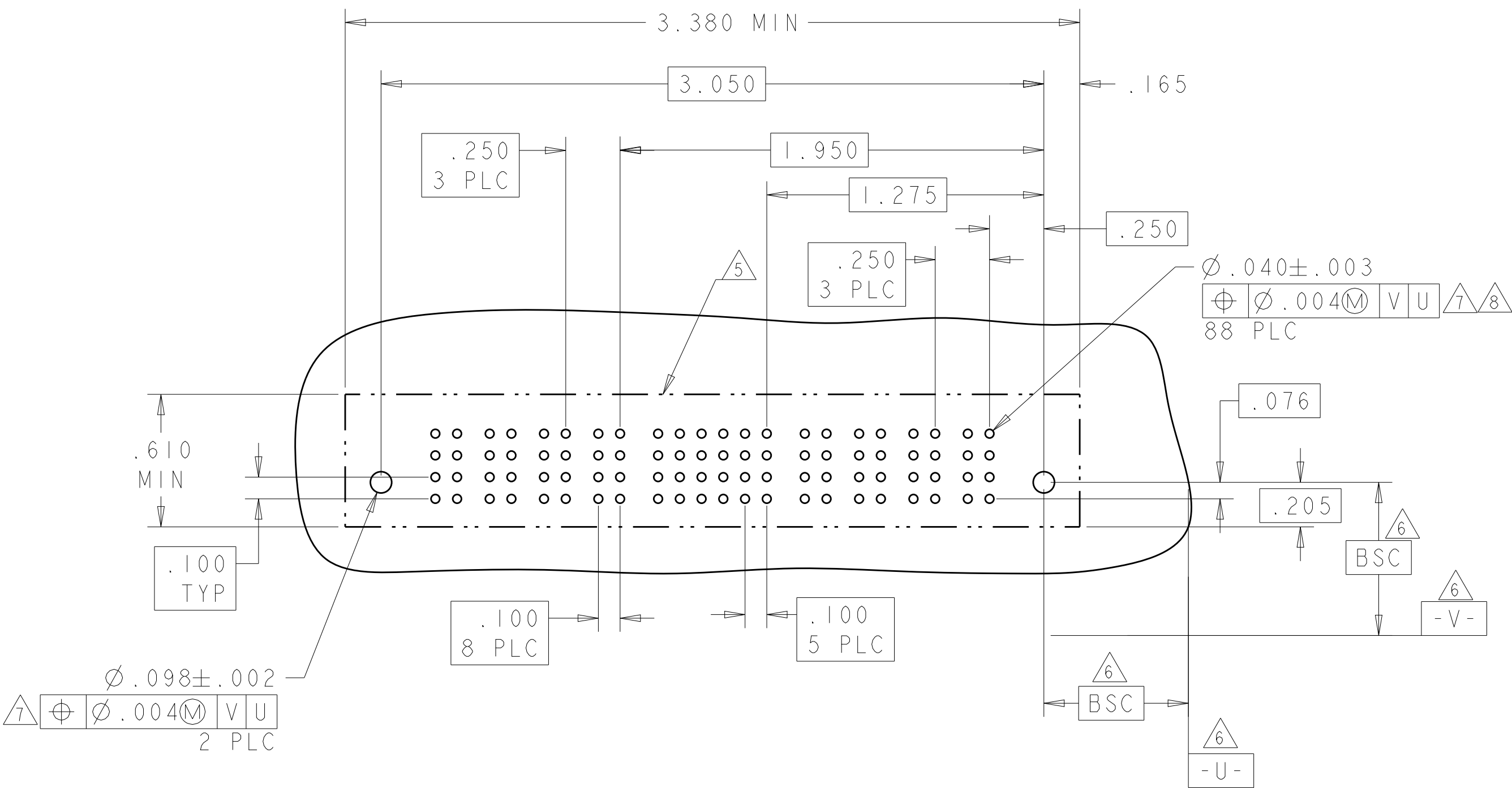
PART NUMBER	ROWS		POWER				SIGNAL				POWER		
			P6	P5	P4	P3	4	3	2	1	P2	P1	
5-6450550-4	D C B A	 											 
2P + 16S + 4P													

4805 (3/11)

[illegible]4805 (3/11)

PART NUMBER	ROWS		POWER (L)				SIGNAL						POWER (R)				
			P8	P7	P6	P5	6	5	4	3	2	1	P4	P3	P2	P1	
5-6450550-7	D						AP	AP	AP	AP	AP	AP					
	AP						AP	AP	AP	AP	AP						
	AP						AP	AP	AP	AP	AP						
	AP						AP	AP	AP	AP	AP						
4P + 24S + 4P																	

