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

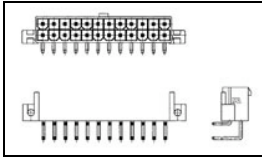# 1586043-4 Product Details

 Share   Print   Email

1586043-4

TE Internal Number: 1586043-4

✔ Active

 View 3D PDF

VAL-U-LOK Series Connector System

 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:
- Wire-to-Board
- Applies To Printed Circuit Board
- Connector
- Glow Wire Rating = Standard Part - Not Glow Wire
- Header

View all Features

Quick Links
- Pricing & Availability
- Search for Tooling
- View Mating Products (2)
- Product Feature Selector
- Contact Us About This Product

Add to My Part List   Request Sample   Find Similar Products   Buy Product

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Documentation & Additional Information

Product Drawings:
- RIGHT ANGLE HEADER, SCREW MOUNT VAL-U-LOK(TM) (PDF, English)

Catalog Pages/Data Sheets:
- SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG (PDF, English)

Product Specifications:
- VAL-U-LOK Connectors (PDF, English)

Application Specifications:
- VAL-U-LOK Series Headers and Connectors (PDF, English)

Instruction Sheets:
- None Available

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

Related Products:
- Tooling
- Mating Products (2)

List all Documents

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

Product Type Features:
- Product Type = Connector
- Connector Type = Header
- PCB Mounting Orientation = Right Angle
- PCB Mount Alignment = Without
- PCB Mount Retention = With
- PCB Mount Retention Type = Mounting Hole(s)
- Sealed = No
- UL File Number = E28476
- CSA File Number = 208567

Mechanical Attachment:
- Mating Retention Type = Latching

Electrical Characteristics:
- Contact Current Rating, Max. (A) = 9
- Operating Voltage Reference = AC
- Operating Voltage (VAC) = 600

Termination Features:
- Wire/Cable Size (AWG) = 16 – 26
- Wire/Cable Size (mm²) = 0.12 – 1.4
- Termination Method to PC Board = Through Hole - Solder

Dimensions:
- PCB Thickness, Recommended (mm [in]) = 1.60 [0.063]
- Tail Length (mm [in]) = 3.5 [0.138]
- Length (X-Axis) (mm [in]) = 9.60 [0.378]
- Width (Z-Axis) (mm [in]) = 13.00 [0.5118]
- Profile Height (Y-Axis) (mm [in]) = 9.80 [0.386]

Body Features:
- Header Type = Shrouded
- Mating Retention = With
- Selectively Loaded = No

Housing Features:
- Connector Style = Plug
- Centerline (mm [in]) = 4.20 [0.165]
- Mating Alignment = With
- Mating Alignment Type = Keyed
- Housing Color = Natural
- UL Flammability Rating = UL 94V-2

Configuration Features:
- Number of Positions = 4
- Number of Rows = 2
- Tail Orientation = In-line
- Shrouded = 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
- RoHS/ELV Compliance History = Always was RoHS compliant
- Agency/Standard = UL, CSA
- UL Rating = Recognized

Identification Marking:
- Circuit Identification Feature = With

Environmental:
- Operating Temperature (°C [°F]) = -40 – +105 [-40 – +221]

Conditions for Usage:
- Applies To = Printed Circuit Board
- Glow Wire Rating = Standard Part - Not Glow Wire

Operation/Application:
- Application Use = Wire-to-Board
- Contact Transmits (Typical Application) = Signal (Data)
- Pick and Place Cover = Without

Contact Features:
- Contact Type = Pin
- Contact Base Material = Brass
- Contact Plating, Mating Area, Material = Tin
- Contact Plating, Mating Area, Thickness (μm [μin]) = 2.54 [100]
- Contact Plating, Termination Area, Material = Tin
- Contact Plating, Termination Area, Thickness (μm [μin]) = 2.54 [100]
- Contact Design = Square Post

