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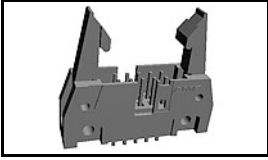
1-5499160-0 Product Details

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1-5499160-0

TE Internal Number: 1-5499160-0

✔ Active

📄 View 3D PDF

AMP-LATCH Pin and Pinless Headers

🍃 Always EU RoHS/ELV Compliant

(Statement of Compliance)

Product Highlights:
- Header
- Header Type = Universal Ejection Pin Headers
- AMP-LATCH Product Line
- Standard Profile
- 50 Positions

View all Features

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Documentation & Additional Information

Product Drawings:
- HEADER ASSY, UNIVERSAL, AMP-LATCH (PDF, English)

Catalog Pages/Data Sheets:
- Ribbon Cable Interconnect Solutions (PDF, English)

Product Specifications:
- AMP-LATCH and IDC Header Connectors, .100 x .100 Inc... (PDF, English)

Application Specifications:
- None Available

Instruction Sheets:
- None Available

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

Additional Information:
- Product Line Information

Related Products:
- Tooling
- Mating Products (5)

List all Documents

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

Product Type Features:
- Connector Type = Header
- Product Line = AMP-LATCH
- Profile = Standard
- PCB Mounting Orientation = Vertical
- PCB Mount Retention = Without
- Mating Connector Lock = With
- Ejection Latches = With
- Post Size (mm [in]) = 0.64 [.025]
- Latch Type = Short
- Mating Connector Lock Type = Latch

Termination Features:
- Termination Post Length (mm [in]) = 2.79 [0.110]

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

Housing Features:
- Centerline, Matrix (mm [in]) = 2.54 x 2.54 [.100 x .100]
- Mating Alignment Type = Center, Dual Polarizing Bar, Military
- Housing Style = 4-Sided
- Mating Alignment = With
- Housing Material = Thermoplastic - GF
- UL Flammability Rating = UL 94V-0
- Housing Color = Black

Configuration Features:
- Number of Positions = 50
- Shrouded = Yes

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV

[0.062]

Body Features:
- Header Type = Universal Ejection Pin Headers

Contact Features:
- Contact Plating, Mating Area, Material = Gold (30)
- Contact Shape = Square
- Solder Tail Contact Plating = Tin

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

Conditions for Usage:
- Temperature Rating = Standard

Other:
- Brand = AMP

LOC GP | DIST 00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	C1	REVISED PER ECO-11-004835	11MAR11	RK	HMR

EJECTION LATCHES OMITTED IN THIS VIEW FOR CLARITY

−Y−
−W−

2.54 [.100] TYP
3.81 [.150]
4.19 [.165] △3 TYP
4.83 [.190] 2 PLC

6.43±0.25 TYP [.253±.010]

8.53 [.336] TYP
8.00 [.315] TYP

3.81 [.150] △1
△1 △2 1.27 [.050]

−X−

A
B ±0.25 [±.010]
C ±0.25 [±.010]

HOUSING
POST, TYP

6.10 TYP [.240]
2.54 [.100] TYP

⊕ 0.38[.015] Ⓜ Z X
AT POST TIPS

0.64±0.03 [.025±.001] TYP

Ø0.64 ±0.05 [.025±.002] TYP

⊕ Ø 0.38[.015] Ⓜ Z X W Ⓢ
AT POST TIPS

2.72 [.107] TYP
7.34 [.289]

2.79 ± 0.25 TYP [.110±.010] SOLDER TAIL

SEE DETAIL V
SECTION T-T

POSN NO 1 INDICATOR

10.57 TYP [.416]
EJECTION LATCH, TYP

0.64±0.03 [.025±.001] TYP
⊕ 0.38[.015] Ⓜ Z X Y
AT POST TIPS

Ø2.44 ±0.08 [.096±.003] 2 PLC

AMP
Ⓤ Ⓡ

23.09 ±0.51 [.909±.020] TYP

13.94±0.20 [.549±.008] TYP

2.74 ±0.15 [.108±.006] 2 PLC

−Z−

S | S

4.95 [.195] 2 PLC

D ±0.25 [±.010]

