5748979-1 Product Details

5748979-1

TE Internal Number:
5748979-1

 Active

Standard Board Mount Connectors

 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:
- 9 Positions
- Connector Style = Receptacle
- PCB Mounting Orientation = Right Angle
- Product Series = HD 20
- With Mating Connector Lock

Documentation & Additional Information	
Product Drawings: • RECEPTACLE ASSEMBLY, SIZE 1, 9 POSN, ALL PLASTIC, RI... (PDF, English) **Catalog Pages/Data Sheets:** • AMPLIMITE Subminiature D Connectors - Right-Angle Po... (PDF, English) **Product Specifications:** • None Available **Application Specifications:** • None Available **Instruction Sheets:** • None Available **CAD Files:** • None Available	**Additional Information:** • Product Line Information **Related Products:** • Tooling • Mating Products (3)

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

Product Type Features:
- PCB Mounting Orientation = Right Angle
- Product Series = HD 20
- Mating Connector Lock = With
- Mating Connector Lock Type = Female Screwlocks, Fixed
- PCB Mount Retention = With
- PCB Mount Retention Type = Boardlock(s)
- Shell Type = All Plastic
- Shell Size = 1
- Footprint (mm [in]) = 8.08 [.318]
- Grounding Indents = Without
- Grounding Straps = Without
- PCB Mount Style = Through Hole
- Color Code = None
- Sealed = No
- Profile = Standard
- Eyelet Material = Brass

Mechanical Attachment:
- Panel Mount Retention = Without
- Boardlock Material = Copper Alloy
- Boardlock Plating = Tin

Termination Features:
- Grounding Clips = Without

Body Features:
- Female Screwlock Material = Zinc
- Female Screwlock Plating = Clear Chromate
- Eyelet Plating = Tin

Contact Features:
- Contact Plating, Mating Area, Material = Gold (30)
- Contact Base Material = Phosphor Bronze

Housing Features:
- Connector Style = Receptacle
- UL Flammability Rating = UL 94V-0
- Housing Material = Thermoplastic - GF

Configuration Features:
- Number of Positions = 9

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable to 260°C, Wave solder capable to 240°C, Wave solder capable to 265°C
- RoHS/ELV Compliance History = Always was RoHS compliant
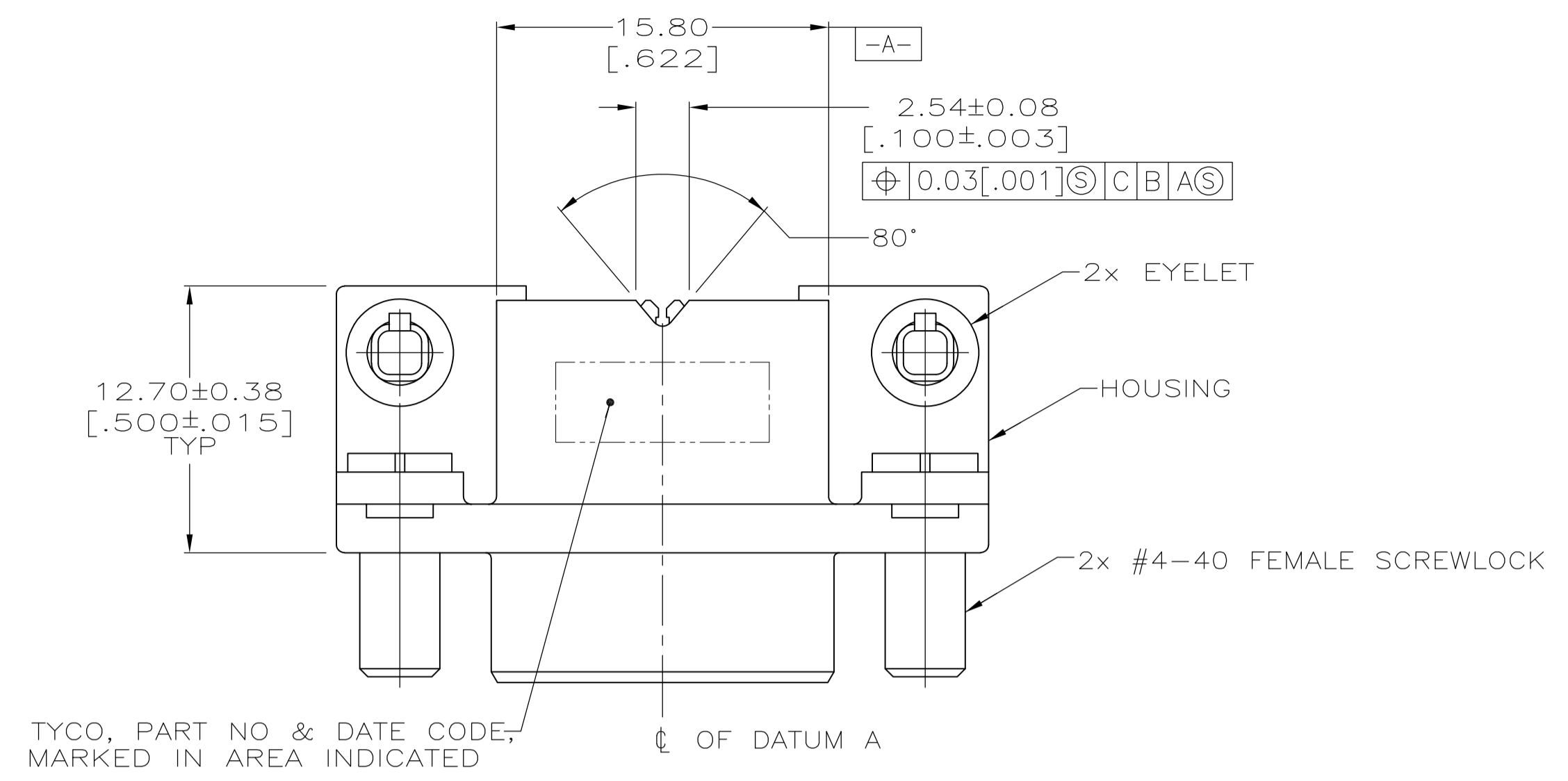
Operation/Application:

- Termination Post Length (mm [in]) = 3.18 [0.125]
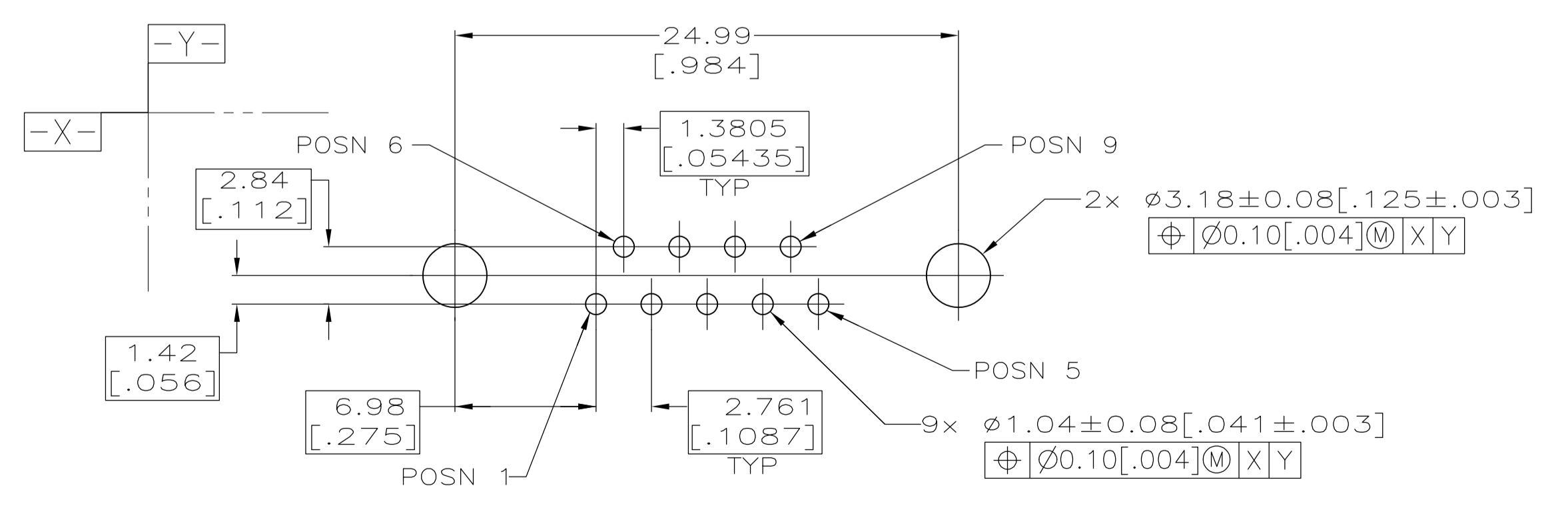