Packaging Features:
- Packaging Method = Tray
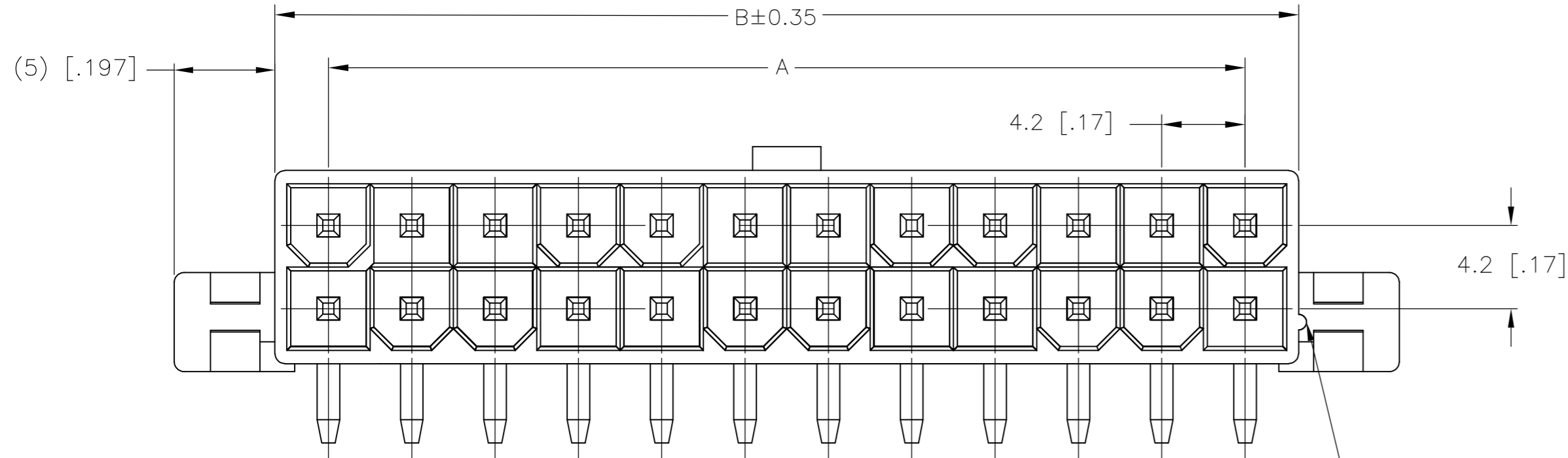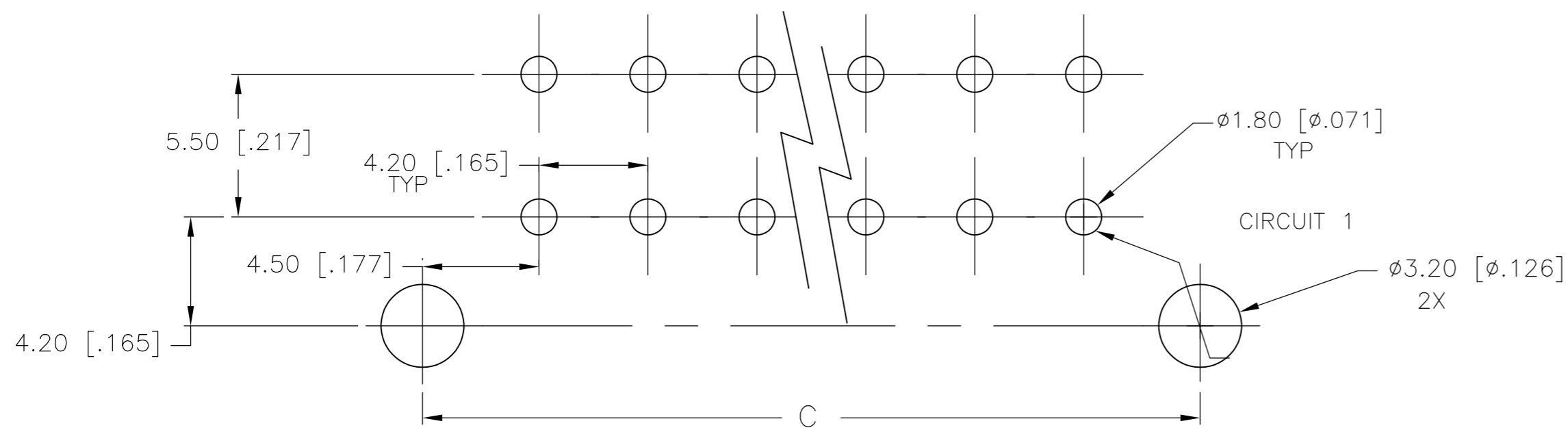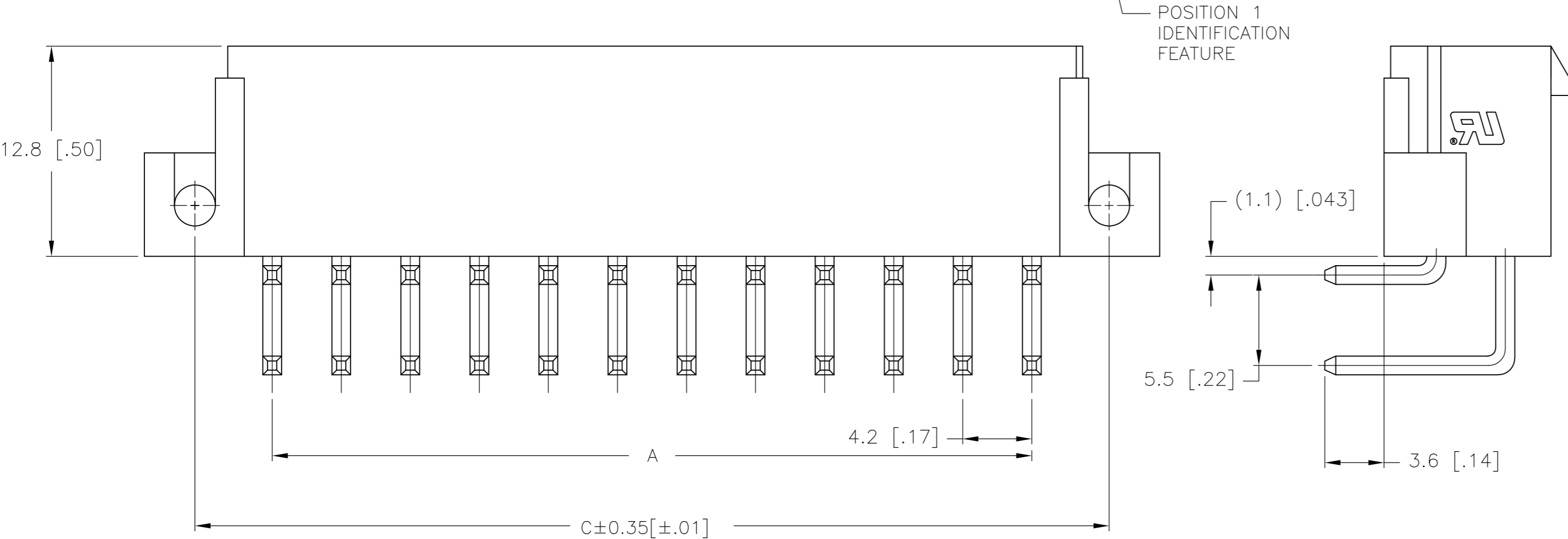
Other:
- Brand = AMP

