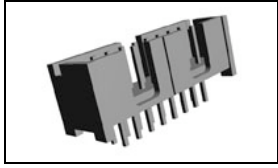# 103308-5 Product Details

103308-5

TE Internal Number: 103308-5

✔ Active

AMP-LATCH Pin and Pinless Headers

🍃 5 of 6 EU RoHS/ELV Compliant (Find RoHS Compliant Alternates/Statement of Compliance)

Product Highlights:
- Header
- Header Type = Pin Header
- AMP-LATCH Product Line
- Low Profile
- 20 Positions

Documentation & Additional Information	
Product Drawings: • HEADER ASSY, LOW PROFILE, AMP-LATCH (PDF, English) **Catalog Pages/Data Sheets:** • None Available **Product Specifications:** • None Available **Application Specifications:** • None Available **Instruction Sheets:** • None Available **CAD Files:** (CAD Format & Compression Information) • 2D Drawing (DXF, Version L) • 3D Model (IGES, Version L) • 3D Model (STEP, Version L)	**Additional Information:** • Product Line Information **Related Products:** • Tooling • Mating Products (1)

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

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

Electrical Characteristics:
- Current Rating (A) = 1
- Insulation Resistance (MΩ) = 5,000

Termination Features:
- Termination Post Length (mm [in]) = 3.05 [0.120]
- Solder Tail Contact Plating = Tin-Lead over Nickel

Dimensions:
- [Shrouded] End Dimension (mm [in]) = 3.81 [0.150]

Body Features:
- Header Type = Pin Header
- Daisy Chain = With

Contact Features:
- Contact Plating, Mating Area, Material = Gold (15), Gold Flash over Palladium Nickel
- Contact Shape = Square
- Contact Base Material = Copper Alloy

Housing Features:
- Centerline, Matrix (mm [in]) = 2.54 x 2.54 [.100 x .100]
- Mating Alignment Type = Center, Dual Polarizing Bar
- 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 = 20

Industry Standards:
- RoHS/ELV Compliance = ELV compliant, 5 of 6 Compliant
- Lead Free Solder Processes = Not suitable for lead free processing
- Approved Standards = UL E28476, CSA LR7189