KI

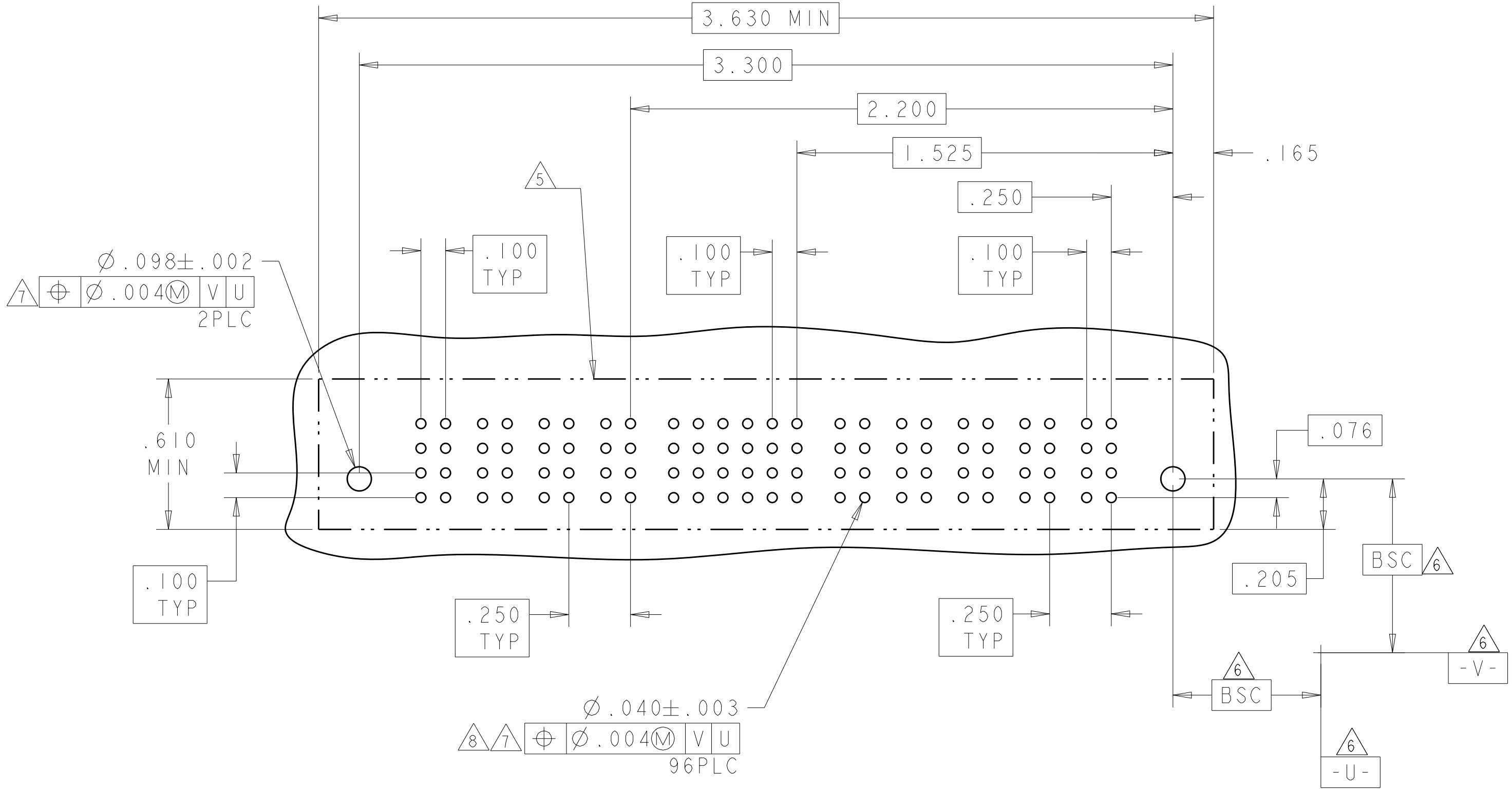
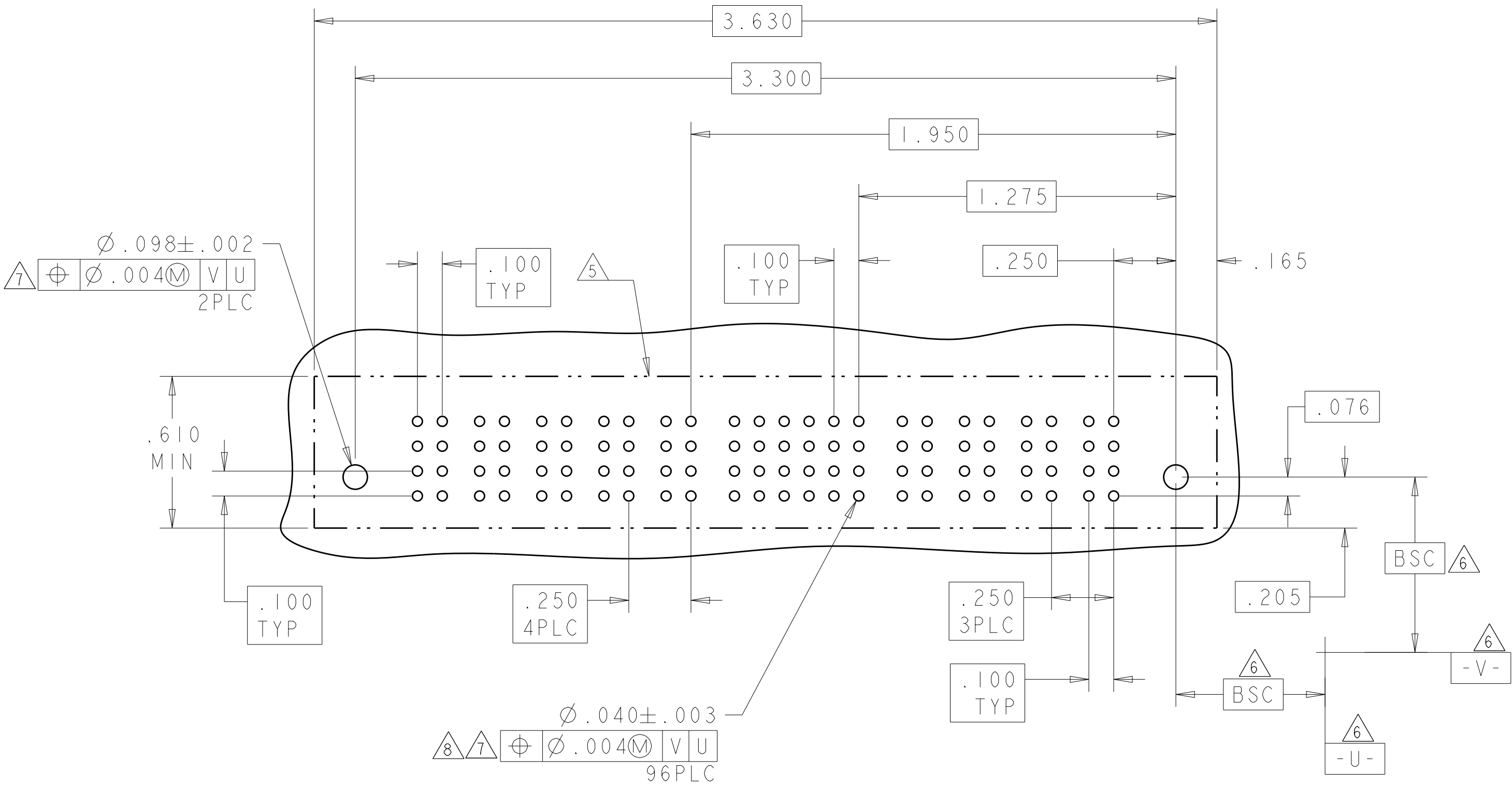