5.08 MIN [.200] TYP
3.81 MIN [.150] TYP

GOLD FLASH TYP

LOCALIZED PLATE AREA

1.27 [.050] MAX TYP
GOLD FLASH TYP

DETAIL V
SCALE 10:1

Ø2.54 [.100] 2 PLC

3.73 [.147] 2 PLC

1.57 [.062] TYP

8.89 [.350]

VIEW S-S

2.54 [.100] TYP

(E)
(F)

2.54 [.100] TYP
⊕ Ø0.08 [.003] Ⓢ M N

Ø2.69 2 PLC [.106]

1.52 [.060]
8.89 [.350] 2 PLC

POS NO 1
Ø0.89 ±0.08 TYP [.035±.003]
⊕ Ø0.08 [.003] Ⓢ M N

△5 15.37 [.605] 2 PLC

−M−
−N− △8

RECOMMENDED PC BOARD MOUNTING DIMENSIONS
SCALE 2:1
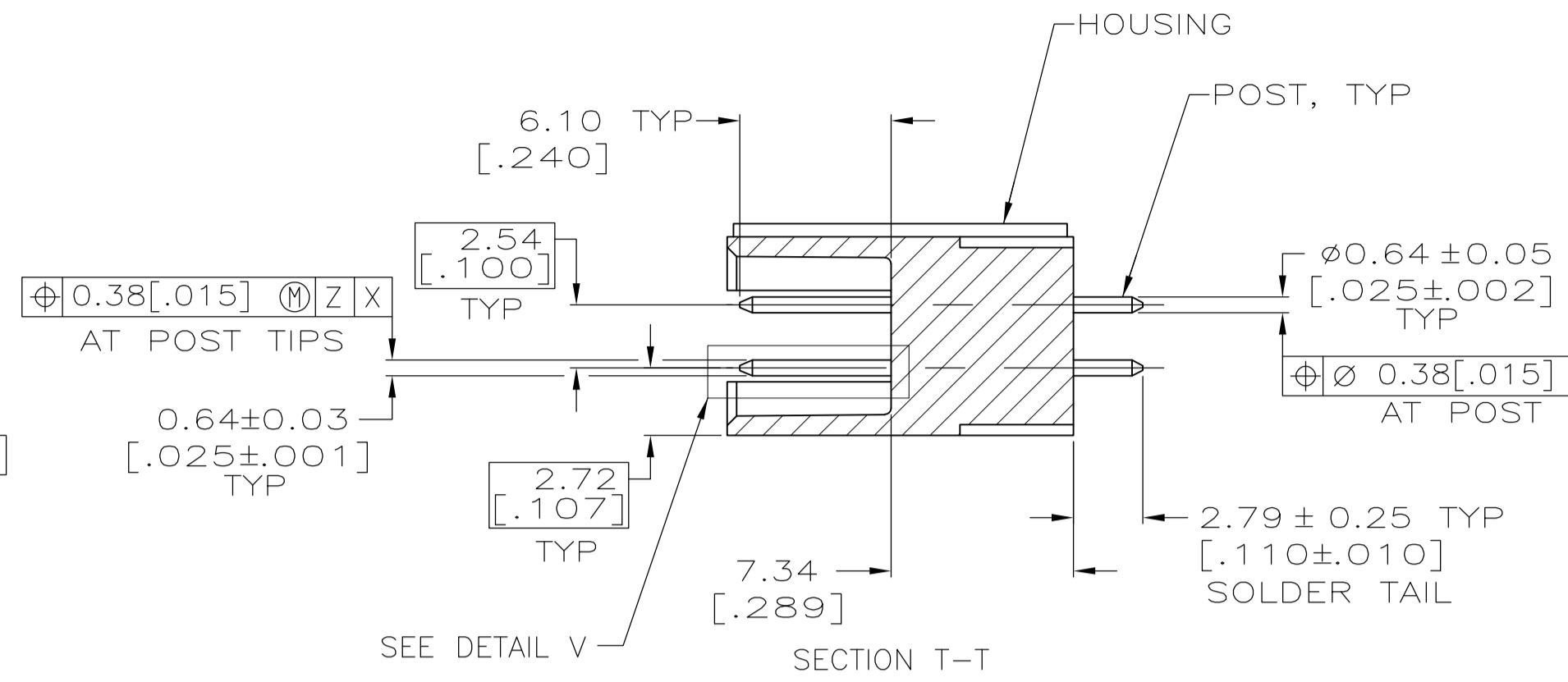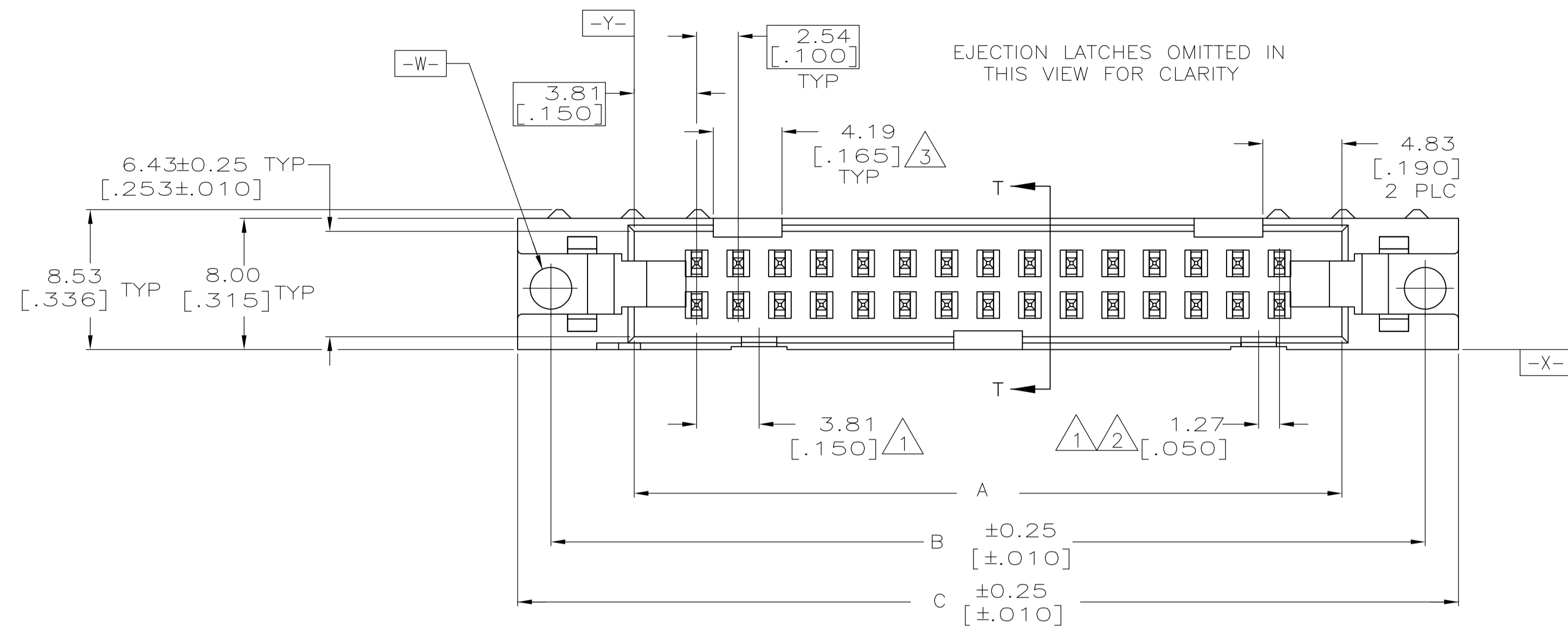
△1 COORDINATE DIMENSION APPLIES FROM BASIC LOCATION.

