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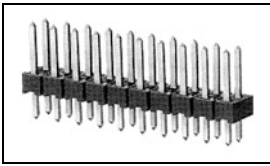
5-146256-2 Product Details

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5-146256-2

TE Internal Number: 5-146256-2

✔ Active

📄 View 3D PDF

.100 inch AMPMODU Headers

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

Product Highlights:
- Connector
- Header Type = Breakaway
- 4 Positions
- Mating Post Length = 5.84 mm
- Row-to-Row Spacing = 2.54 mm

View all Features

Quick Links
- ▸ Pricing & Availability
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Documentation & Additional Information

Product Drawings:
- HEADER ASSEMBLY, MOD , BREAKAWAY, DOUBLE ROW, VE... (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 F)
- 3D Model (IGES, Version F)
- 3D Model (STEP, Version F)

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
- Mount Angle = Vertical
- PCB Mount Retention = Without
- Board Standoff = With
- Mating Connector Lock = Without
- Post Size (mm [in]) = 0.64 [.025]

Mechanical Attachment:
- Mounting Ears = Without
- Panel Mount Retention = Without

Electrical Characteristics:
- Insulation Resistance (MΩ) = 5,000
- Dielectric Withstanding Voltage (V) = 750

Termination Features:
- Termination Post Length (mm [in]) = 3.05 [0.120]

Dimensions:
- Mating Post Length (mm [in]) = 5.84 [0.230]

Body Features:
- Header Type = Breakaway
- Row-to-Row Spacing (mm [in]) = 2.54 [0.100]
- Selectively Loaded = No
- Mount Type = Printed Circuit Board

Contact Features:
- Contact Plating, Mating Area, Material = Gold (15)
- Solder Tail Contact Plating = Matte Tin over Nickel, Tin over Nickel
- Contact Shape = Square
- Contact Base Material = Phosphor Bronze

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

Configuration Features:
- Number of Positions = 4
- Number of Rows = 2
- Surface Mount Compatible = Yes

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable to 240°C, Wave solder capable to 260°C, Wave solder capable to 265°C, Reflow solder capable to 245°C, Reflow solder capable to 260°C, Pin-in-Paste capable to 245°C, Pin-in-Paste capable to 260°C
- RoHS/ELV Compliance History = Always was RoHS compliant