LOC	DIST			REVISIONS			
CM	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
			B3	REVISED PER ECO-12-014449	28AUG12	KH	SM

B±0.35
A
(5) [.197]
4.2 [.17]
4.2 [.17]

POSITION 1
IDENTIFICATION
FEATURE

1 MATERIAL: HOUSING-NYLON, UL94V-2
(COLOR-NATURAL, COLOR OF PARTS MAY VARY)
CONTACTS-0.25 [.010] THICK BRASS ALLOY.

2 CONTACT FINISH: 0.002032 [.000080] MIN MATTE TIN
OVER 0.000381 [.000015] MIN NICKEL OVER ENTIRE
CONTACT.

3 MATES WITH VAL-U-LOK(TM) RECEPTACLE HOUSINGS.

12.8 [.50]

(1.1) [.043]

5.5 [.22]

3.6 [.14]

A

4.2 [.17]

C±0.35[±.01]

1586043

PCB LAYOUT: COMPONENT SIDE
RECOMMENDED BOARD THICKNESS 1.60 [.063]

5.50 [.217]
4.20 [.165] TYP
4.50 [.177]
4.20 [.165]

Ø1.80 [Ø.071] TYP
CIRCUIT 1
Ø3.20 [Ø.126] 2X

2-1586043-4 SHOWN

C

POS	A	B±0.35[±.01]	C±0.35[±.01]	PART NUMBER
2		5.4 [.21]	9.0 [.35]	1586043-2
4	4.2±0.1 [.17±.00]	9.6 [.38]	13.2 [.52]	1586043-4
6	8.4±0.1 [.33±.00]	13.8 [.54]	17.4 [.69]	1586043-6
8	12.6±0.1 [.50±.00]	18.0 [.71]	21.6 [.85]	1586043-8
10	16.8±0.1 [.66±.00]	22.2 [.87]	25.8 [1.02]	1-1586043-0
12	21.0±0.2 [.83±.01]	26.4 [1.04]	30.0 [1.18]	1-1586043-2
14	25.2±0.2 [.99±.01]	30.6 [1.21]	34.2 [1.35]	1-1586043-4
16	29.4±0.2 [1.16±.01]	34.8 [1.37]	38.4 [1.51]	1-1586043-6
18	33.6±0.2 [1.32±.01]	39.0 [1.54]	42.6 [1.68]	1-1586043-8
20	37.8±0.2 [1.49±.01]	43.2 [1.70]	46.8 [1.84]	2-1586043-0
22	42.0±0.2 [1.65±.01]	47.4 [1.87]	51.0 [2.01]	2-1586043-2
24	46.2±0.2 [1.82±.01]	51.6 [2.03]	55.2 [2.17]	2-1586043-4

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN	S. HOOVER	18-SEP-2002	
CHK	D. COLEY	18-SEP-2002	
APVD	D. COLEY	18-SEP-2002	

DIMENSIONS:
mm [INCHES]

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC   ±
1 PLC   ± 0.5 [.02]
2 PLC   ± 0.25 [.010]
3 PLC   ± 0.150 [0059]
4 PLC   ± –
ANGLES ± –

MATERIAL 1   FINISH 2

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

TE   TE Connectivity

NAME
RIGHT ANGLE HEADER,
SCREW MOUNT
VAL-U-LOK(TM)

SIZE	CAGE CODE	DRAWING NO		RESTRICTED TO
A2	00779	C-1586043		–

CUSTOMER DRAWING

SCALE

SHEET 1 of 1

REV B3