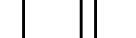
THIS DRAWING IS A CONTROLLED DOCUMENT.		DWA R. GRZYBOWSKI		02MAT05		 TE Connectivity	
		CHP M. PERCHERKE		02MAT05			
DIMENSIONS: INCHES		TOLERANCES, UNLESS OTHERWISE SPECIFIED:		NAME		VERTICAL RECEPTACLE ASSEMBLY WITH GUIDES, MULTI-BEAM XL	
		0 PLOC ±.1 1 PLOC ±.1 2 PLOC ±.01 3 PLOC ±.005 4 PLOC ±.0020 ANGLES ±.2°		REV'D M. PERCHERKE PRODUCT SPEC 108-1973 APPLICATION SPEC 114-13038			
		MATERIAL		SIZE		CASE CODE	
FINISH				DRAWING NO		RESTRICTED TO	
				A1		100779C-6450550	
				WEIGHT		-	
				CUSTOMER DRAWING			
				SCALE		4:1	
				SHEET		13 of 23	
				REV		U	

LOC	DIST	REVISIONS				
P	LTR	DESCRIPTION		DATE	DWN	APVD
-	-	SEE SHEET 1		-	-	-

PART NUMBER	ROWS		POWER					SIGNAL					POWER					
			P9	P8	P7	P6	P5	6	5	4	3	2	1	P4	P3	P2		P1
5-6450550-9	D C B A							AP	AP	AP	AP	AP	AP					
								AP	AP	AP	AP	AP	AP					
								AP	AP	AP	AP	AP	AP					
4P + 24S + 5P																		

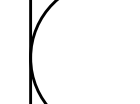
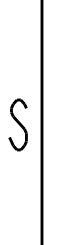
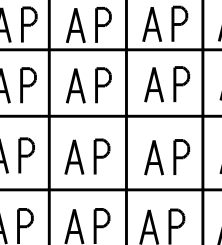
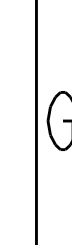
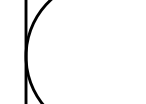
PART NUMBER	ROWS	POWER						SIGNAL					POWER					
		P9	P8	P7	P6	6	5	4	3	2	1	P5	P4	P3	P2	P1		
6-6450550-0	D C B A							AP	AP	AP	AP	AP	AP					
								AP	AP	AP	AP	AP	AP					
								AP	AP	AP	AP	AP	AP					
5P + 24S + 4P																		

