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6116317-5 Product Details

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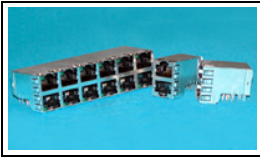
6116317-5

TE Internal Number: 6116317-5

✔ Active

📄 View 3D PDF

PCB Mounted Jacks - Single Port, Multi-port and Stacked

🌿 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:
- Connector
- Preloaded
- Stacked Port Configuration
- 2 x 8 Jack Configuration
- Jack Type = RJ45

View all Features

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Documentation & Additional Information

Product Drawings:
- STACKED MODULAR JACK ASSEMBLY, 2X8 WITH LEDS, 8 POSI... (PDF, English)

Catalog Pages/Data Sheets:
- None Available

Product Specifications:
- High Performance Modular Plugs & Jacks, PCB Mounted (PDF, English)

Application Specifications:
- Modular Jacks (PDF, English)

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version B)
- 3D Model (IGES, Version B)
- 3D Model (STEP, Version B)

Additional Information:
- Product Line Information

Related Products:
- Tooling

List all Documents

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Product Type = Connector
- Jack Type = RJ45
- PCB Mounting Orientation = Side Entry (Right Angle)
- PCB Mount Style = Through Hole
- Performance Category = Cat 5e
- LED = With
- Grounding Options = Panel Ground and PCB Ground
- Panel Stops = Without
- Keyed = No
- Profile = Very Low; Offset - Over Hangs PCB
- Color = Black

Mechanical Attachment:
- Panel Mount Retention = Without

Termination Features:
- Termination Method to PC Board = Through Hole - Press Fit
- Grounding Clips = Without

Dimensions:
- PCB Tail Length (mm [in]) = 4.35 [0.171]
- PCB Thickness, Recommended (mm [in]) = 1.57 [0.062]

Body Features:
- Inverted Jack Face = No
- Shield Plating = Tin over Copper
- Shield Material = .010 [0.25] Copper Alloy
- Grounding Tab Plating = Tin over Copper

Contact Features:
- Solder Tail Contact Plating = Tin over Nickel
- Contact Plating, Mating Area, Material = Gold (50)
- Contact Base Material = Phosphor Bronze
- PCB ACTION PIN Grounds = With

Housing Features:
- Housing Material = PBT - GF
- Housing Color = Black
- UL Flammability Rating = UL 94V-0

Configuration Features:
- Preloaded = Yes
- Port Configuration = Stacked
- Jack Configuration = 2 x 8
- Number of Positions = 8
- Shielded = Yes
- Number of Contacts Loaded = 8
- Number of PCB Ground Tabs = 11
- Number of Terminals Per Port = 8