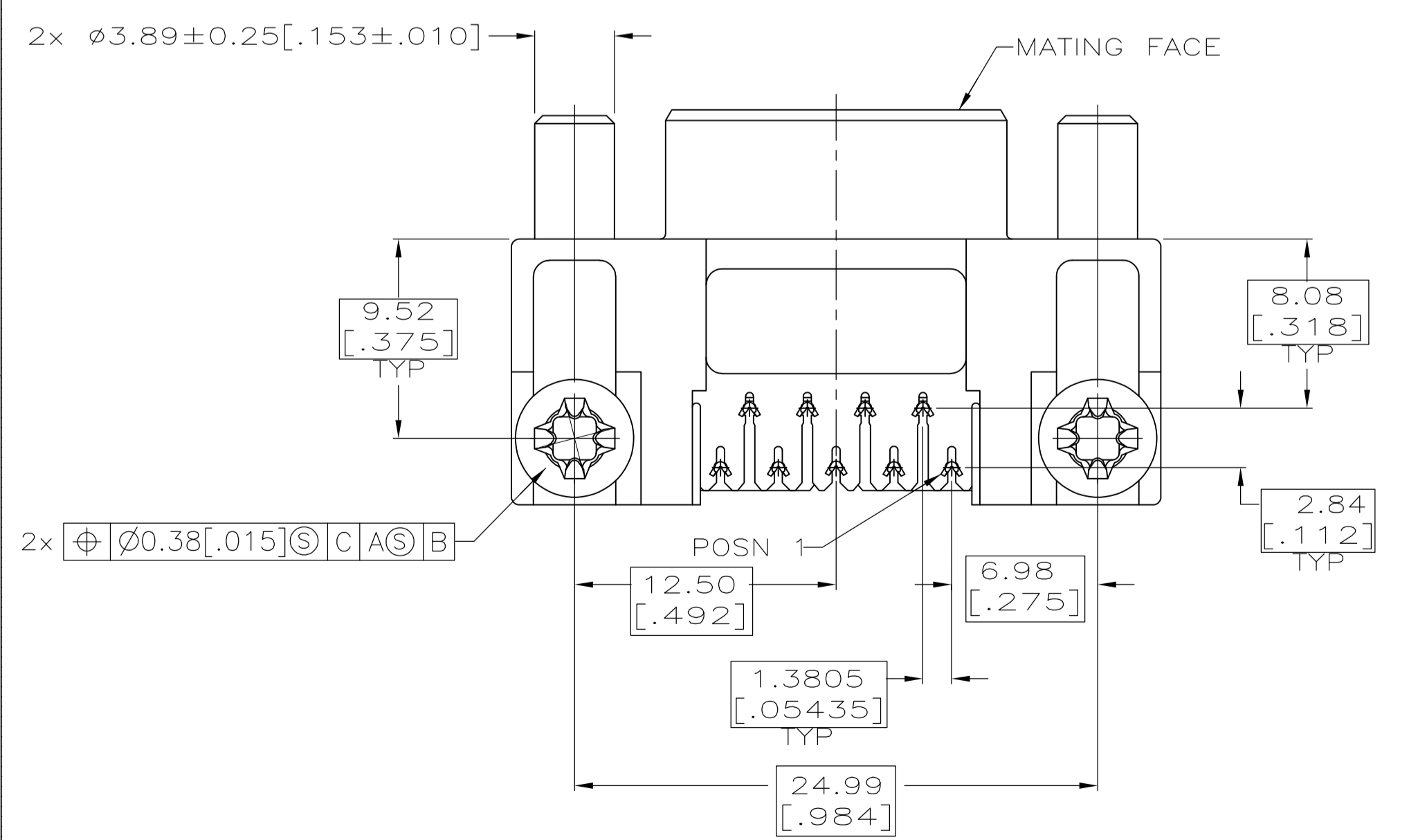- Solder Tail Contact Plating = Tin over Nickel