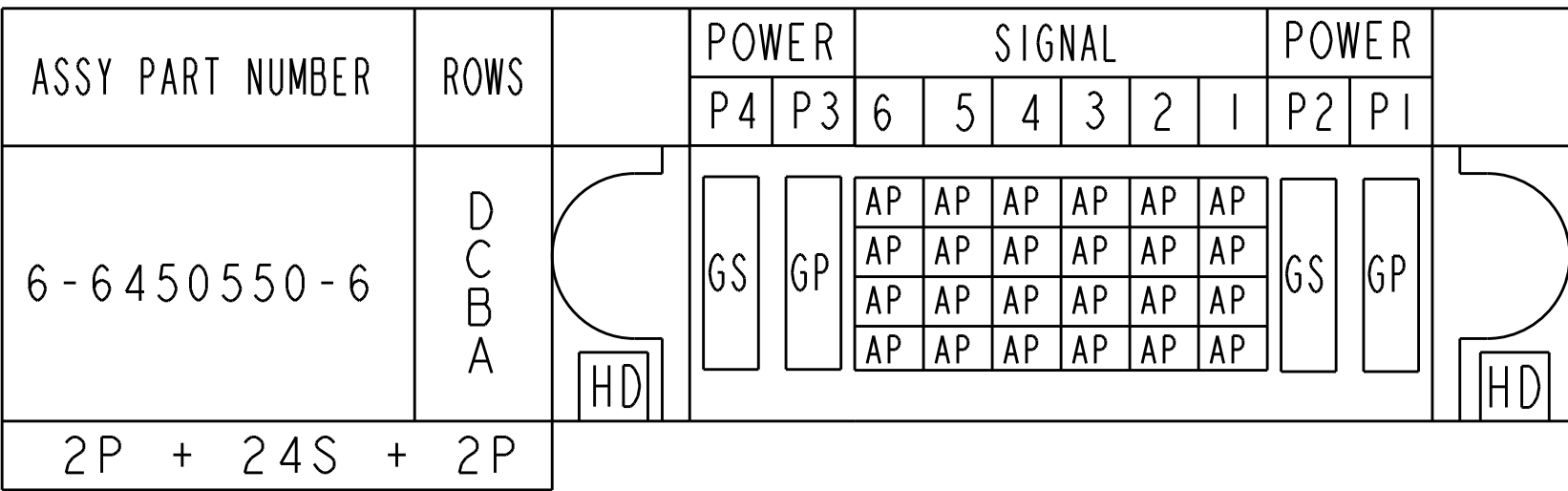


PART NUMBER	ROWS		POWER										SIGNAL						POWER											
			P18	P17	P16	P15	P14	P13	P12	P11	P10	1	2	3	4	5	6	P9	P8	P7	P6	P5	P4	P3	P2	P1				
6-6450550-5	D C B A		GP	GS	GS	GS	GS	GS	GS	GS	GS	GS	AP	AP	AP	AP	AP	AP	GS	GS	GS	GS	GS	GS	GS	GS	GP			
													AP	AP	AP	AP	AP	AP												
													AP	AP	AP	AP	AP	AP												
													AP	AP	AP	AP	AP	AP												
9P + 24S + 9P																														

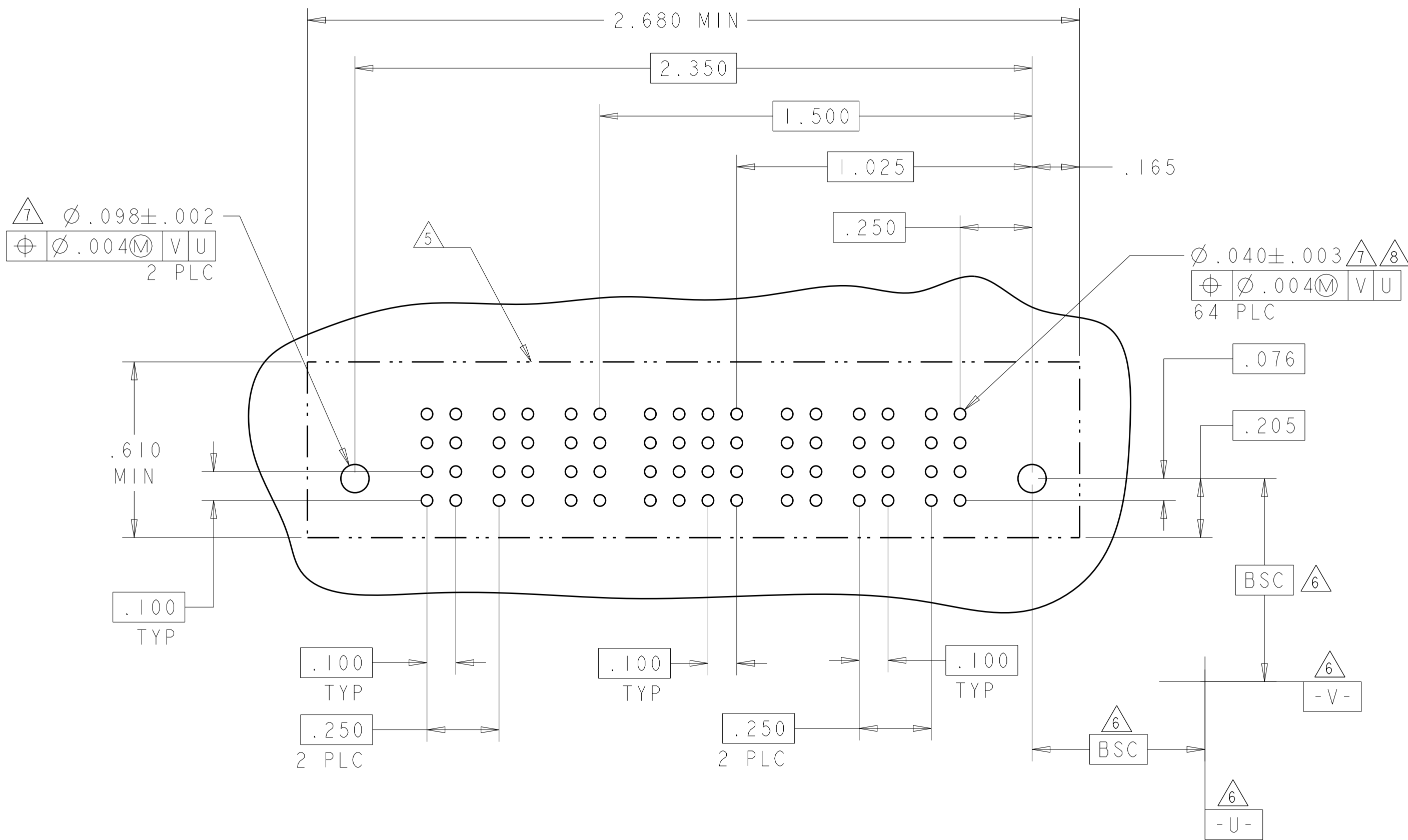


[illegible]4805 (3/11)