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant

Identification Marking:
- LED Color; Top Left = Green/Yellow
- LED Color; Top Right = Green/Yellow
- LED Color; Bottom Left = Green/Yellow
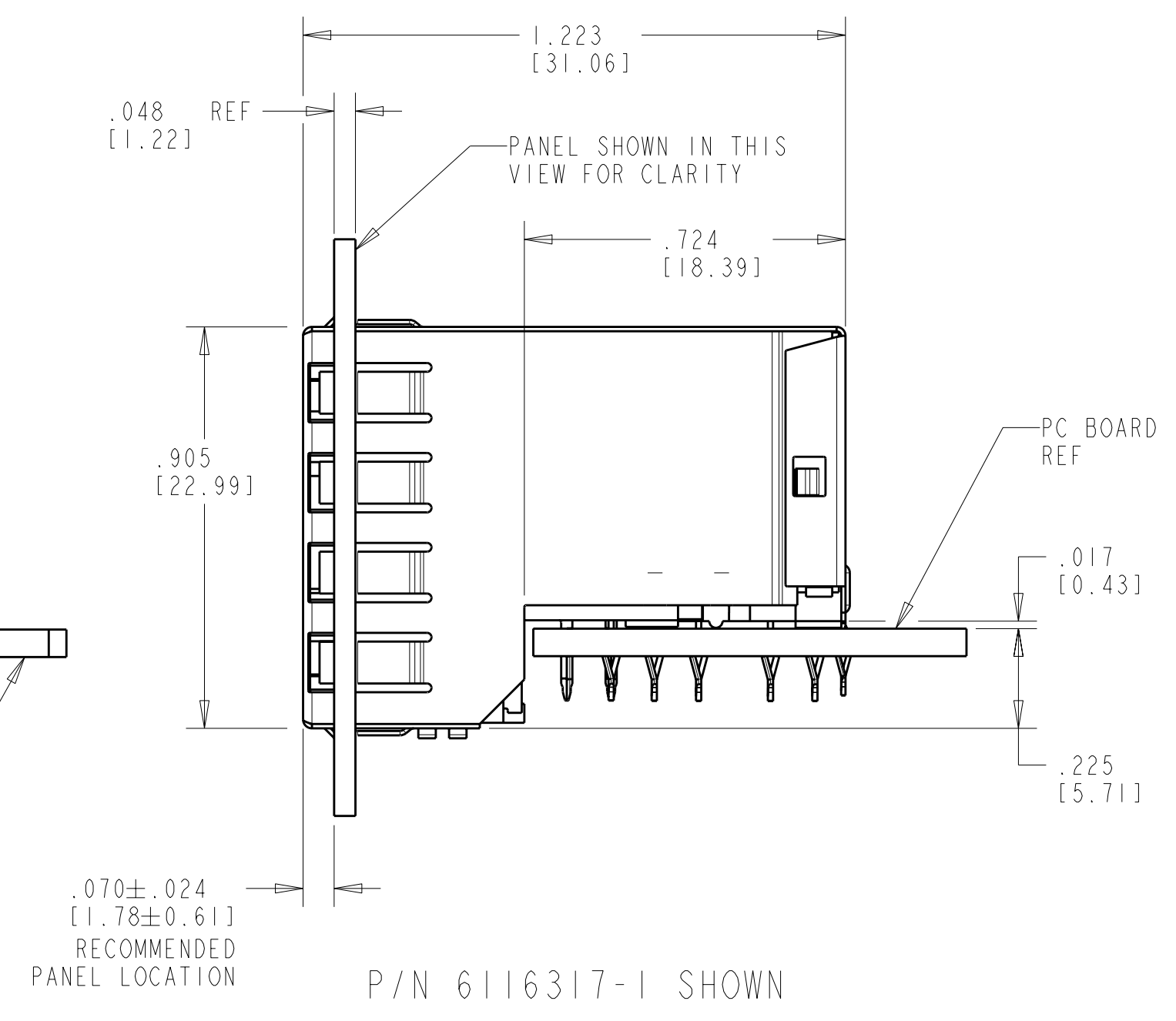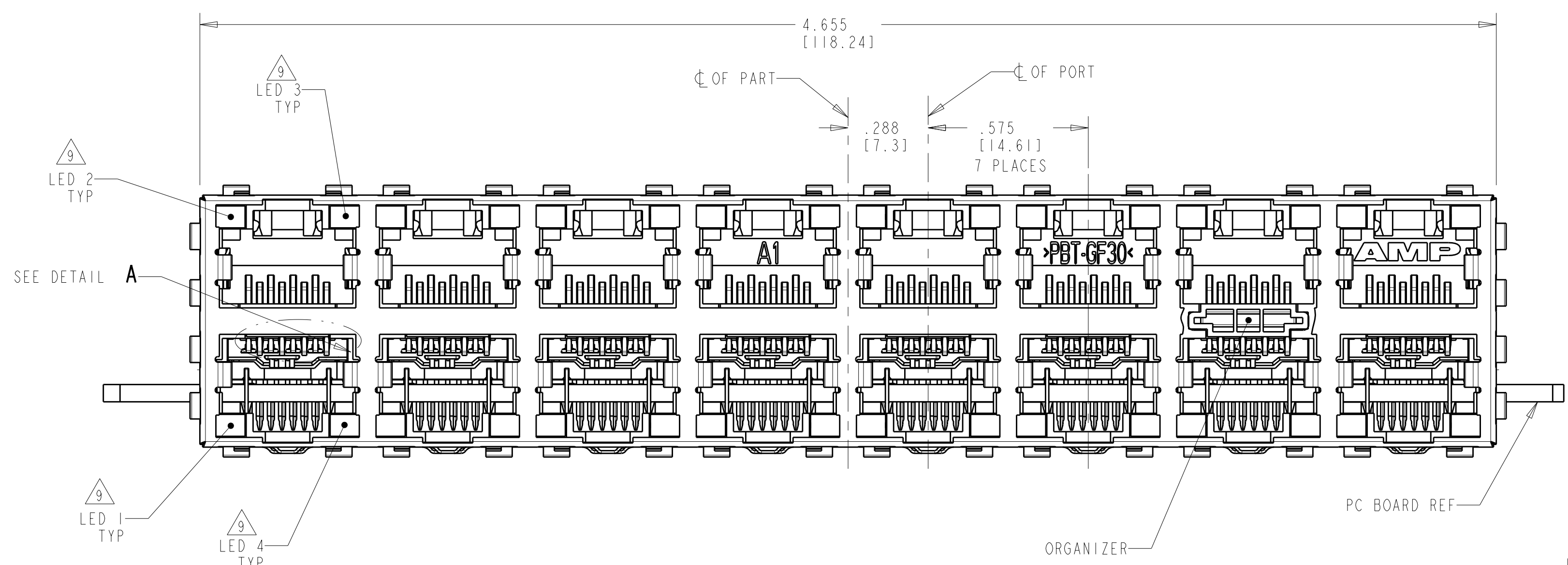- LED Color; Bottom Right = Green/Yellow
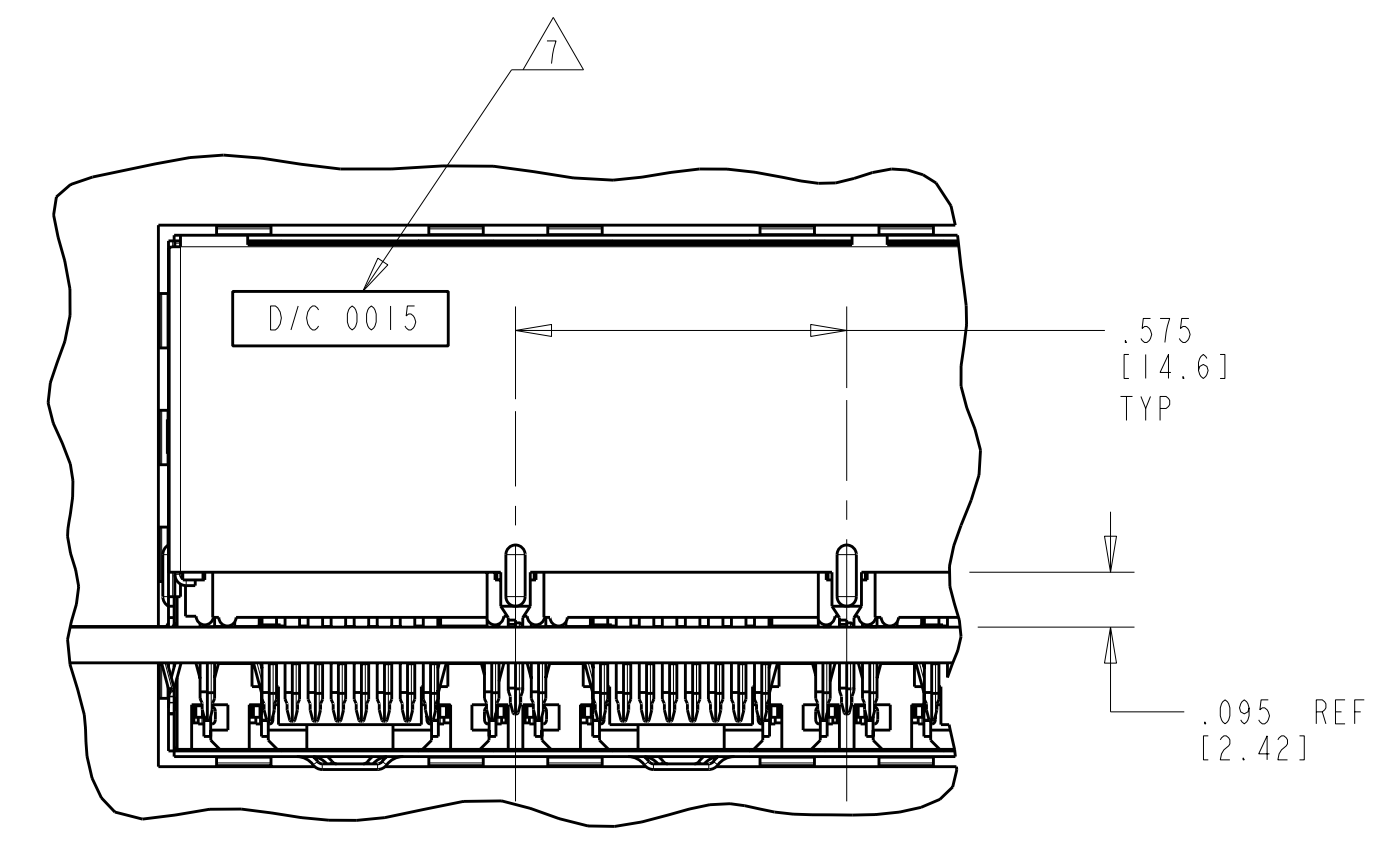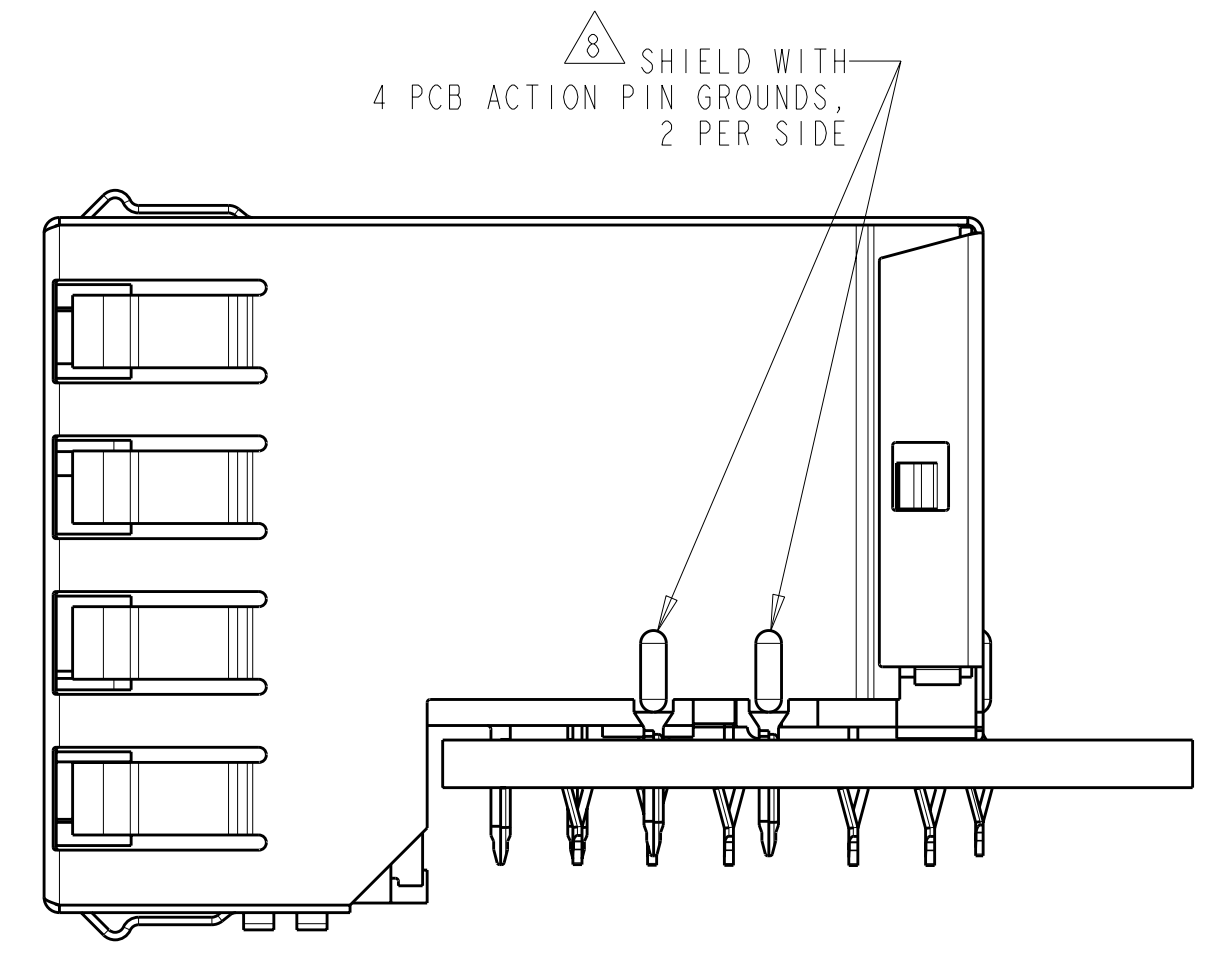
Product Availability:
- Region = Asia, North America