Environmental:
- Operating Temperature (°C) = -65 – +105
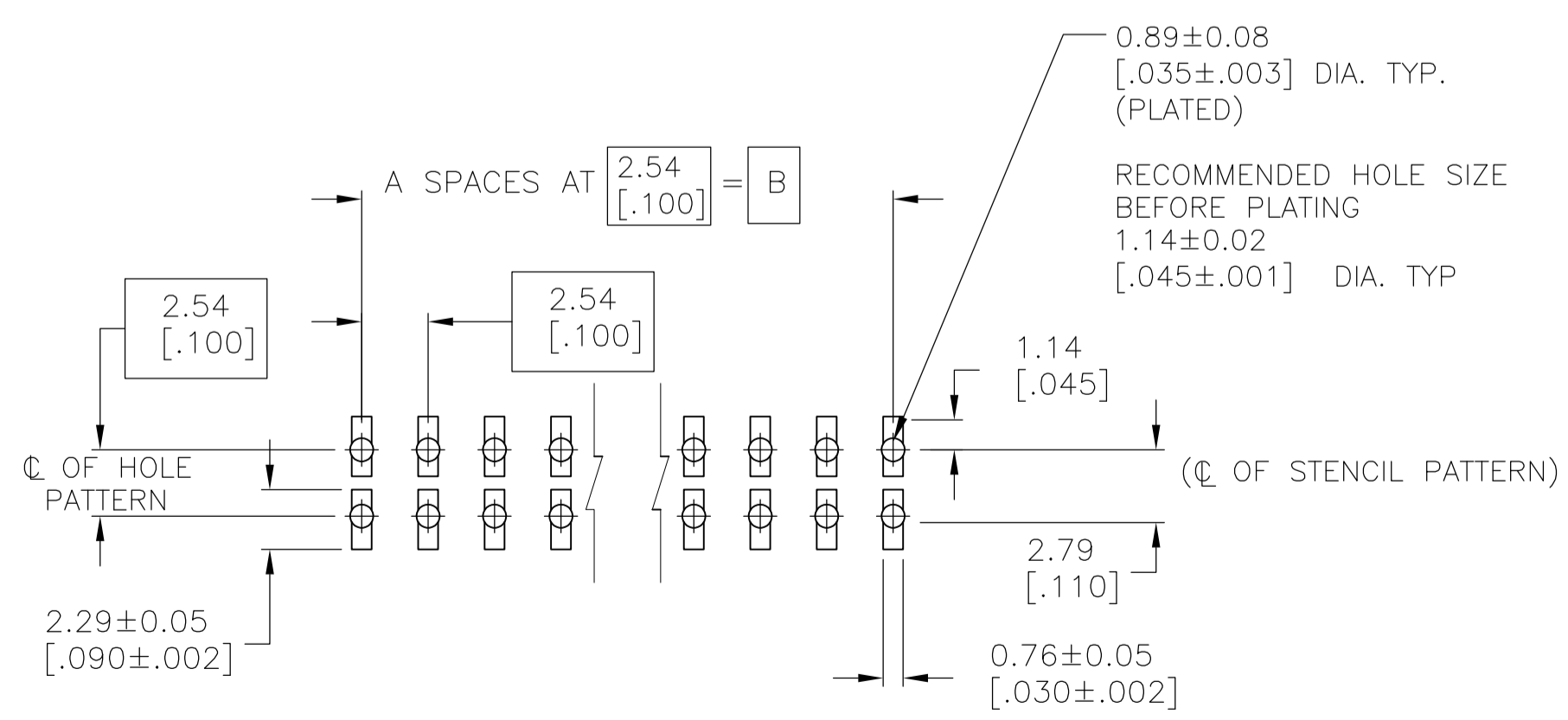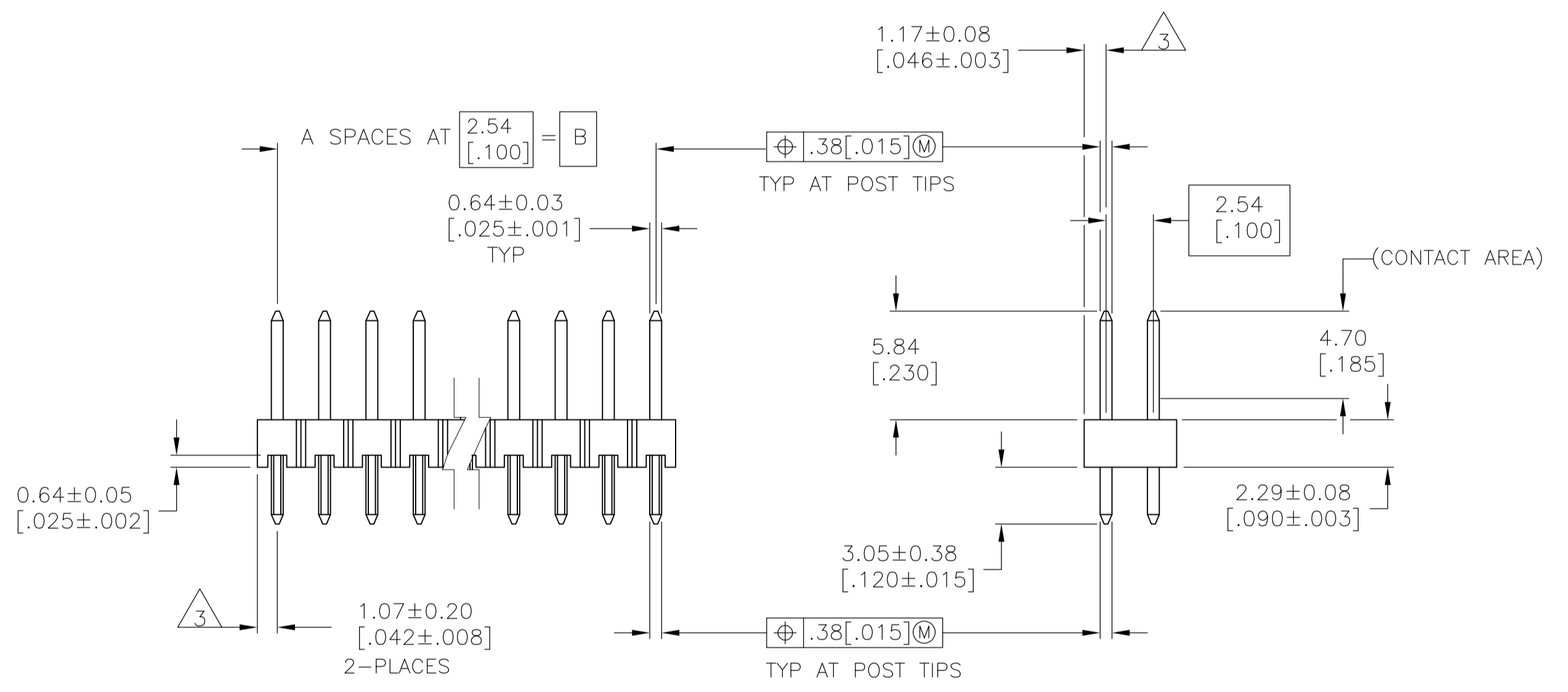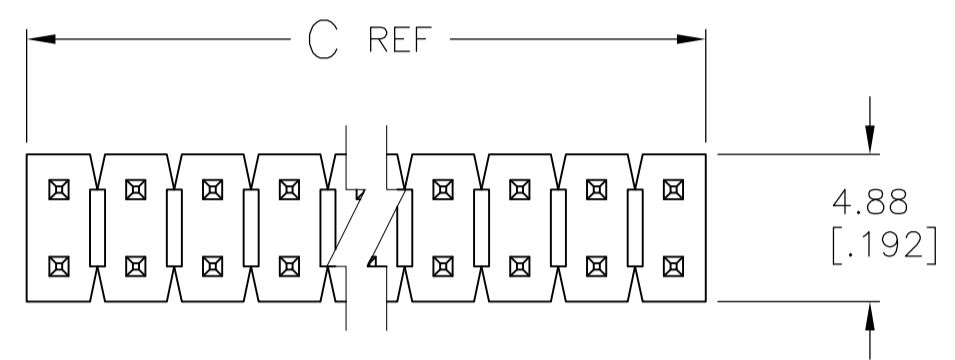
Conditions for Usage:
- High Temperature Housing = Yes