ASSY PART NUMBER	ROWS		POWER				SIGNAL				POWER		
			P6	P5	P4	P3	4	3	2	1	P2	P1	
6-6450550-4	D C B A	 								 			
2P + 16S + 4P													

4805 (3/11)

PART NUMBER	ROWS		POWER			SIGNAL				POWER			
			P6	P5	P4	4	3	2	1	P3	P2	P1	
6-6450550-9	D		GP	GP	GP	AP	AP	AP	AP	GS	GS	GS	
	C					AP	AP	AP	AP				
	B					AP	AP	AP	AP				
	A					HD	AP	AP	AP				
3P + 16S + 3P													

4805 (3/11)

Technical drawing of a mechanical part, showing a top view with dimensions and tolerances.

Overall dimensions and tolerances:

- Overall width: 3.180 MIN
- Overall height: .610 MIN

Internal dimensions and tolerances:

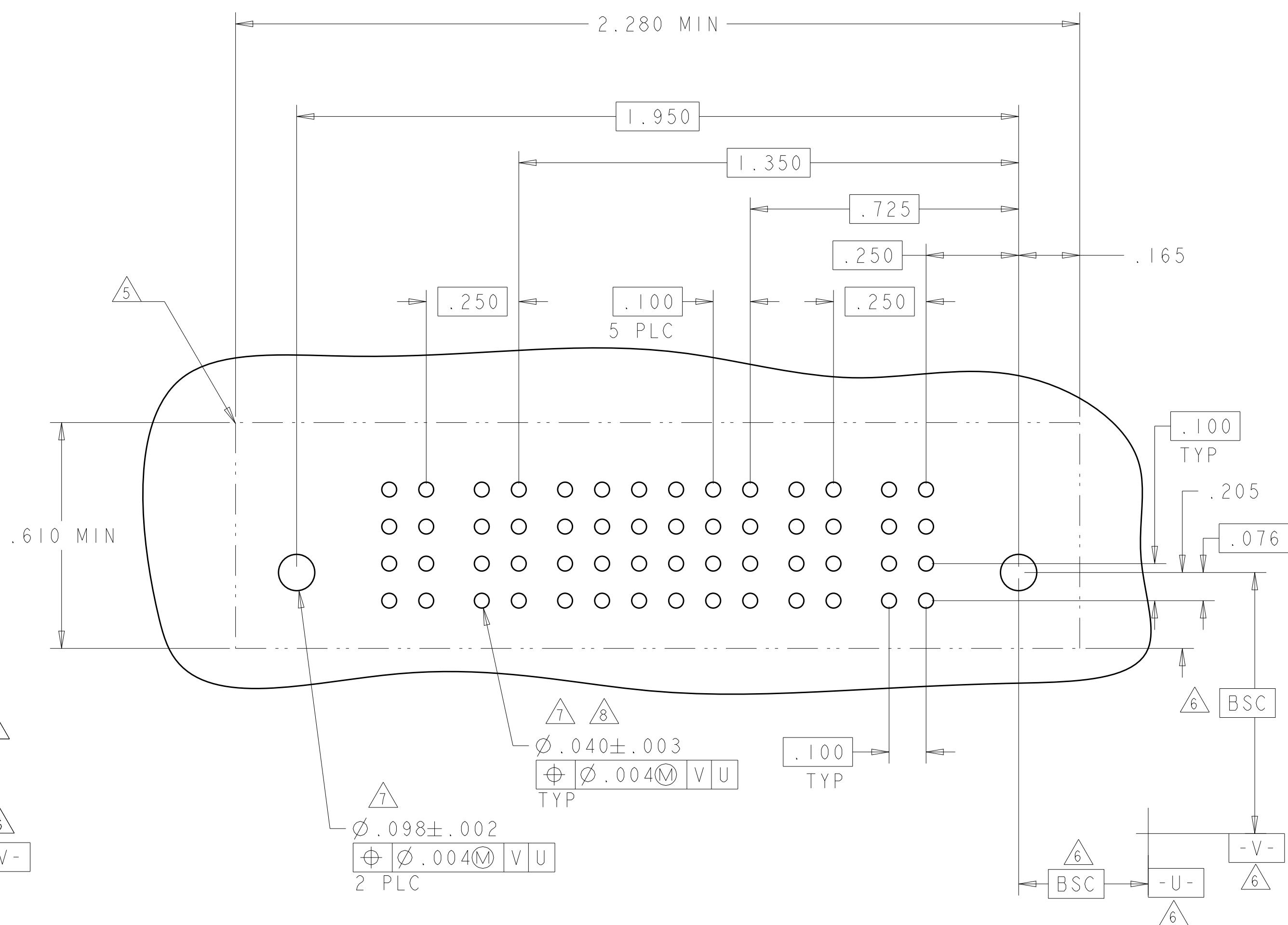
- Top edge: 1.875, 1.225, .165
- Left edge: .100 3PLC, .100 5PLC, .100 4PLC, .250
- Right edge: .100 TYP, .077, .250 3PLC
- Bottom edge: .300 2PLC, .250 3PLC, 2.850