Dimensions:
- PCB Thickness, Recommended (in [mm]) = 0.062 [1.57]
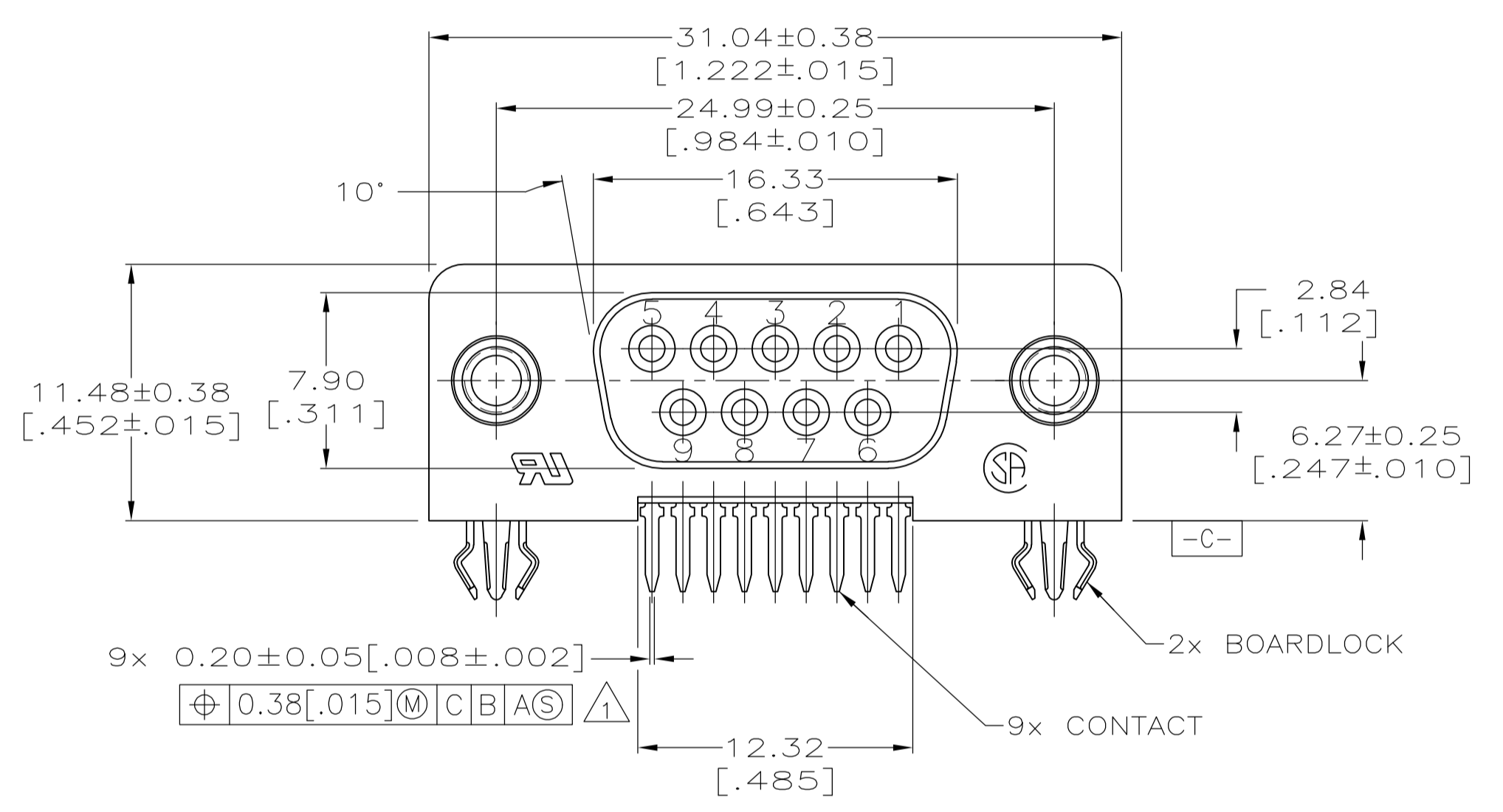
- Application = Standard