Other:
- Brand = AMP
- Comment = With 4 PCB ACTION PIN Grounds.

8	7	6	5	4	3	2	1

REVISIONS

LOC	DIST						
AA	22	P	LTR	DESCRIPTION	DATE	DWN	APVD
			C2	REVISED PER ECO-11-005033	04MAY11	RK	HMR

4.655 [118.24]

℄ OF PART
℄ OF PORT

.288 [7.3]
.575 [14.61]
7 PLACES

⟨9⟩ LED 3 TYP
⟨9⟩ LED 2 TYP
SEE DETAIL **A**
⟨9⟩ LED 1 TYP
⟨9⟩ LED 4 TYP

A1
‹PBT-GF30›
AMP

ORGANIZER
PC BOARD REF

1.223 [31.06]
.048 REF [1.22]
PANEL SHOWN IN THIS VIEW FOR CLARITY
.724 [18.39]

.905 [22.99]
PC BOARD REF
.017 [0.43]
.225 [5.71]

.070±.024 [1.78±0.61]
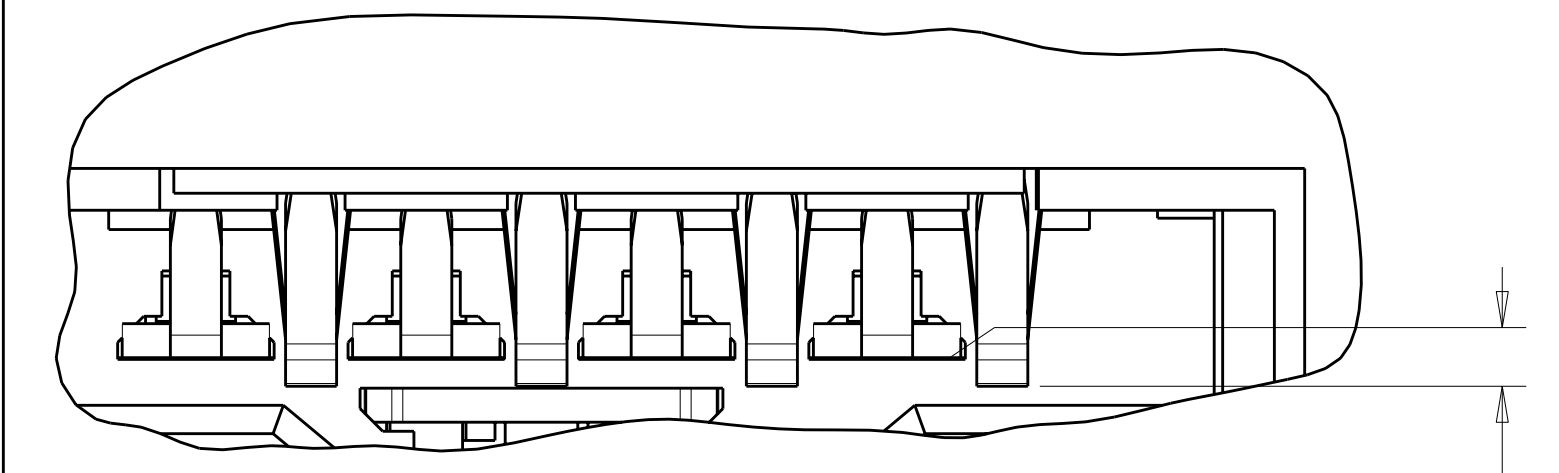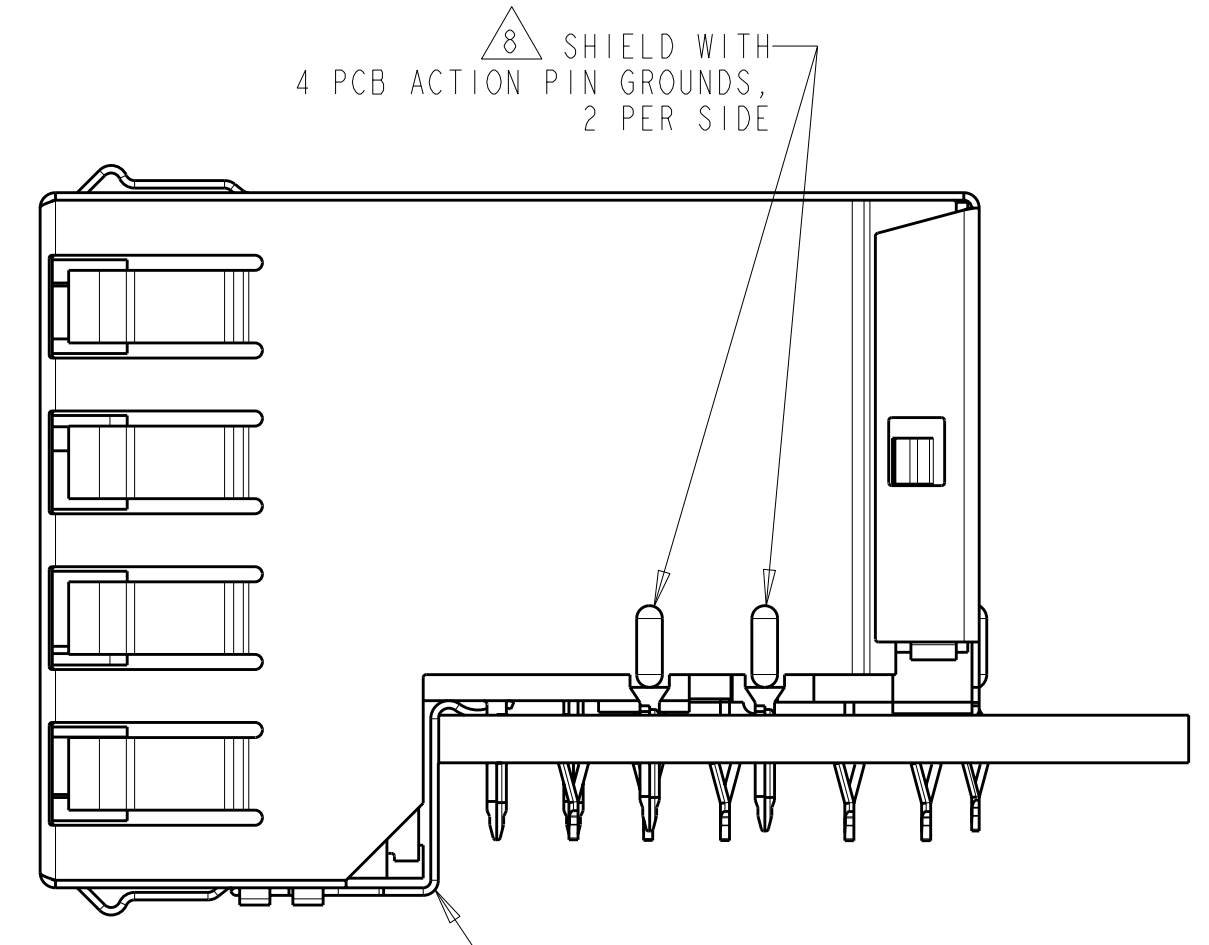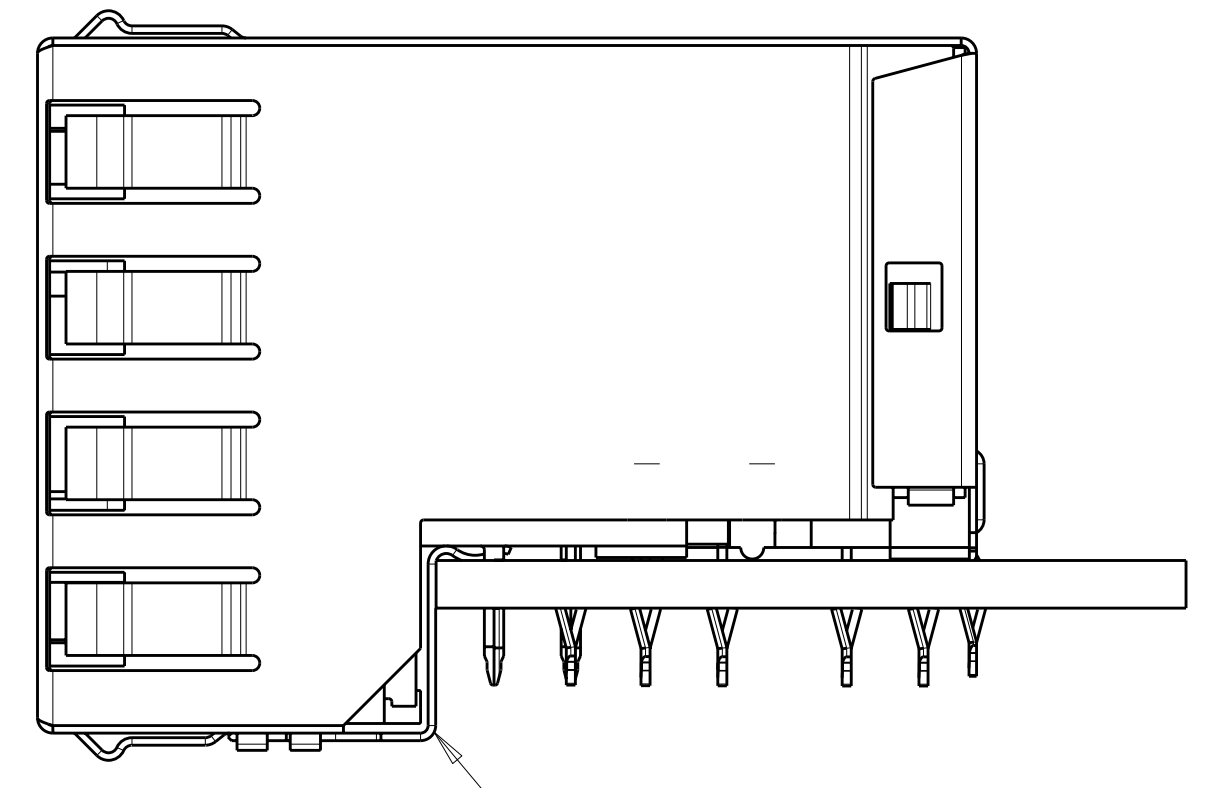RECOMMENDED PANEL LOCATION