Feature callouts and tolerances:

- Feature 5: .205 TYP
- Feature 6: .098 ± .002, .004 M, V, U, 2PLC
- Feature 7: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 8: .077
- Feature 9: .100 TYP
- Feature 10: .077
- Feature 11: .250 3PLC
- Feature 12: .300 2PLC
- Feature 13: .100 3PLC
- Feature 14: .100 5PLC
- Feature 15: .100 4PLC
- Feature 16: .250
- Feature 17: .165
- Feature 18: .100 TYP
- Feature 19: .077
- Feature 20: .250 3PLC
- Feature 21: .300 2PLC
- Feature 22: .205 TYP
- Feature 23: .098 ± .002, .004 M, V, U, 2PLC
- Feature 24: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 25: .100 TYP
- Feature 26: .077
- Feature 27: .250 3PLC
- Feature 28: .300 2PLC
- Feature 29: .100 3PLC
- Feature 30: .100 5PLC
- Feature 31: .100 4PLC
- Feature 32: .250
- Feature 33: .165
- Feature 34: .100 TYP
- Feature 35: .077
- Feature 36: .250 3PLC
- Feature 37: .300 2PLC
- Feature 38: .205 TYP
- Feature 39: .098 ± .002, .004 M, V, U, 2PLC
- Feature 40: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 41: .100 TYP
- Feature 42: .077
- Feature 43: .250 3PLC
- Feature 44: .300 2PLC
- Feature 45: .100 3PLC
- Feature 46: .100 5PLC
- Feature 47: .100 4PLC
- Feature 48: .250
- Feature 49: .165
- Feature 50: .100 TYP
- Feature 51: .077
- Feature 52: .250 3PLC
- Feature 53: .300 2PLC
- Feature 54: .205 TYP
- Feature 55: .098 ± .002, .004 M, V, U, 2PLC
- Feature 56: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 57: .100 TYP
- Feature 58: .077
- Feature 59: .250 3PLC
- Feature 60: .300 2PLC
- Feature 61: .100 3PLC
- Feature 62: .100 5PLC
- Feature 63: .100 4PLC
- Feature 64: .250
- Feature 65: .165
- Feature 66: .100 TYP
- Feature 67: .077
- Feature 68: .250 3PLC
- Feature 69: .300 2PLC
- Feature 70: .205 TYP
- Feature 71: .098 ± .002, .004 M, V, U, 2PLC
- Feature 72: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 73: .100 TYP
- Feature 74: .077
- Feature 75: .250 3PLC
- Feature 76: .300 2PLC
- Feature 77: .100 3PLC
- Feature 78: .100 5PLC
- Feature 79: .100 4PLC
- Feature 80: .250
- Feature 81: .165
- Feature 82: .100 TYP
- Feature 83: .077
- Feature 84: .250 3PLC
- Feature 85: .300 2PLC
- Feature 86: .205 TYP
- Feature 87: .098 ± .002, .004 M, V, U, 2PLC
- Feature 88: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 89: .100 TYP
- Feature 90: .077
- Feature 91: .250 3PLC
- Feature 92: .300 2PLC
- Feature 93: .100 3PLC
- Feature 94: .100 5PLC
- Feature 95: .100 4PLC
- Feature 96: .250
- Feature 97: .165
- Feature 98: .100 TYP
- Feature 99: .077
- Feature 100: .250 3PLC
- Feature 101: .300 2PLC
- Feature 102: .205 TYP
- Feature 103: .098 ± .002, .004 M, V, U, 2PLC
- Feature 104: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 105: .100 TYP
- Feature 106: .077
- Feature 107: .250 3PLC
- Feature 108: .300 2PLC
- Feature 109: .100 3PLC
- Feature 110: .100 5PLC
- Feature 111: .100 4PLC
- Feature 112: .250
- Feature 113: .165
- Feature 114: .100 TYP
- Feature 115: .077
- Feature 116: .250 3PLC
- Feature 117: .300 2PLC
- Feature 118: .205 TYP
- Feature 119: .098 ± .002, .004 M, V, U, 2PLC
- Feature 120: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 121: .100 TYP
- Feature 122: .077
- Feature 123: .250 3PLC
- Feature 124: .300 2PLC
- Feature 125: .100 3PLC
- Feature 126: .100 5PLC
- Feature 127: .100 4PLC
- Feature 128: .250
- Feature 129: .165
- Feature 130: .100 TYP
- Feature 131: .077
- Feature 132: .250 3PLC
- Feature 133: .300 2PLC
- Feature 134: .205 TYP
- Feature 135: .098 ± .002, .004 M, V, U, 2PLC
- Feature 136: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 137: .100 TYP
- Feature 138: .077
- Feature 139: .250 3PLC
- Feature 140: .300 2PLC
- Feature 141: .100 3PLC
- Feature 142: .100 5PLC
- Feature 143: .100 4PLC
- Feature 144: .250
- Feature 145: .165
- Feature 146: .100 TYP
- Feature 147: .077
- Feature 148: .250 3PLC
- Feature 149: .300 2PLC
- Feature 150: .205 TYP
- Feature 151: .098 ± .002, .004 M, V, U, 2PLC
- Feature 152: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 153: .100 TYP
- Feature 154: .077
- Feature 155: .250 3PLC
- Feature 156: .300 2PLC
- Feature 157: .100 3PLC
- Feature 158: .100 5PLC
- Feature 159: .100 4PLC
- Feature 160: .250
- Feature 161: .165
- Feature 162: .100 TYP
- Feature 163: .077
- Feature 164: .250 3PLC
- Feature 165: .300 2PLC
- Feature 166: .205 TYP
- Feature 167: .098 ± .002, .004 M, V, U, 2PLC
- Feature 168: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 169: .100 TYP
- Feature 170: .077
- Feature 171: .250 3PLC
- Feature 172: .300 2PLC
- Feature 173: .100 3PLC
- Feature 174: .100 5PLC
- Feature 175: .100 4PLC
- Feature 176: .250
- Feature 177: .165
- Feature 178: .100 TYP
- Feature 179: .077
- Feature 180: .250 3PLC
- Feature 181: .300 2PLC
- Feature 182: .205 TYP
- Feature 183: .098 ± .002, .004 M, V, U, 2PLC
- Feature 184: Ø.040 ± .003, .004 M, V, U, 80PLC
- Feature 185: .100 TYP
- Feature 186: .077
- Feature 187: .250 3PLC
- Feature 188: .300 2PLC
- Feature 189: .100 3PLC
- Feature 190: .100 5PLC
- Feature 191: .100 4PLC
- Feature 192: .250
- Feature 193: .165
- Feature 194: .100 TYP