△2 10 AND 14 POSITION SIZES CONTAIN ONLY ONE SLOT FOR SNAP-IN POLARIZER (MILITARY POLARIZATION) LOCATED AS SHOWN.

△3 10 POSITION SIZES CONTAIN ONLY ONE SLOT FOR DUAL POLARIZATION, LOCATED AS SHOWN.

4. RECOMMENDED PRINTED CIRCUIT BOARD THICKNESS IS 1.57 [.062].

△5 DISTANCE REQUIRED BY EJECTION LATCHES IN THE OPEN POSITION.

△6 HOUSING & LATCHES: GLASS FILLED NYLON OR POLYESTER, UL94V-0 RATED, BLACK. POSTS: PHOS BRONZE OR BRASS.

△7 POSTS:
GOLD FLASH OVER PALLADIUM-NICKEL PLATE, 0.38μm [.000015] MIN TOTAL ON THE LOCALIZED PLATE AREA,
2.54μm [.000100] MIN TIN PLATE ON THE SOLDER-TAIL,
1.27μm [.000050] MIN NICKEL UNDERPLATE ON THE ENTIRE POST.
OR
0.38μm [.000015] MIN GOLD PLATE ON THE LOCALIZED PLATE AREA,
2.54μm [.000100] MIN TIN PLATE ON THE SOLDER-TAIL,
1.27μm [.000050] MIN NICKEL UNDERPLATE ON THE ENTIRE POST.