P/N 6116317-1 SHOWN

HOUSING NOTES

⟨1⟩ HOUSING: PBT POLYESTER, BLACK, UL 94V-0.
TERMINALS: 0.30 THICK PHOS BRONZE PLATED WITH 1.27µm MINIMUM THICK HARD GOLD IN LOCALIZED AREA AND 2µm MINIMUM THICK MATTE TIN IN ACTION PIN COMPLIANT PIN TERMINAL AREA OVER 1.27µm MINIMUM THICK NICKEL UNDERPLATE.
SHIELD: 0.25 THICK COPPER ALLOY PLATED WITH 2.03µm MINIMUM BRIGHT TIN OVER 1.27µm MINIMUM NICKEL.
GROUND CLIPS: 0.25 THICK COPPER ALLOY PLATED WITH 2.03µm MINIMUM MATTE TIN OVER 1.27µm MINIMUM NICKEL.
LIGHT EMITTING DIODE (LED): DIFFUSED EPOXY LENS, 12.95 CARBON STEEL WIREFRAME LEADS PLATED WITH 8.89µm TIN/COPPER OVER 2.03µm SILVER OVER 1.02µm COPPER OVER 3.56µm NICKEL OVER 1.02µm COPPER UNDERPLATE.
LED ACTION PIN COMPLIANT PIN CONTACTS: 0.30 THICK BRASS PLATED WITH 2µm MINIMUM MATTE TIN.

2. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS; PART 68 SUBPART F.

3. ALL DIMENSIONS ARE NOMINAL UNLESS OTHERWISE SPECIFIED.

4. TWO LEDS PER PORT, SIZE .079 X .118, SEE TABLE.

⟨5⟩ DRILLED HOLE DIA = .040±.001.
COPPER THICKNESS = .001-.003.
TIN THICKNESS = .0003 MIN.

⟨6⟩ DATUMS AND BASIC DIMENSIONS ESTABLISHED BY CUSTOMER.

⟨7⟩ DATE CODE LOCATED ON REAR OF PART APPROXIMATELY AS SHOWN.

⟨8⟩ THESE FOUR SIDE PCB ACTION PIN GROUNDS AND CORRESPONDING PCB HOLES ARE REQUIRED ONLY ON 6116317-2, 6116317-3, 6116317-6, 6116317-5, 6116317-7, -9 AND 1--0.

⟨9⟩ SUGGESTED OPERATING CURRENT FOR LEDS IS 20 mA.