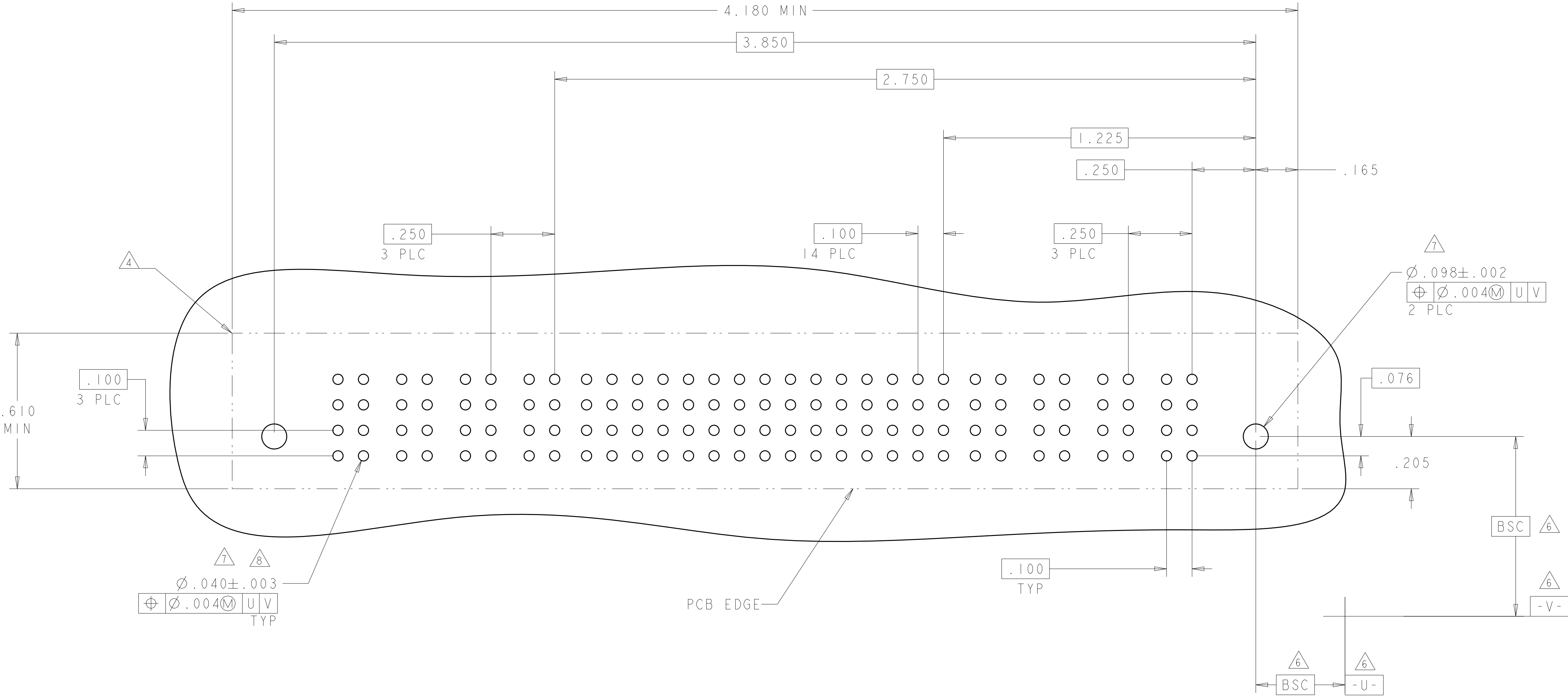
4805 (3/11)

PART NUMBER	ROWS		POWER		SIGNAL						POWER		
			P4	P3	6	5	4	3	2	1	P2	P1	
I-6450550-5	D C B A	 											 
2P + 24S + 2P													



LOC		DIST		REVISIONS				
P	LYR	DESCRIPTION			DATE	DWN	APVD	
-	-	SEE SHEET 1			-	-	-	

PART NUMBER	ROWS		POWER				SIGNAL																POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN
R. GRZYBOWSKI
CHK
M. PERCHERKE
APVD
M. PERCHERKE

