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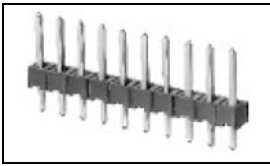| Products | Industries | Resources | About TE | My Account | Innovation | Support Center |

5-146285-2 Product Details

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5-146285-2

TE Internal Number: 5-146285-2

✔ Active

📄 View 3D PDF

.100 inch AMPMODU Headers

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

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

View all Features

Quick Links
- ▶ Pricing & Availability
- ▶ Search for Tooling
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Documentation & Additional Information

Product Drawings:
- HEADER ASSEMBLY, MOD II, BREAKWAY, SINGLE ROW, HIGH... (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

Termination Features:
- Termination Post Length (mm [in]) = 2.29 [0.090]

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 (30)
- Solder Tail Contact Plating = Tin over Nickel, Matte Tin over Nickel
- Contact Shape = Square
- Contact Base Material = Phosphor Bronze

Housing Features:
- Housing Material = Liquid Crystal Polymer (LCP)
- UL Flammability Rating = UL 94V-0

Configuration Features:
- Number of Positions = 2
- Number of Rows = 1
- 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
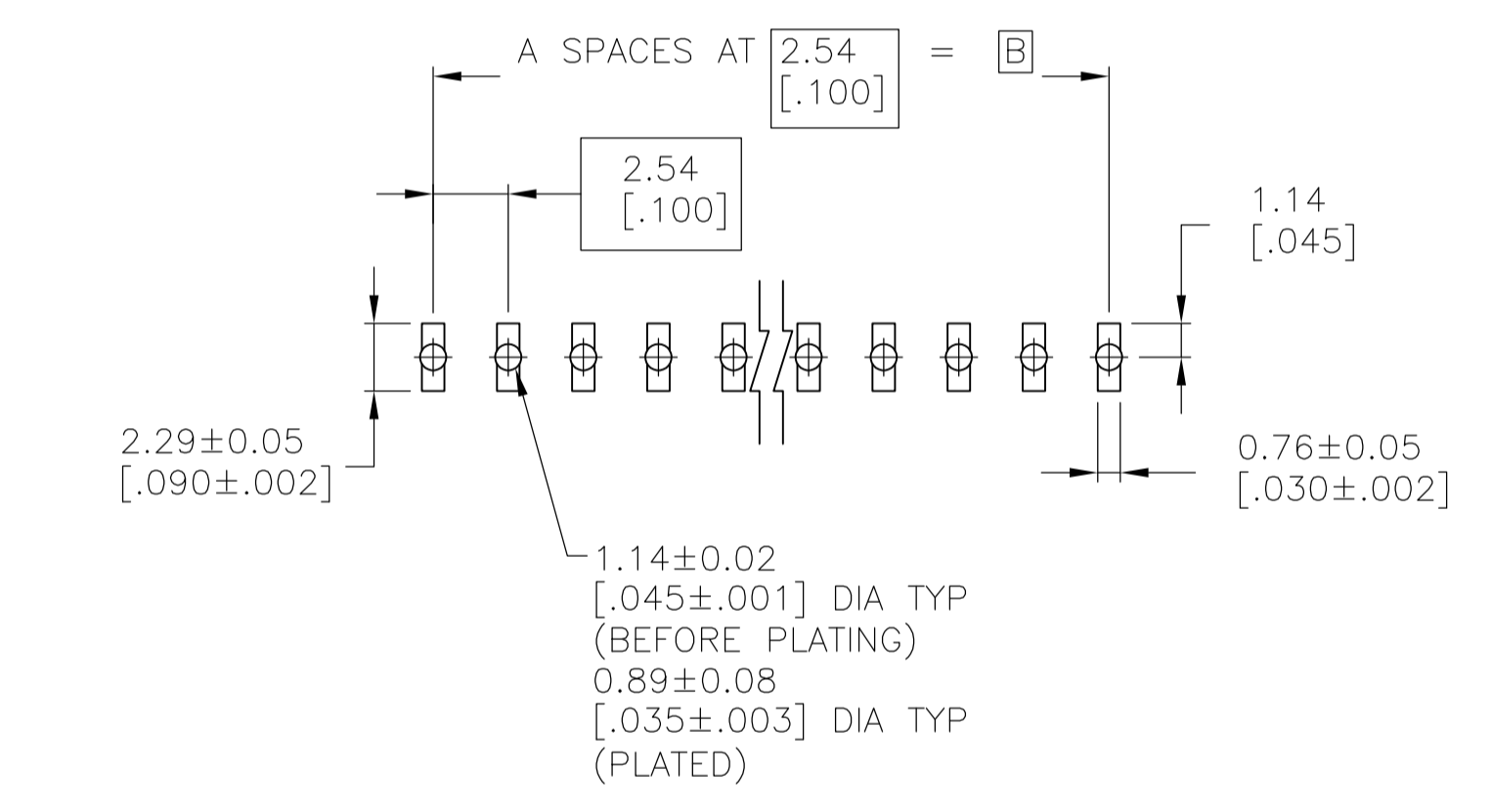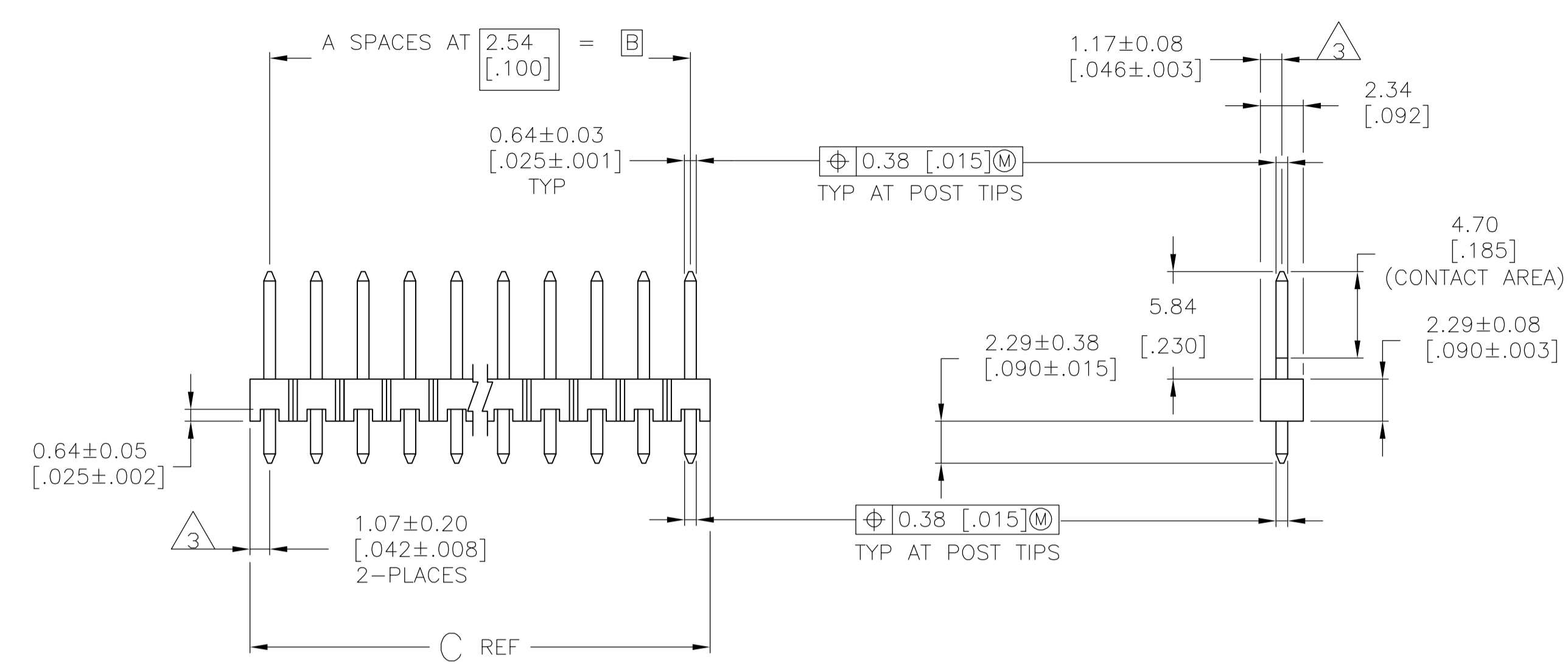
Conditions for Usage:
- High Temperature Housing = Yes

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

Other:
- Brand = AMP

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A SPACES AT 2.54 [.100] = B

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

0.64±0.05 [.025±.002]