△8 DATUMS −M− & −N− TO BE ESTABLISHED BY CUSTOMER.
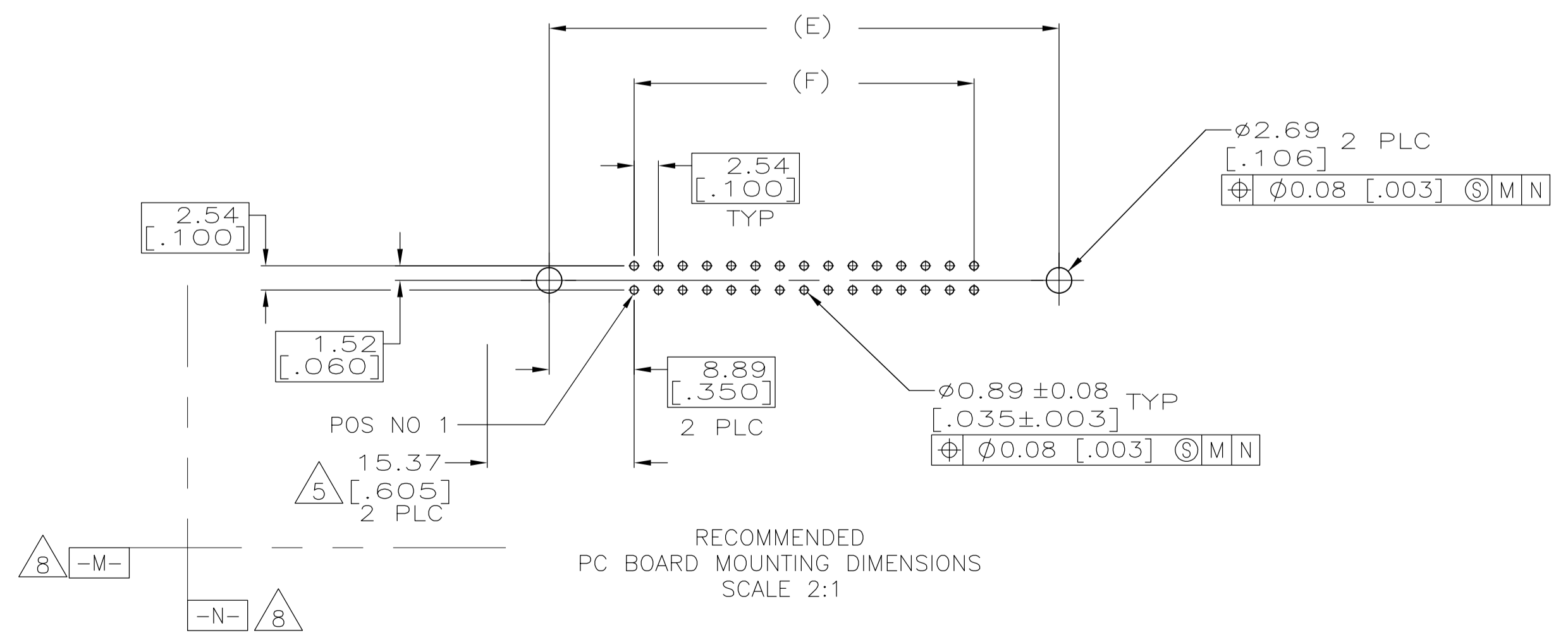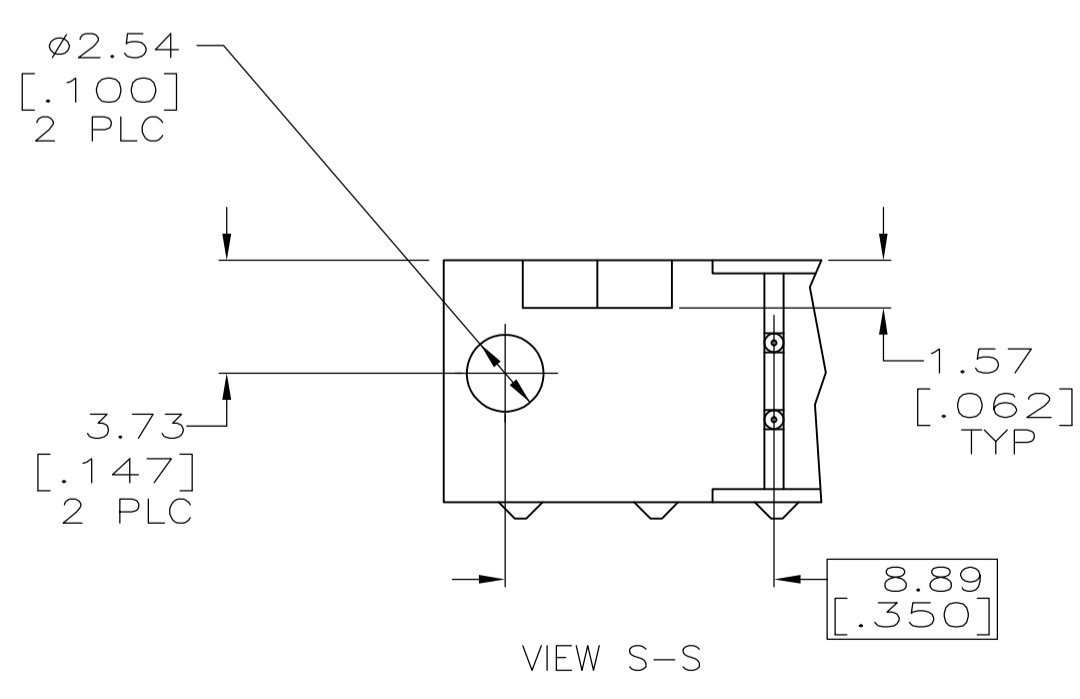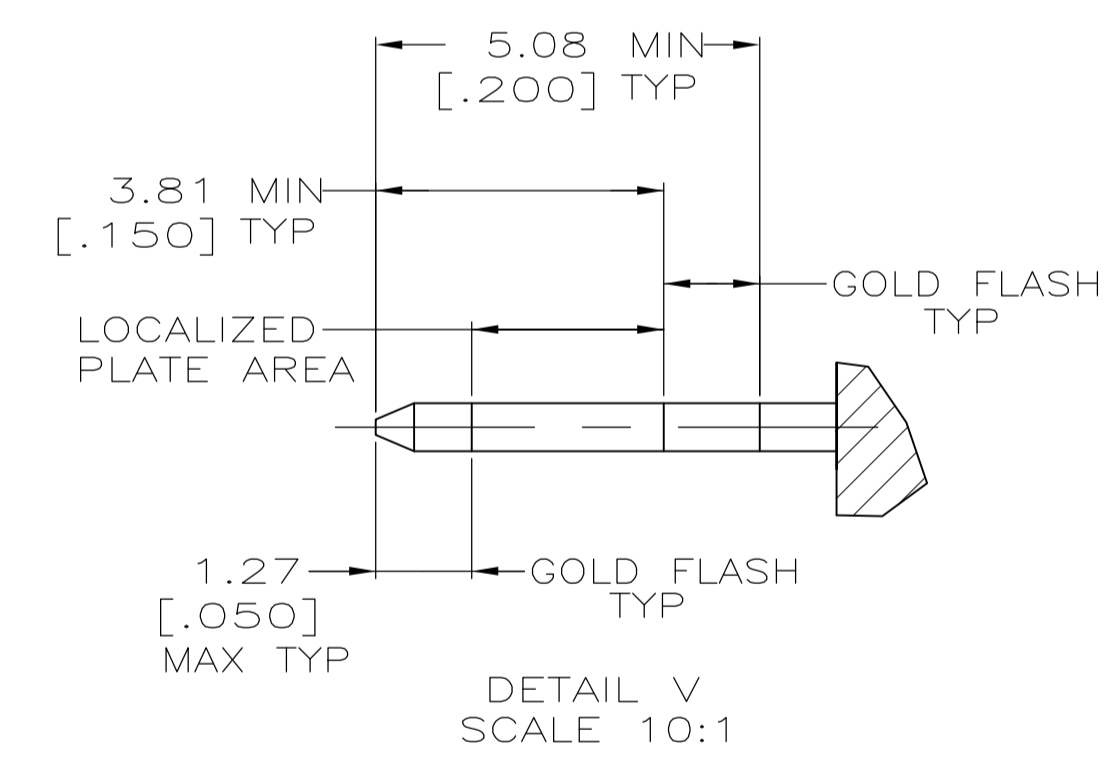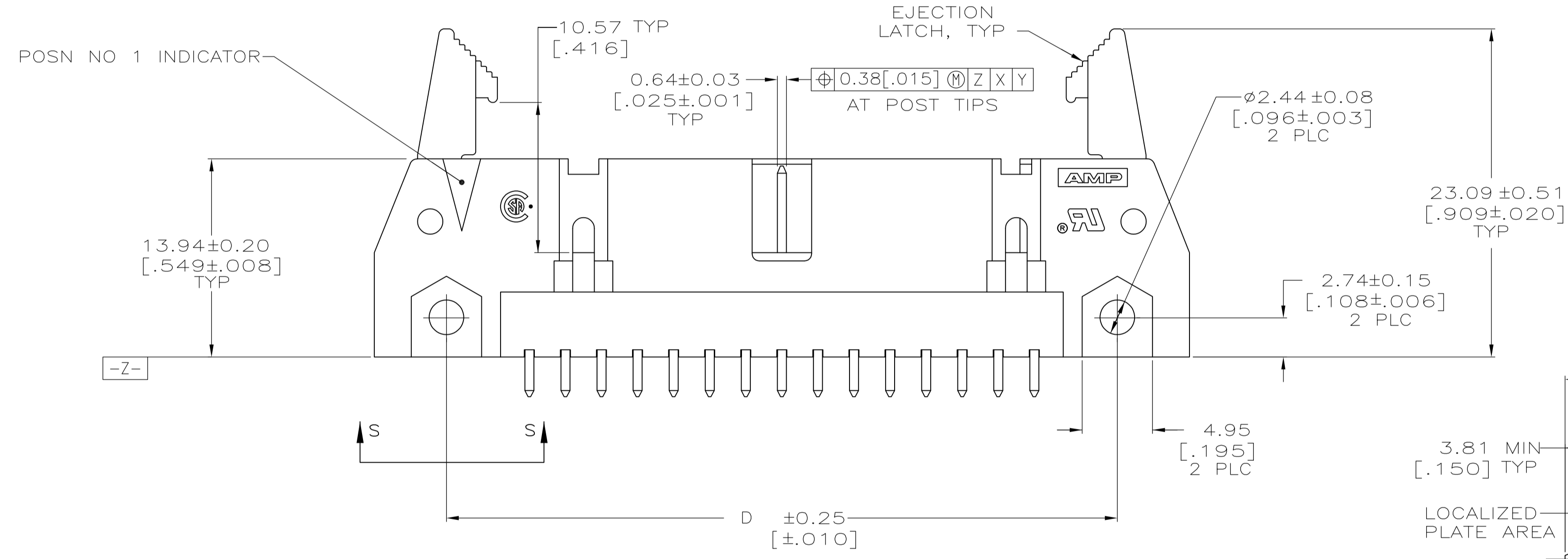
	F	E	D	C	B	A	NO OF POSN	PART NUMBER
OBSOLETE	78.74 [3.100]	96.52 [3.800]	90.42 [3.560]	100.58 [3.960]	96.52 [3.800]	86.36 [3.400]	64	1-5499910-2
OBSOLETE	73.66 [2.900]	91.44 [3.600]	85.34 [3.360]	95.50 [3.760]	91.44 [3.600]	81.28 [3.200]	60	1-5499910-1
	60.96 [2.400]	78.74 [3.100]	72.64 [2.860]	82.80 [3.260]	78.74 [3.100]	68.58 [2.700]	50	1-5499910-0
	48.26 [1.900]	66.04 [2.600]	59.94 [2.360]	70.10 [2.760]	66.04 [2.600]	55.88 [2.200]	40	5499910-9