⟨8⟩ SHIELD WITH 4 PCB ACTION PIN GROUNDS, 2 PER SIDE

P/N 6116317-1, -8
SCALE 4:1

P/N 6116317-2, -5, -6, -7,
SCALE 4:1

D/C 0015
.575 [14.6] TYP
.095 REF [2.42]

PARTIAL BACK VIEW

P/N 6116317-4
SCALE 4:1

GROUND CLIP QUANTITY 8

⟨8⟩ SHIELD WITH 4 PCB ACTION PIN GROUNDS, 2 PER SIDE

GROUND CLIP QUANTITY 8

P/N 6116317-3, -9, -1/0
SCALE 4:1

CONTACTS ARE NOT INTENDED TO BE ALIGNED WITH EACH OTHER

DETAIL **A**
SCALE 15:1
TYPICAL

LED #4 (LOWER-RIGHT)	LED #3 (UPPER-RIGHT)	LED #2 (UPPER-LEFT)	LED #1 (LOWER-LEFT)	PART NO.
RED/GREEN	RED/GREEN	RED/GREEN	RED/GREEN	1-6116317-0
GREEN/YELLOW	GREEN/YELLOW	RED/GREEN	RED/GREEN	6116317-9
GREEN/YELLOW	GREEN/YELLOW	RED/GREEN	RED/GREEN	6116317-8
GREEN	GREEN	YELLOW	YELLOW	6116317-7
YELLOW	YELLOW	GREEN	GREEN	6116317-6
GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	GREEN/YELLOW	6116317-5
GREEN	GREEN	GREEN	GREEN	6116317-4
GREEN	GREEN	GREEN	GREEN	6116317-3
GREEN	GREEN	GREEN	GREEN	6116317-2
GREEN	GREEN	GREEN	GREEN	6116317-1

GROUND CLIPS	SIDE PCB ACTION PIN GNDS	PART NUMBER
8	4 ⟨8⟩	1-6116317-0
8	4 ⟨8⟩	6116317-9
NONE	NONE	6116317-8
NONE	4 ⟨8⟩	6116317-7
NONE	4 ⟨8⟩	6116317-6
NONE	4 ⟨8⟩	6116317-5
8	NONE	6116317-4
8	4 ⟨8⟩	6116317-3
NONE	4 ⟨8⟩	6116317-2
NONE	NONE	6116317-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN	L. VARELA - DOCKS	23JUN2005
CHK	J. WESTMAN	23JUN2005
APVD	S. FLICKINGER	23JUN2005

TE Connectivity

DIMENSIONS: INCHES[mm]
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±
1 PLC ±
2 PLC ±
3 PLC ±.005 [0.13]
4 PLC ±.005 [0.13]
ANGLES ±

NAME: STACKED MODULAR JACK ASSEMBLY, 2X8 WITH LEDS, 8 POSITION, SHIELDED PANEL GROUND, OFFSET, CAT 5

PRODUCT SPEC: 108-1854
APPLICATION SPEC: 114-2160
WEIGHT: 1 =77.2 grams

SIZE: A1 CAGE CODE: 00779 DRAWING NO: C=6116317 RESTRICTED TO: -

MATERIAL
FINISH
SCALE: 3:1   SHEET 1 OF 3   REV: C2

CUSTOMER DRAWING

LOC	DIST	REVISIONS				
AA	22	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-	-	SEE SHEET 1	-	-	-

RECOMMENDED PANEL CUT-OUT

4.690 [119.13]
.940 [23.88]
PC BOARD REF
.243 REF [6.18]
TOP OF PC BOARD
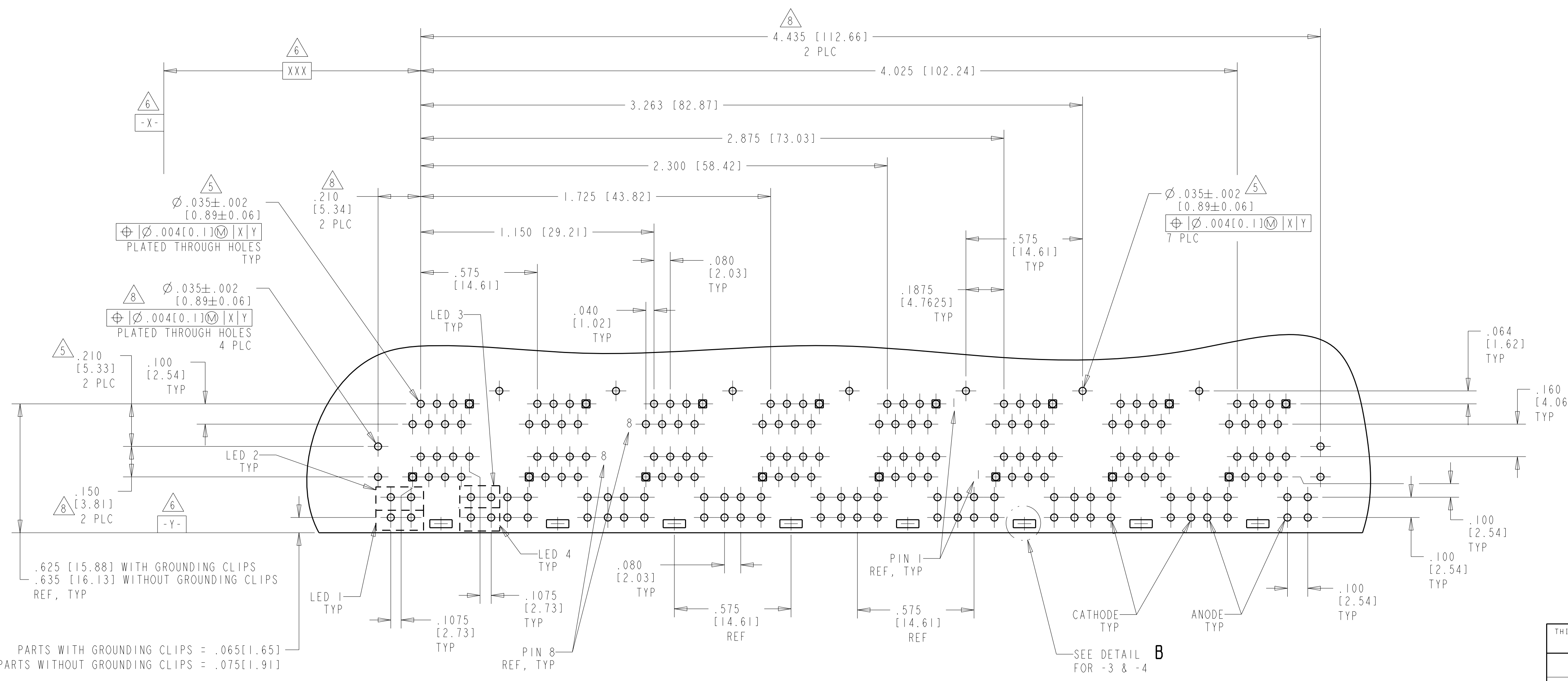
PC BOARD LAYOUT
(COMPONENT SIDE)