1.07±0.20 [.042±.008] 2-PLACES

C REF

1.17±0.08 [.046±.003]
2.34 [.092]
4.70 [.185] (CONTACT AREA)
5.84 [.230]
2.29±0.38 [.090±.015]
2.29±0.08 [.090±.003]
⊕ 0.38 [.015] Ⓜ TYP AT POST TIPS

A SPACES AT 2.54 [.100] = B

2.54 [.100]
1.14 [.045]

2.29±0.05 [.090±.002]
0.76±0.05 [.030±.002]

1.14±0.02 [.045±.001] DIA TYP (BEFORE PLATING)
0.89±0.08 [.035±.003] DIA TYP (PLATED)

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

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 MATERIAL: HOUSING — LCP, COLOR: BLACK.
POSTS   — PHOSPHOR BRONZE

5 PLATING: 0.000762 [.000030] GOLD IN CONTACT AREA,
0.00254-0.00508 [.000100-.000200] MATTE TIN-LEAD
ON SOLDER TAIL,ALL OVER 0.00127 [.000050] NICKEL.

6 PLATING: 0.000762 [.000030] GOLD IN CONTACT AREA,
0.00254-0.00508 [.000100-.000200] MATTE TIN
ON SOLDER TAIL,ALL OVER 0.00127 [.000050] NICKEL.

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

OBSOLETE

PLATING 6	C	B	A	NO. OF POSITIONS	PART NUMBER
	101.19 [3.984]	99.06 [3.900]	39	40	9-146285-0
	98.65 [3.884]	96.52 [3.800]	38	39	8-146285-9
	96.11 [3.784]	93.98 [3.700]	37	38	8-146285-8
	93.57 [3.684]	91.44 [3.600]	36	37	8-146285-7
	91.03 [3.584]	88.90 [3.500]	35	36	8-146285-6
	88.49 [3.484]	86.36 [3.400]	34	35	8-146285-5
	85.95 [3.384]	83.82 [3.300]	33	34	8-146285-4
	83.41 [3.284]	81.28 [3.200]	32	33	8-146285-3
	80.87 [3.184]	78.74 [3.100]	31	32	8-146285-2
	78.33 [3.084]	76.20 [3.000]	30	31	8-146285-1
	75.79 [2.984]	73.66 [2.900]	29	30	8-146285-0
	73.25 [2.884]	71.12 [2.800]	28	29	7-146285-9
	70.71 [2.784]	68.58 [2.700]	27	28	7-146285-8
	68.17 [2.684]	66.04 [2.600]	26	27	7-146285-7
	65.63 [2.584]	63.5 [2.500]	25	26	7-146285-6
	63.09 [2.484]	60.96 [2.400]	24	25	7-146285-5
	60.55 [2.384]	58.42 [2.300]	23	24	7-146285-4
	58.01 [2.284]	55.88 [2.200]	22	23	7-146285-3
	55.47 [2.184]	53.34 [2.100]	21	22	7-146285-2
	52.93 [2.084]	50.80 [2.000]	20	21	7-146285-1
	50.39 [1.984]	48.26 [1.900]	19	20	7-146285-0
	47.85 [1.884]	45.72 [1.800]	18	19	6-146285-9
	45.31 [1.784]	43.18 [1.700]	17	18	6-146285-8
	42.77 [1.684]	40.64 [1.600]	16	17	6-146285-7
	40.23 [1.584]	38.10 [1.500]	15	16	6-146285-6
	37.69 [1.484]	35.56 [1.400]	14	15	6-146285-5
	35.15 [1.384]	33.02 [1.300]	13	14	6-146285-4
	32.61 [1.284]	30.48 [1.200]	12	13	6-146285-3
	30.07 [1.184]	27.94 [1.100]	11	12	6-146285-2
	27.53 [1.084]	25.40 [1.000]	10	11	6-146285-1
	24.99 [.984]	22.86 [.900]	9	10	6-146285-0
	22.45 [.884]	20.32 [.800]	8	9	5-146285-9
	19.91 [.784]	17.78 [.700]	7	8	5-146285-8
	17.37 [.684]	15.24 [.600]	6	7	5-146285-7
	14.83 [.584]	12.70 [.500]	5	6	5-146285-6
	12.29 [.484]	10.16 [.400]	4	5	5-146285-5
	9.75 [.384]	7.62 [.300]	3	4	5-146285-4
	7.21 [.284]	5.08 [.200]	2	3	5-146285-3
	4.67 [.184]	2.54 [.100]	1	2	5-146285-2
	2.13 [.084]	—	0	1	5-146285-1