02MAY05
02MAY05

DIMENSIONS:
INCHES

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

TOLERANCES UNLESS OTHERWISE SPECIFIED:

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

CUSTOMER DRAWING

SCALE 4:1

SHEET 21 OF 23

REV U3

TE Connectivity

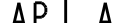
NAME
VERTICAL RECEPTACLE ASSEMBLY
WITH GUIDES, MULTI-BEAM XL

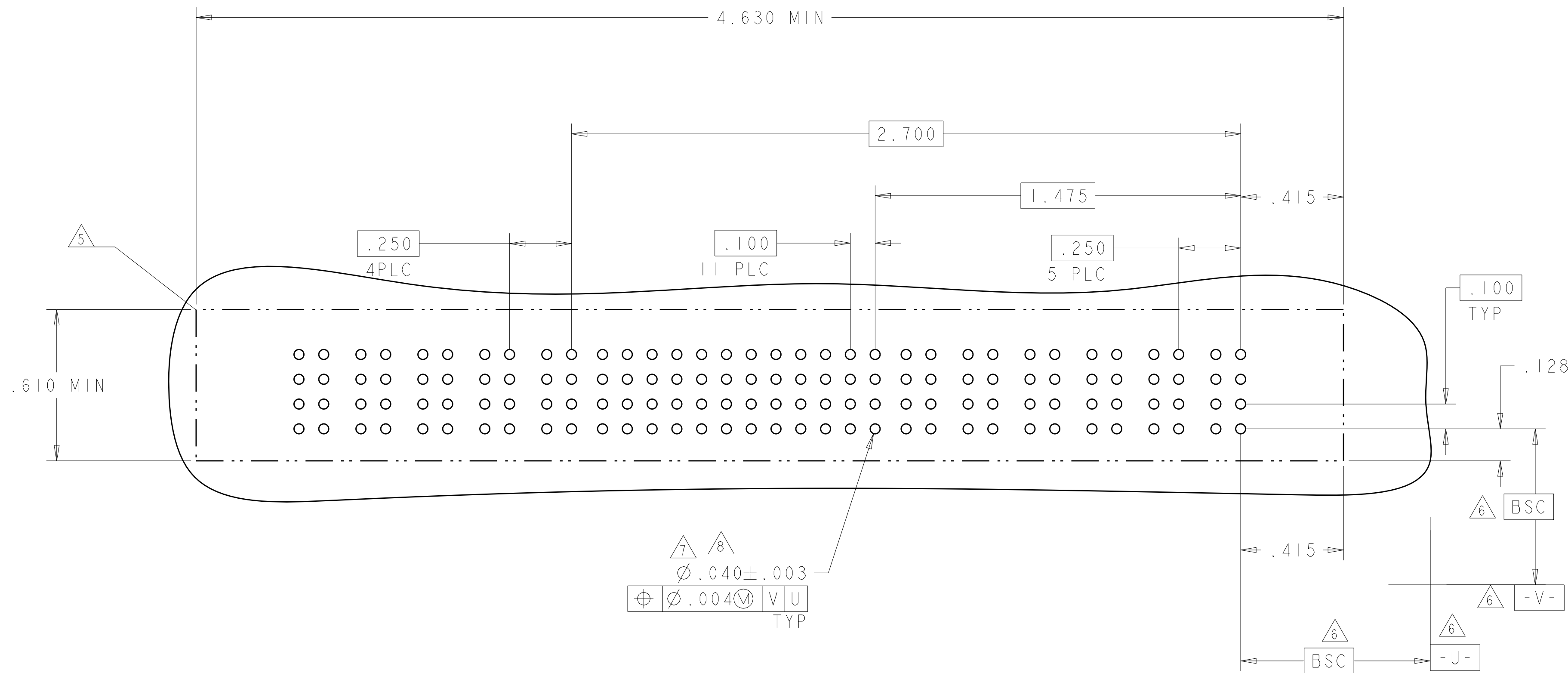
SIZE
A1

CAGE CODE
100779

DRAWING NO
C=6450550

RESTRICTED TO
-

PART NUMBER	ROWS		POWER					SIGNAL											POWER																												
			P11	P10	P9	P8	P7	12	11	10	9	8	7	6	5	4	3	2	1	P6	P5	P4	P3	P2		P1																					
7-6450550-3	D C B A																																														
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																									AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP	AP
6P + 48S + 5P																																															



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN R. GRZYBOWSKI 02MAY05		TE Connectivity	
DIMENSIONS: INCHES		TOLERANCES UNLESS OTHERWISE SPECIFIED:		NAME	
		0 PLC ±.01		CHW M. PERCHERKE 02MAY05	
		1 PLC ±.01		APVD M. PERCHERKE	
		2 PLC ±.01		PRODUCT SPEC	
		3 PLC ±.005		108-1973	
4 PLC ±.0020		114-13038		APPLICATION SPEC	
ANGLES ±.7°		WEIGHT -		SIZE CAGE CODE DRAWING NO RESTRICTED TO	
MATERIAL		FINISH		A 100779 © 6450550	
				SCALE 4:1 SHEET 23 OF 23 REV U3	
		CUSTOMER DRAWING			

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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