	40.64 [1.600]	58.42 [2.300]	52.32 [2.060]	62.48 [2.460]	58.42 [2.300]	48.26 [1.900]	34	5499910-8
	35.56 [1.400]	53.34 [2.100]	47.24 [1.860]	57.40 [2.260]	53.34 [2.100]	43.18 [1.700]	30	5499910-7
	30.48 [1.200]	48.26 [1.900]	42.16 [1.660]	52.32 [2.060]	48.26 [1.900]	38.10 [1.500]	26	5499910-6
	27.94 [1.100]	45.72 [1.800]	39.62 [1.560]	49.78 [1.960]	45.72 [1.800]	35.56 [1.400]	24	5499910-5
	22.86 [.900]	40.64 [1.600]	34.54 [1.360]	44.70 [1.760]	40.64 [1.600]	30.48 [1.200]	20	5499910-4
	17.78 [.700]	35.56 [1.400]	29.46 [1.160]	39.62 [1.560]	35.56 [1.400]	25.40 [1.000]	16	5499910-3
	15.24 [.600]	33.02 [1.300]	26.92 [1.060]	37.08 [1.460]	33.02 [1.300]	22.86 [.900]	14	5499910-2
	10.16 [.400]	27.94 [1.100]	21.84 [.860]	32.00 [1.260]	27.94 [1.100]	17.78 [.700]	10	5499910-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN L. VARELA – DOCK5 01-11-05
CHK S. BOLASH 01-11-05
APVD M. WALMSLEY 01-11-05

≡TE TE Connectivity

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

PRODUCT SPEC 108-40018
APPLICATION SPEC –

NAME
HEADER ASSY, UNIVERSAL, AMP-LATCH
–

MATERIAL △6
FINISH △7
WEIGHT –

SIZE A1 | CAGE CODE 00779 | DRAWING NO C-5499910 | RESTRICTED TO –

CUSTOMER DRAWING
SCALE 4:1 | SHEET 1 OF 1 | REV C1