7 OBSOLETE (right table, PLATING 5)

PLATING 5	C	B	A	NO. OF POSITIONS	PART NUMBER
	101.19 [3.984]	99.06 [3.900]	39	40	4-146285-0
	98.65 [3.884]	96.52 [3.800]	38	39	3-146285-9
	96.11 [3.784]	93.98 [3.700]	37	38	3-146285-8
	93.57 [3.684]	91.44 [3.600]	36	37	3-146285-7
	91.03 [3.584]	88.90 [3.500]	35	36	3-146285-6
	88.49 [3.484]	86.36 [3.400]	34	35	3-146285-5
	85.95 [3.384]	83.82 [3.300]	33	34	3-146285-4
	83.41 [3.284]	81.28 [3.200]	32	33	3-146285-3
	80.87 [3.184]	78.74 [3.100]	31	32	3-146285-2
	78.33 [3.084]	76.20 [3.000]	30	31	3-146285-1
	75.79 [2.984]	73.66 [2.900]	29	30	3-146285-0
	73.25 [2.884]	71.12 [2.800]	28	29	2-146285-9
	70.71 [2.784]	68.58 [2.700]	27	28	2-146285-8
	68.17 [2.684]	66.04 [2.600]	26	27	2-146285-7
	65.63 [2.584]	63.5 [2.500]	25	26	2-146285-6
	63.09 [2.484]	60.96 [2.400]	24	25	2-146285-5
	60.55 [2.384]	58.42 [2.300]	23	24	2-146285-4
	58.01 [2.284]	55.88 [2.200]	22	23	2-146285-3
	55.47 [2.184]	53.34 [2.100]	21	22	2-146285-2
	52.93 [2.084]	50.80 [2.000]	20	21	2-146285-1
	50.39 [1.984]	48.26 [1.900]	19	20	2-146285-0
	47.85 [1.884]	45.72 [1.800]	18	19	1-146285-9
	45.31 [1.784]	43.18 [1.700]	17	18	1-146285-8
	42.77 [1.684]	40.64 [1.600]	16	17	1-146285-7
	40.23 [1.584]	38.10 [1.500]	15	16	1-146285-6
	37.69 [1.484]	35.56 [1.400]	14	15	1-146285-5
	35.15 [1.384]	33.02 [1.300]	13	14	1-146285-4
	32.61 [1.284]	30.48 [1.200]	12	13	1-146285-3
	30.07 [1.184]	27.94 [1.100]	11	12	1-146285-2
	27.53 [1.084]	25.40 [1.000]	10	11	1-146285-1
	24.99 [.984]	22.86 [.900]	9	10	1-146285-0
	22.45 [.884]	20.32 [.800]	8	9	146285-9
	19.91 [.784]	17.78 [.700]	7	8	146285-8
	17.37 [.684]	15.24 [.600]	6	7	146285-7
	14.83 [.584]	12.70 [.500]	5	6	146285-6
	12.29 [.484]	10.16 [.400]	4	5	146285-5
	9.75 [.384]	7.62 [.300]	3	4	146285-4
	7.21 [.284]	5.08 [.200]	2	3	146285-3
	4.67 [.184]	2.54 [.100]	1	2	146285-2
	2.13 [.084]	—	0	1	146285-1

Right side notes (OBSOLETE column): OBS, SUP BY 8-146285-6, SUP BY 7-146285-0, SUP BY 6-146285-6, SUP BY 6-146285-3, SUP BY 5-146285-9, SUP BY 5-146285-6, SUP BY 5-146285-

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DWN HOFFMAN 6/12/95
CHK G. DUBNICZKI 3/18/96
APVD G. DUBNICZKI 3/18/96

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

MATERIAL
FINISH SEE TABLE

PRODUCT SPEC –
APPLICATION SPEC –
WEIGHT –

TE Connectivity

HEADER ASSEMBLY, MOD II, BREAKWAY,
SINGLE ROW, HIGH TEMPERATURE, VERTICAL
W/.025 SQ POSTS, .100 ℄

SIZE A1 CAGE CODE 00779 DRAWING NO C-146285
SCALE 1:1 SHEET 1 of 1 REV F2
CUSTOMER DRAWING

4805 (3/11)