Operation/Application:
- High Speed Serial Data Connector = No

Other:
- Brand = AMP

LOC AD | DIST 00

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	F2	REVISED PER ECO-11-004587	11MAR11	RK	HMR

1. ASSEMBLY MAY BE BROKEN TO THE DESIRED NUMBER OF POSITIONS

2. TRUE POSITION TOLERANCE OF THE POST TIPS APPLIES WHEN THE HEADER IS HELD FLAT AGAINST THE PRINTED CIRCUIT BOARD

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

△4 PLATING: 0.000381 [.000015] GOLD ON CONTACT AREA, .00254-0.00508 [.0000100-.0000200] MATTE TIN-LEAD ON SOLDER TAIL, ALL OVER 0.00127 [.000050] NICKEL.

△5 HOUSING: LCP, COLOR-BLACK. POST: PHOSPHOR BRONZE

△6 PLATING: 0.000381 [.000015] GOLD ON CONTACT AREA, .00254-0.00508 [.0000100-.0000200] MATTE TIN ON SOLDER TAIL, ALL OVER 0.00127 [.000050] NICKEL.

△7 OBSOLETE PARTS: OBSOLETE CIS STREAMLINING PER D.RENAUD/D.SINISI

C REF

4.88 [.192]

A SPACES AT 2.54 [.100] = B

0.64±0.03 [.025±.001] TYP

1.17±0.08 [.046±.003]

⊕ .38 [.015] Ⓜ
TYP AT POST TIPS

2.54 [.100]

(CONTACT AREA)

5.84 [.230]

4.70 [.185]

0.64±0.05 [.025±.002]

2.29±0.08 [.090±.003]

3.05±0.38 [.120±.015]

⊕ .38 [.015] Ⓜ
TYP AT POST TIPS

1.07±0.20 [.042±.008]
2-PLACES

A SPACES AT 2.54 [.100] = B

2.54 [.100]

2.54 [.100]

0.89±0.08 [.035±.003] DIA. TYP. (PLATED)

RECOMMENDED HOLE SIZE BEFORE PLATING
1.14±0.02 [.045±.001] DIA. TYP

1.14 [.045]