Environmental:
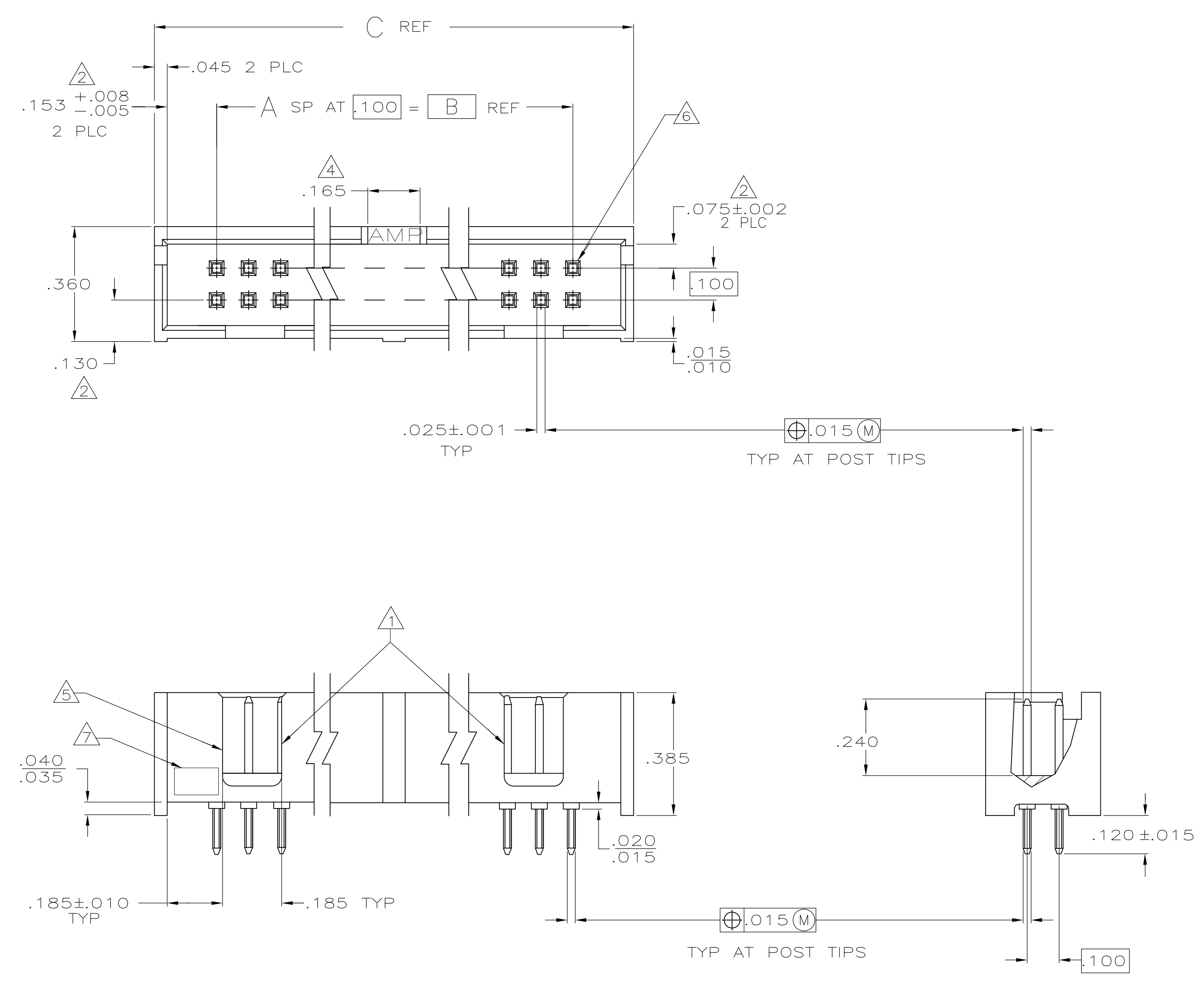- Operating Temperature (°C) = -65 – +105
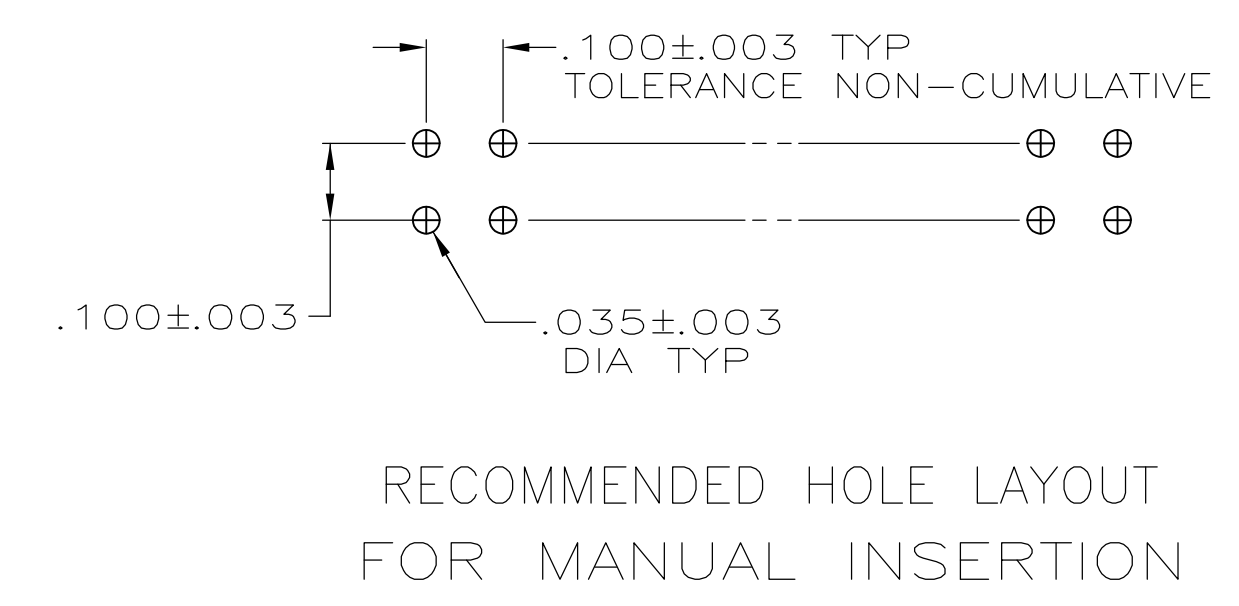
Conditions for Usage:
- Temperature Rating = Standard