4.435 [112.66] 2 PLC
XXX
4.025 [102.24]
-X-
3.263 [82.87]
2.875 [73.03]
2.300 [58.42]
1.725 [43.82]
Ø .035±.002 [0.89±0.06]
⊕ Ø.004[0.1]Ⓜ X Y
PLATED THROUGH HOLES TYP
.210 [5.34] 2 PLC
Ø .035±.002 [0.89±0.06]
⊕ Ø.004[0.1]Ⓜ X Y
7 PLC
1.150 [29.21]
.575 [14.61]
.080 [2.03] TYP
.1875 [4.7625] TYP
.575 [14.61] TYP
Ø .035±.002 [0.89±0.06]
⊕ Ø.004[0.1]Ⓜ X Y
PLATED THROUGH HOLES 4 PLC
LED 3 TYP
.040 [1.02] TYP
.110 [2.8]
⊕ .004[0.1]Ⓜ X
.039 [1]
⊕ .004[0.1]Ⓜ Y
.210 [5.33] 2 PLC
.100 [2.54] TYP
LED 2 TYP
.064 [1.62] TYP
.160 [4.06] TYP
.150 [3.81] 2 PLC
-Y-
8
.044 [1.13]
Ⓒ OF PORT
DETAIL B
THESE PLATED PADS REQUIRED FOR 6116317-3 & -4
PRODUCTS WITH GROUNDING CLIPS
SCALE 10:1
8 PLACES
.625 [15.88] WITH GROUNDING CLIPS
.635 [16.13] WITHOUT GROUNDING CLIPS
REF, TYP
LED 1 TYP
LED 4 TYP
.1075 [2.73] TYP
PIN 8 REF, TYP
.080 [2.03] TYP
.575 [14.61] REF
.575 [14.61] REF
PIN 1 REF, TYP
CATHODE TYP
ANODE TYP
SEE DETAIL B FOR -3 & -4
.100 [2.54] TYP
.100 [2.54] TYP
.100 [2.54] TYP
PARTS WITH GROUNDING CLIPS = .065[1.65]
PARTS WITHOUT GROUNDING CLIPS = .075[1.91]