Other:
- Brand = AMP

LOC	DIST	REVISIONS				
GP	00					
		P	LTR	DESCRIPTION	DATE	DWN	APVD
			A	REVISED PER ECO-07-019535	21AUG07	BM	BS

15.80
[.622]

2.54±0.08
[.100±.003]

⊕ | 0.03[.001] | S | C | B | A S

80°

2× EYELET

HOUSING

12.70±0.38
[.500±.015]
TYP

2× #4-40 FEMALE SCREWLOCK

TYCO, PART NO & DATE CODE,
MARKED IN AREA INDICATED

℄ OF DATUM A

-A-

⚠1 POSITION TOLERANCE APPLIES AT TIP ONLY.

⚠2 HOUSING: FLAME RETARDENT, UL94V-0 RATED, GLASS FILLED
NYLON OR POLYESTER, COLOR BLACK.
CONTACTS: PHOSPHOR BRONZE.
EYELETS: BRASS.
SCREWLOCKS: ZINC.
BOARDLOCKS: COPPER ALLOY.

⚠3 EYELETS: 2.54 μm[.000100] MIN TIN OVER COPPER FLASH.
BOARDLOCKS: 3.81 μm[.00015] MIN TIN OVER 1.27 μm[.000050] MIN NICKEL.
CONTACTS: 0.76 μm[.00030] MIN GOLD FOR A LENGTH OF 1.52[.060] MIN
FROM MATING END, 2.54 μm[.0001] MIN TIN FOR A LENGTH OF 3.68[.145]
FROM OPPOSITE END, BOTH OVER 1.27 μm[.000050] MIN NICKEL.
SCREWLOCKS: CLEAR CHROMATE COATING.

⚠4 NO SCREWLOCKS. .126 MOUNTING HOLE.

31.04±0.38
[1.222±.015]

24.99±0.25
[.984±.010]

16.33
[.643]

10°

11.48±0.38
[.452±.015]

7.90
[.311]

5 4 3 2 1
9 8 7 6

2.84
[.112]

6.27±0.25
[.247±.010]

9× 0.20±0.05[.008±.002]

⊕ | 0.38[.015] | M | C | B | A S | ⚠

12.32
[.485]

9× CONTACT

2× BOARDLOCK

-C-

-B-

6.17
[.243]

12.01±0.38
[.473±.015]

1.27
[.050]

10.03±0.25
[.395±.010]

9× 0.216±0.010[.0085±.0004]

⊕ | 0.38[.015] | M | C | B | ⚠

3.18±0.51 TYP
[.125±.020]

BOARDLOCK REMOVED FOR CLARITY

2× Ø3.89±0.25[.153±.010]

MATING FACE

9.52
[.375]
TYP

8.08
[.318]
TYP

2.84
[.112]
TYP

2× | ⊕ | Ø0.38[.015] | S | C | A S | B

POSN 1

12.50
[.492]

6.98
[.275]
TYP

2.84
[.112]
TYP

1.3805
[.05435]
TYP

24.99
[.984]

PC BOARD MOUNTING DIMENSIONS
(.062 PC BOARD THICKNESS)

-Y-

-X-

24.99
[.984]

1.3805
[.05435]
TYP

POSN 6

POSN 9

2× Ø3.18±0.08[.125±.003]
⊕ | Ø0.10[.004] | M | X | Y

2.84
[.112]

1.42
[.056]

6.98
[.275]

2.761
[.1087]
TYP

POSN 5

9× Ø1.04±0.08[.041±.003]
⊕ | Ø0.10[.004] | M | X | Y

POSN 1

⚠4	5748979-2
	5748979-1
	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN	G.PETERS	22SEP05
CHK	S.BOLASH	22SEP05
APVD	M.WALMSLEY	22SEP05

Tyco Electronics

Tyco Electronics Corporation
Harrisburg, PA 17105-3608

DIMENSIONS:
mm [INCHES]

TOLERANCES UNLESS
OTHERWISE SPECIFIED:
0 PLC   ± –
1 PLC   ± –
2 PLC   ± 0.13 [.005]
3 PLC   ± –
4 PLC   ± –
ANGLES ± ± 2°

PRODUCT SPEC
108-1226

APPLICATION SPEC
114-40027

NAME
RECEPTACLE ASSEMBLY, SIZE 1, 9
POSN, ALL PLASTIC, RIGHT ANGLE,
.318 SERIES, AMPLIMITE III

| SIZE | CAGE CODE | DRAWING NO |
| A1 | 00779 | C-5748979 |

MATERIAL ⚠2

FINISH ⚠3

WEIGHT –

SCALE 4:1   SHEET 1 OF 1   REV A

RESTRICTED TO –

CUSTOMER DRAWING