(Ⓒ OF STENCIL PATTERN)

Ⓒ OF HOLE PATTERN

2.29±0.05 [.090±.002]

2.79 [.110]

0.76±0.05 [.030±.002]

RECOMMENDED PC BOARD MOUNTING DIMENSIONS FOR .063 [1.60] THICK PC BOARD AND .012 [.305] STENCIL THICK

Left table:

PLATING	C	B	A	NO. OF POSITIONS	PART NUMBER
△6	101.19 [3.984]	99.06 [3.900]	39	80	9-146256-0
△7 △6	98.65 [3.884]	96.52 [3.800]	38	78	8-146256-9
△7 △6	96.11 [3.784]	93.98 [3.700]	37	76	8-146256-8
△7 △6	93.57 [3.684]	91.44 [3.600]	36	74	8-146256-7
△7 △6	91.03 [3.584]	88.90 [3.500]	35	72	8-146256-6
△7 △6	88.49 [3.484]	86.36 [3.400]	34	70	8-146256-5
△7 △6	85.95 [3.384]	83.82 [3.300]	33	68	8-146256-4
△7 △6	83.41 [3.284]	81.28 [3.200]	32	66	8-146256-3
△7 △6	80.87 [3.184]	78.74 [3.100]	31	64	8-146256-2
△7 △6	78.33 [3.084]	76.20 [3.000]	30	62	8-146256-1
△6	75.79 [2.984]	73.66 [2.900]	29	60	8-146256-0
△7 △6	73.25 [2.884]	71.12 [2.800]	28	58	7-146256-9
△7 △6	70.71 [2.784]	68.58 [2.700]	27	56	7-146256-8
△7 △6	68.17 [2.684]	66.04 [2.600]	26	54	7-146256-7
△7 △6	65.63 [2.584]	63.5 [2.500]	25	52	7-146256-6
△7 △6	63.09 [2.484]	60.96 [2.400]	24	50	7-146256-5
△7 △6	60.55 [2.384]	58.42 [2.300]	23	48	7-146256-4
△7 △6	58.01 [2.284]	55.88 [2.200]	22	46	7-146256-3
△7 △6	55.47 [2.184]	53.34 [2.100]	21	44	7-146256-2
△7 △6	52.93 [2.084]	50.80 [2.000]	20	42	7-146256-1
△6	50.39 [1.984]	48.26 [1.900]	19	40	7-146256-0
△7 △6	47.85 [1.884]	45.72 [1.800]	18	38	6-146256-9
△7 △6	45.31 [1.784]	43.18 [1.700]	17	36	6-146256-8
△7 △6	42.77 [1.684]	40.64 [1.600]	16	34	6-146256-7
△7 △6	40.23 [1.584]	38.10 [1.500]	15	32	6-146256-6
△7 △6	37.69 [1.484]	35.56 [1.400]	14	30	6-146256-5
△7 △6	35.15 [1.384]	33.02 [1.300]	13	28	6-146256-4
△6	32.61 [1.284]	30.48 [1.200]	12	26	6-146256-3
△6	30.07 [1.184]	27.94 [1.100]	11	24	6-146256-2
△7 △6	27.53 [1.084]	25.40 [1.000]	10	22	6-146256-1
△6	24.99 [.984]	22.86 [.900]	9	20	6-146256-0
△6	22.45 [.884]	20.32 [.800]	8	18	5-146256-9
△6	19.91 [.784]	17.78 [.700]	7	16	5-146256-8
△6	17.37 [.684]	15.24 [.600]	6	14	5-146256-7
△6	14.83 [.584]	12.70 [.500]	5	12	5-146256-6
△6	12.29 [.484]	10.16 [.400]	4	10	5-146256-5
△6	9.75 [.384]	7.62 [.300]	3	8	5-146256-4
△6	7.21 [.284]	5.08 [.200]	2	6	5-146256-3
△6	4.67 [.184]	2.54 [.100]	1	4	5-146256-2
△6	2.13 [.084]	– [–]	0	2	5-146256-1

Right table:

PLATING	C	B	A	NO. OF POSITIONS	PART NUMBER
△4	101.19 [3.984]	99.06 [3.900]	39	80	4-146256-0
△7 △4	98.65 [3.884]	96.52 [3.800]	38	78	3-146256-9
△7 △4	96.11 [3.784]	93.98 [3.700]	37	76	3-146256-8
△7 △4	93.57 [3.684]	91.44 [3.600]	36	74	3-146256-7
△7 △4	91.03 [3.584]	88.90 [3.500]	35	72	3-146256-6
△7 △4	88.49 [3.484]	86.36 [3.400]	34	70	3-146256-5
△7 △4	85.95 [3.384]	83.82 [3.300]	33	68	3-146256-4
△7 △4	83.41 [3.284]	81.28 [3.200]	32	66	3-146256-3
△7 △4	80.87 [3.184]	78.74 [3.100]	31	64	3-146256-2
△7 △4	78.33 [3.084]	76.20 [3.000]	30	62	3-146256-1
△4	75.79 [2.984]	73.66 [2.900]	29	60	3-146256-0
△7 △4	73.25 [2.884]	71.12 [2.800]	28	58	2-146256-9
△7 △4	70.71 [2.784]	68.58 [2.700]	27	56	2-146256-8
△7 △4	68.17 [2.684]	66.04 [2.600]	26	54	2-146256-7
△7 △4	65.63 [2.584]	63.5 [2.500]	25	52	2-146256-6
△7 △4	63.09 [2.484]	60.96 [2.400]	24	50	2-146256-5
△7 △4	60.55 [2.384]	58.42 [2.300]	23	48	2-146256-4
△7 △4	58.01 [2.284]	55.88 [2.200]	22	46	2-146256-3
△7 △4	55.47 [2.184]	53.34 [2.100]	21	44	2-146256-2
△7 △4	52.93 [2.084]	50.80 [2.000]	20	42	2-146256-1
△4	50.39 [1.984]	48.26 [1.900]	19	40	2-146256-0
△7 △4	47.85 [1.884]	45.72 [1.800]	18	38	1-146256-9
△7 △4	45.31 [1.784]	43.18 [1.700]	17	36	1-146256-8
△7 △4	42.77 [1.684]	40.64 [1.600]	16	34	1-146256-7
△7 △4	40.23 [1.584]	38.10 [1.500]	15	32	1-146256-6
△7 △4	37.69 [1.484]	35.56 [1.400]	14	30	1-146256-5
△7 △4	35.15 [1.384]	33.02 [1.300]	13	28	1-146256-4
△4	32.61 [1.284]	30.48 [1.200]	12	26	1-146256-3
△4	30.07 [1.184]	27.94 [1.100]	11	24	1-146256-2
△7 △4	27.53 [1.084]	25.40 [1.000]	10	22	1-146256-1
△4	24.99 [.984]	22.86 [.900]	9	20	1-146256-0
△4	22.45 [.884]	20.32 [.800]	8	18	146256-9
△7 △4	19.91 [.784]	17.78 [.700]	7	16	146256-8
△7 △4	17.37 [.684]	15.24 [.600]	6	14	146256-7
△4	14.83 [.584]	12.70 [.500]	5	12	146256-6
△4	12.29 [.484]	10.16 [.400]	4	10	146256-5
△7 △4	9.75 [.384]	7.62 [.300]	3	8	146256-4
△4	7.21 [.284]	5.08 [.200]	2	6	146256-3
△4	4.67 [.184]	2.54 [.100]	1	4	146256-2
△7 △4	2.13 [.084]	– [–]	0	2	146256-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm [INCHES]

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± 0.51 [.02]
3 PLC ± 0.127 [.005]
4 PLC ± 0.0127 [.0005]
ANGLES ± –

MATERIAL: △5
FINISH: SEE TABLE

DWN T. HOFFMAN 08-05-95
CHK G. DUBNICZKI 24-10-95
APVD G.C. DUBNICZKI 24-10-95

PRODUCT SPEC –
APPLICATION SPEC –
WEIGHT –

TE Connectivity

NAME HEADER ASSEMBLY, MOD II, BREAKAWAY, DOUBLE ROW, VERTICAL, HIGH TEMPERATURE

SIZE A1 | CAGE CODE 00779 | DRAWING NO ©-146256

RESTRICTED TO –

SCALE 4:1 | SHEET 1 OF 1 | REV F2

CUSTOMER DRAWING

4805 (3/11)