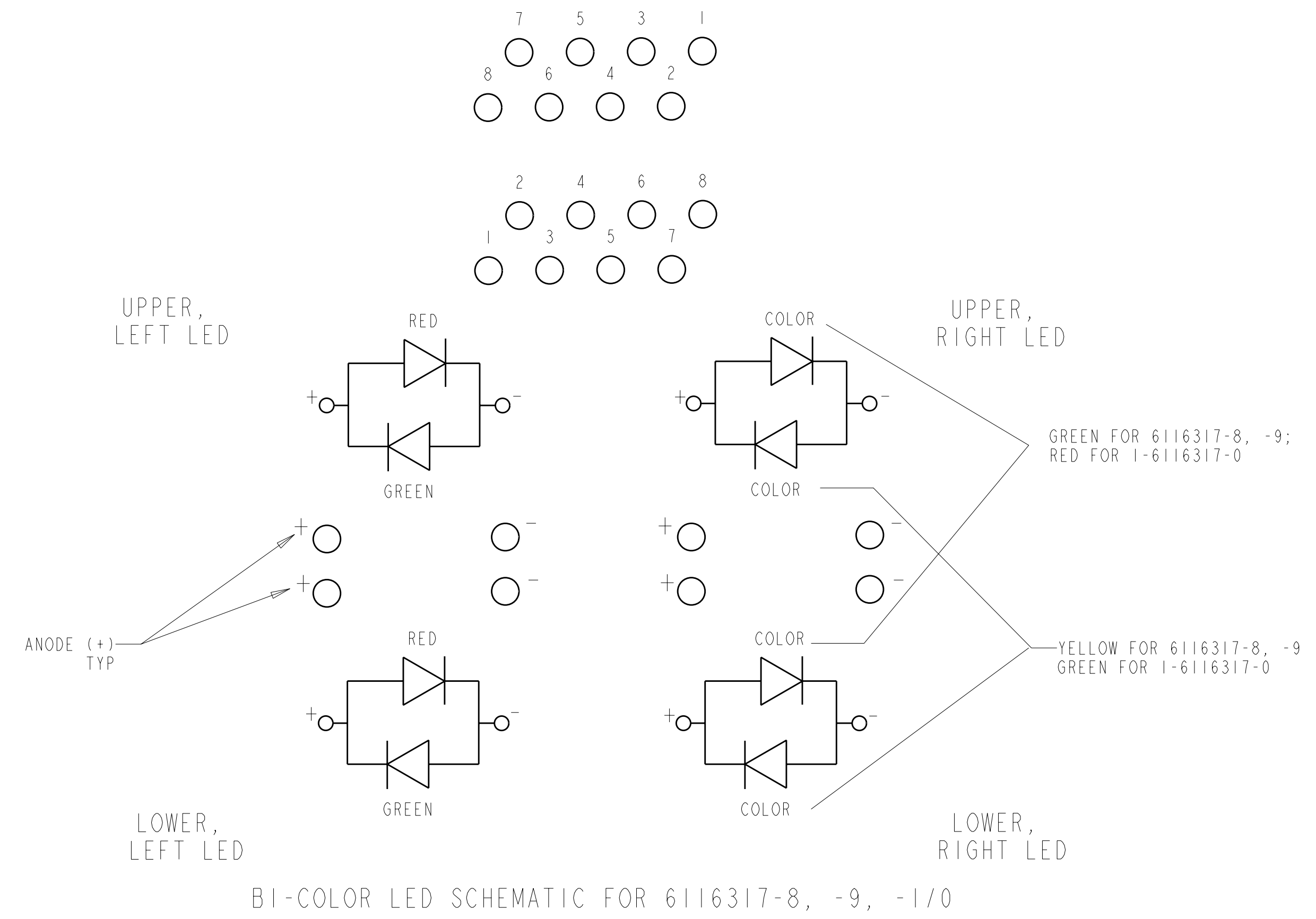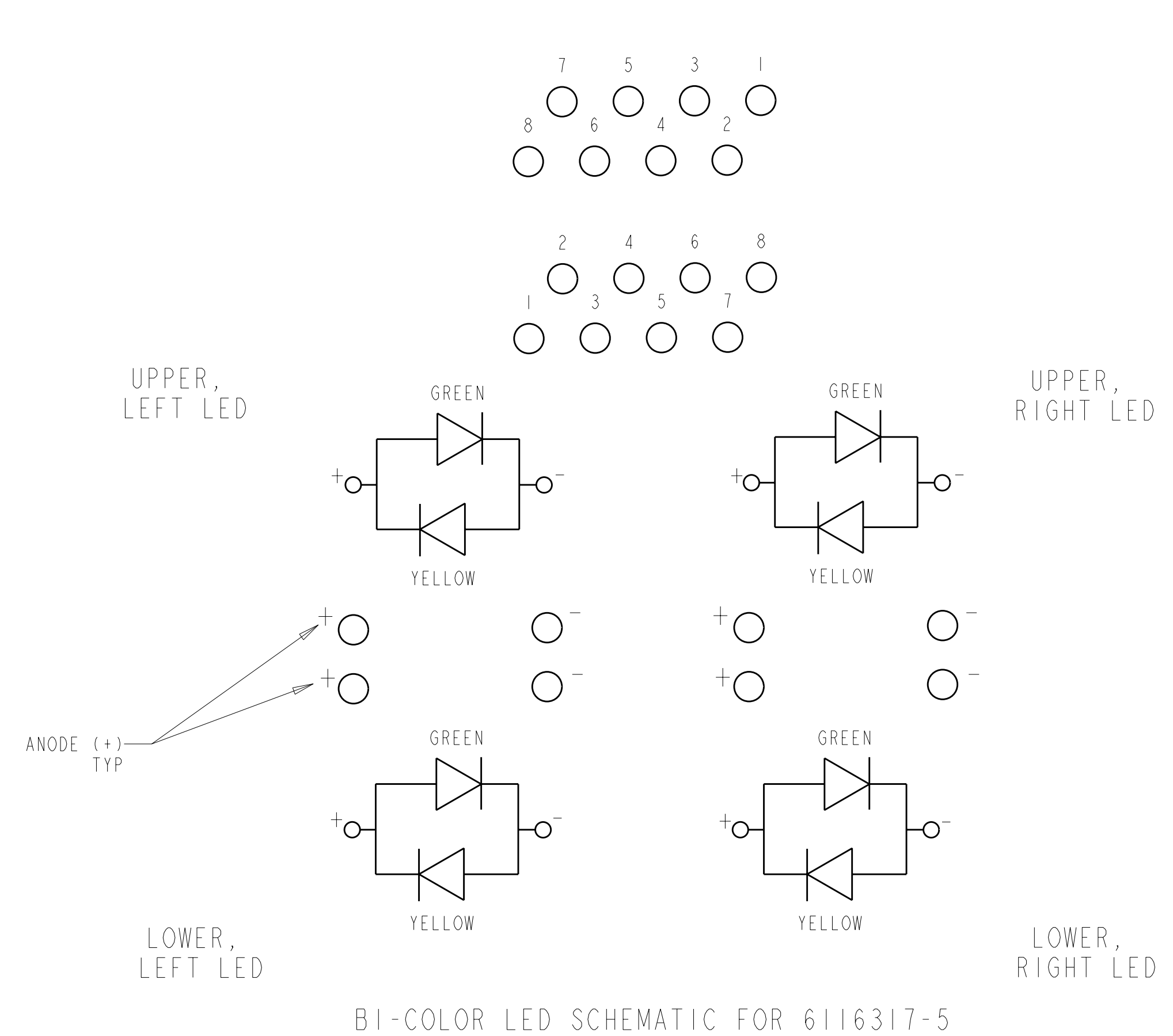|		DWN	L VARELA-DOCKS	23JUN2005		TE Connectivity
DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:	CHK	J WESTMAN	23JUN2005		
INCHES[mm]		APVD	S FLICKINGER	23JUN2005	NAME	STACKED MODULAR JACK ASSEMBLY, 2X8 WITH LEDS, 8 POSITION, SHIELDED PANEL GROUND, OFFSET, CAT 5
	0 PLC ±.		PRODUCT SPEC	108-1854		
	1 PLC ±.					
	2 PLC ±.		APPLICATION SPEC	114-2160		
	3 PLC ±.005 [0.13]					
	4 PLC ±.005 [0.13]		WEIGHT 77.2 grams	SIZE A1	CAGE CODE 00779	DRAWING NO Ⓒ-6116317	RESTRICTED TO -
	ANGLES ±					
MATERIAL -	FINISH -					
CUSTOMER DRAWING				SCALE 3:1	SHEET 2 OF 3	REV C2

LOC	DIST	REVISIONS				
AA	22	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

BI-COLOR LED SCHEMATIC FOR 6116317-5

UPPER, LEFT LED

UPPER, RIGHT LED

GREEN
YELLOW

GREEN
YELLOW

ANODE (+) TYP

GREEN
YELLOW

GREEN
YELLOW

LOWER, LEFT LED

LOWER, RIGHT LED

BI-COLOR LED SCHEMATIC FOR 6116317-8, -9, -1/0

UPPER, LEFT LED

UPPER, RIGHT LED

RED
GREEN

RED
GREEN

COLOR
COLOR

COLOR
COLOR

GREEN FOR 6116317-8, -9;
RED FOR 1-6116317-0

YELLOW FOR 6116317-8, -9
GREEN FOR 1-6116317-0

ANODE (+) TYP

LOWER, LEFT LED

LOWER, RIGHT LED

TE Connectivity