Other:
- Brand = AMP

THIS DRAWING IS UNPUBLISHED.
RELEASED FOR PUBLICATION

LOC	DIST	REVISIONS				
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			M	REVISED PER ECO-11-003735	17MAR2011	CJV	SLB

△1 DOUBLE BAR POLARIZATION

△2 THE NOTED DIMENSIONS APPLY AT THE INTERSECTION OF THE POST AND HOUSING

△3 POSTS: GOLD FLASH OVER PALLADIUM-NICKEL PLATE, .000015 MIN TOTAL ON THE MATING SURFACES, .000100 MIN TIN-LEAD PLATE ON THE SOLDER-TAILS, .000050 MIN NICKEL UNDERPLATE ON THE ENTIRE POST.
—OR—
.000015 MIN GOLD PLATE ON THE MATING SURFACES, .000100 MIN TIN-LEAD PLATE ON THE SOLDER-TAILS, .000050 MIN NICKEL UNDERPLATE ON THE ENTIRE POST.

△4 CENTER POLARIZATION SLOT

△5 FOR 10 POSN ASSEMBLY, SLOT OMITTED WHERE INDICATED

△6 NUMBER 1 POSITION.

△7 OPTIONAL AMP IDENTIFICATION NUMBER (DATE CODE). LOCATION APPROXIMATELY WHERE SHOWN.

C REF

△2 .045 2 PLC

.153 +.008 −.005 2 PLC

A SP AT .100 = B REF

.165

AMP

.360

.075±.002 2 PLC

.100

.015 / .010

.130

.025±.001 TYP

⊕ .015 Ⓜ TYP AT POST TIPS

.100±.003 TYP
TOLERANCE NON-CUMULATIVE

.035±.003 DIA TYP

.100±.003

RECOMMENDED HOLE LAYOUT
FOR MANUAL INSERTION

.040 / .035

.385

.240

.020 / .015

.185±.010 TYP

.185 TYP

⊕ .015 Ⓜ TYP AT POST TIPS

.100

.120 ±.015

	C	B	A	NO OF POSN	ASSEMBLY PART NUMBER
	1.500	1.100	11	24	1-103308-3
	3.300	2.900	29	60	1-103308-2
OBSOLETE	3.100	2.700	27	56	1-103308-1
	2.800	2.400	24	50	1-103308-0
OBSOLETE	2.500	2.100	21	44	103308-9
	2.300	1.900	19	40	103308-8
	2.000	1.600	16	34	103308-7
	1.600	1.200	12	26	103308-6
	1.300	.900	9	20	103308-5
OBSOLETE	1.200	.800	8	18	103308-4
	1.100	.700	7	16	103308-3
	1.000	.600	6	14	103308-2
	.800	.400	4	10	103308-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN	H. MOLL	8-27-87
CHK	L. MEYER	9-03-87
APVD	R. FEIDT	9-03-87

DIMENSIONS: INCHES

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

PRODUCT SPEC 108-40018
APPLICATION SPEC –

MATERIAL HOUSING: GLASS FILLED NYLON OR PBT, BLACK, UL 94V-0 RATED. POSTS: BRASS

FINISH

WEIGHT –

≡TE TE Connectivity

NAME HEADER ASSY, LOW PROFILE, AMP-LATCH

| SIZE | CAGE CODE | DRAWING NO | | RESTRICTED TO |
| A1 | 00779 | C-103308 | | – |

CUSTOMER DRAWING

SCALE 4:1 SHEET 1 OF 1 REV M