

## 1761028-3 Product Details



**1761028-3**

TE Internal Number: 1761028-3



### .050 Series Board Mount Connectors

 Always EU RoHS/ELV Compliant (Statement of Compliance)

#### Product Highlights:

- Connector
- Connector Style = Receptacle
- 50 Positions
- PCB Mounting Orientation = Right Angle
- Termination Method to PC Board = Through Hole - Solder

### Documentation & Additional Information

#### Product Drawings:

- [RECEPTACLE ASSEMBLY, SHIELDED, RIGHT ANG...](#) (PDF, English)

#### Catalog Pages/Data Sheets:

- [AMPLIMITE Subminiature D Connectors - .050 Series Co...](#) (PDF, English)

#### Product Specifications:

- None Available

#### 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 \(8\)](#)
- [Hardware \(5\)](#)

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

#### Product Type Features:

- [Product Type](#) = Connector
- PCB Mounting Orientation = Right Angle
- Termination Method to PC Board = Through Hole - Solder
- PCB Mount Retention = With
- PCB Mount Retention Type = Boardlock(s)
- [PCB Mount Alignment](#) = Without
- [Shell Type](#) = Full Metal
- [Product Series](#) = Series III
- Shell Material = Steel

#### Mechanical Attachment:

- Mating Retention Type = Latching
- Boardlock Material = Copper Alloy
- Boardlock Plating = Tin over Nickel

#### Electrical Characteristics:

- [Shielded](#) = Yes

#### Termination Features:

- [Termination Post Length \(mm \[in\]\)](#) = 2.54 [0.100]

#### Body Features:

- Mating Retention = With
- Post Plating = Tin over Nickel
- Shell Plating = Bright Tin

#### Contact Features:

- [Contact Plating, Mating Area, Material](#) = Gold (30), Gold Flash over Palladium Nickel

#### Housing Features:

- Connector Style = Receptacle
- Mating Alignment = With
- Centerline (mm [in]) = 1.27 [0.050]
- Mating Alignment Type = Rails
- Housing Material = Thermoplastic - GF
- UL Flammability Rating = UL 94V-0
- Housing Color = Black

#### Configuration Features:

- [Number of Positions](#) = 50

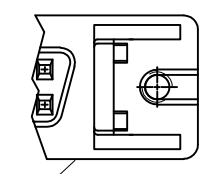
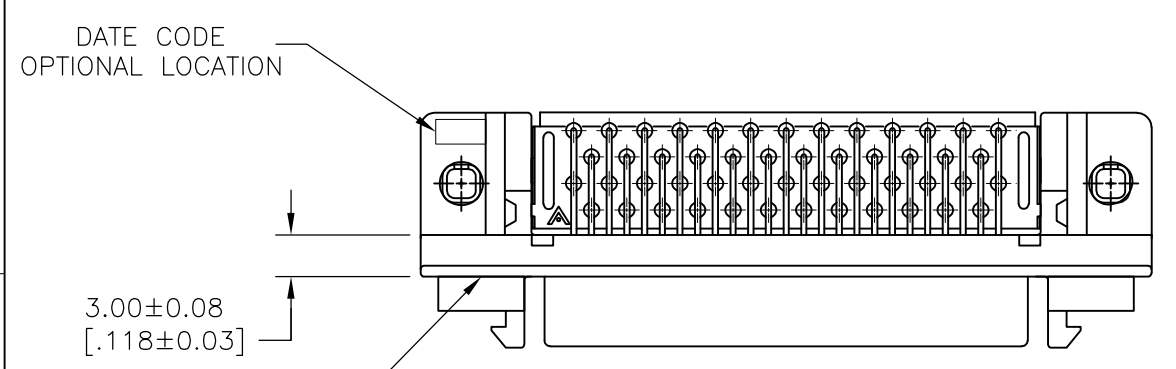
#### Industry Standards:

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

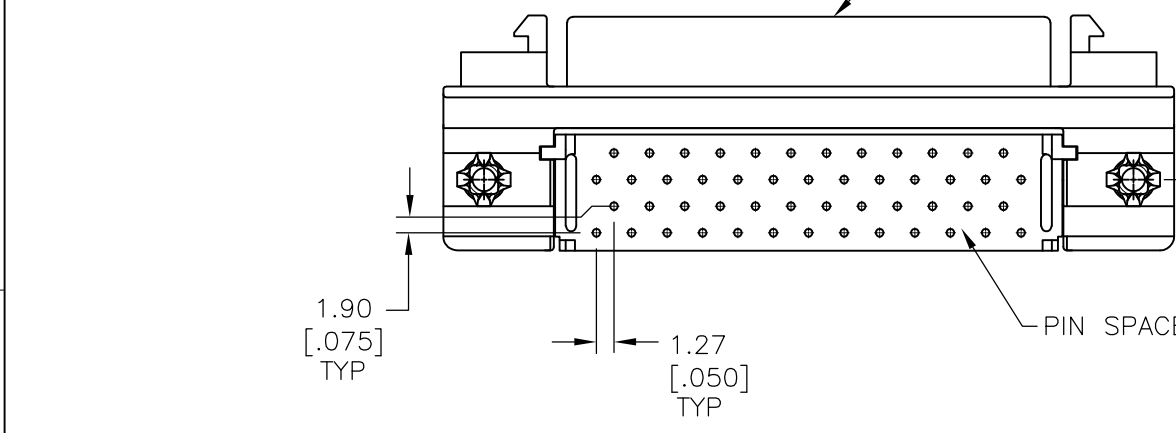
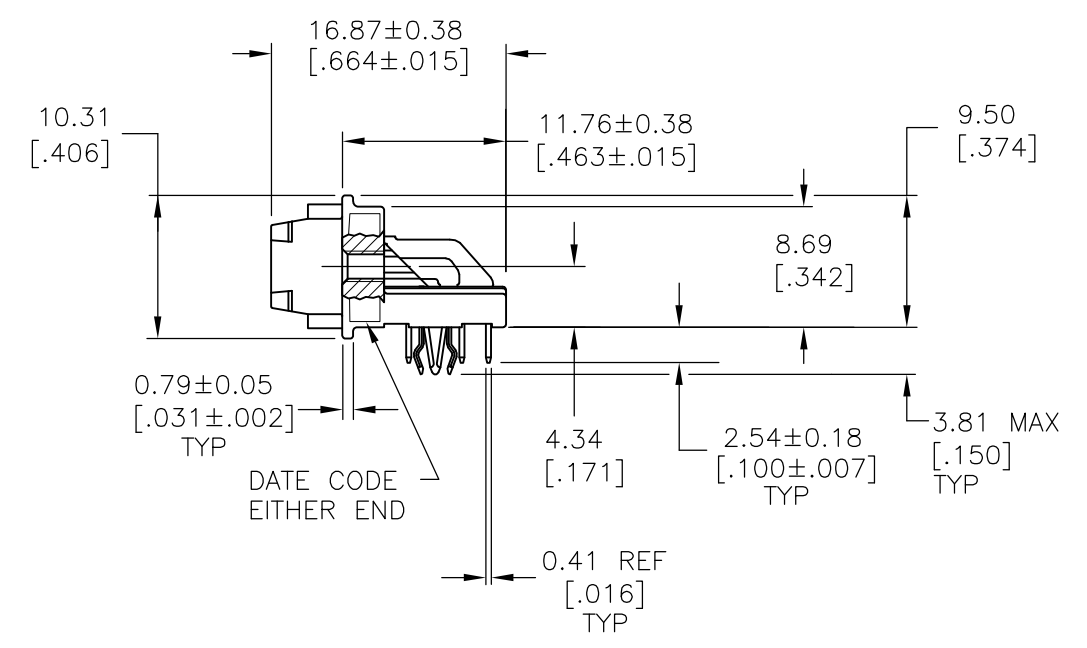
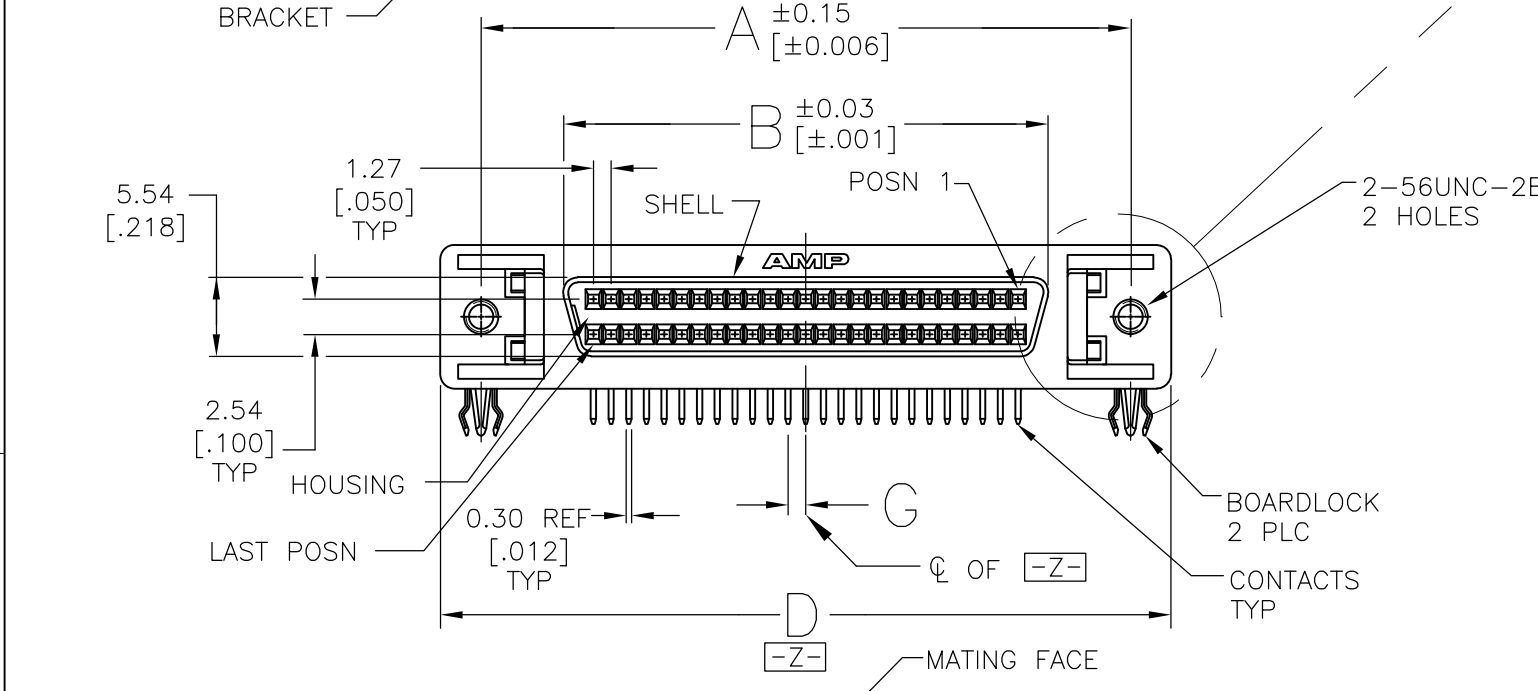
#### Other:

- Brand = AMP

LOC	DIST	REVISIONS					
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		D		REVISED PER ECO-11-008091	18APR2011	CJV	SLB



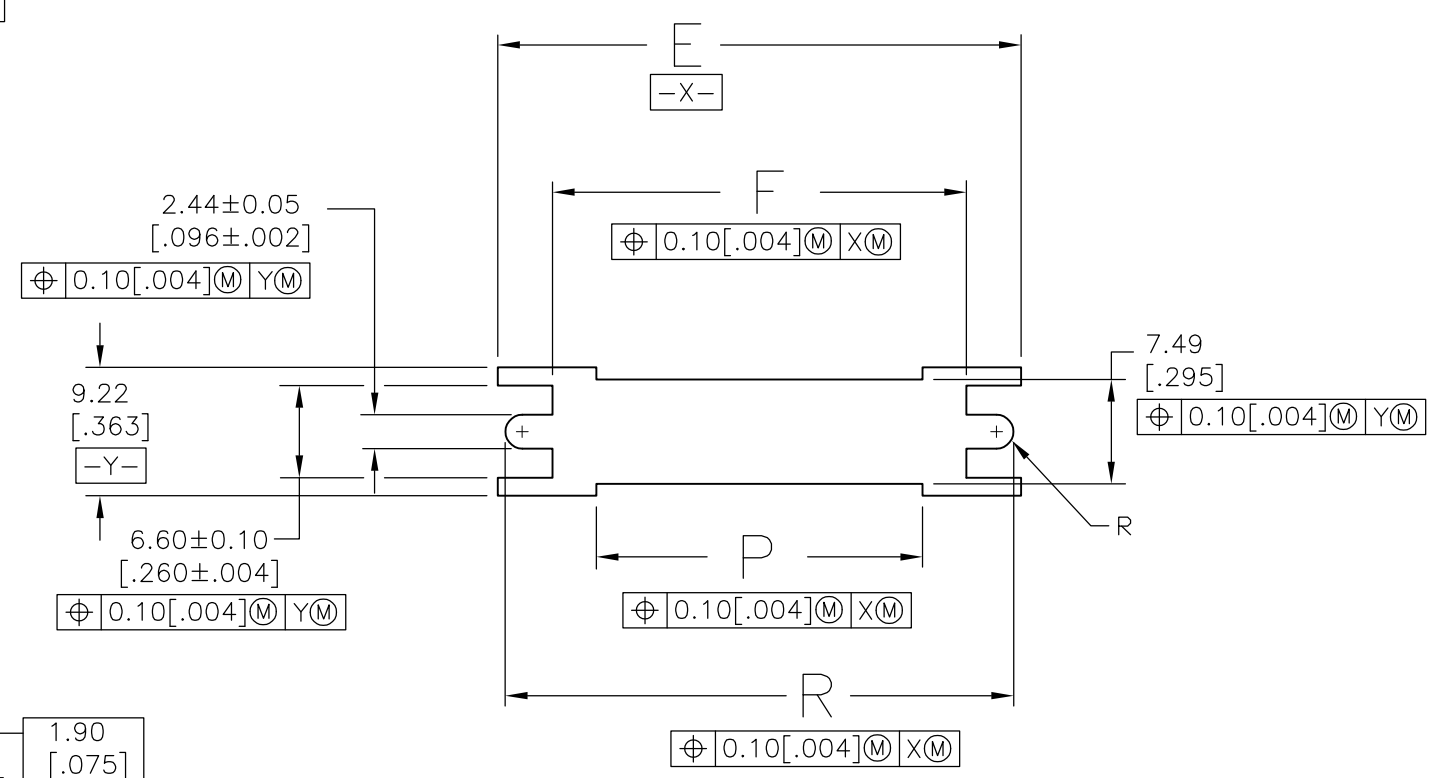
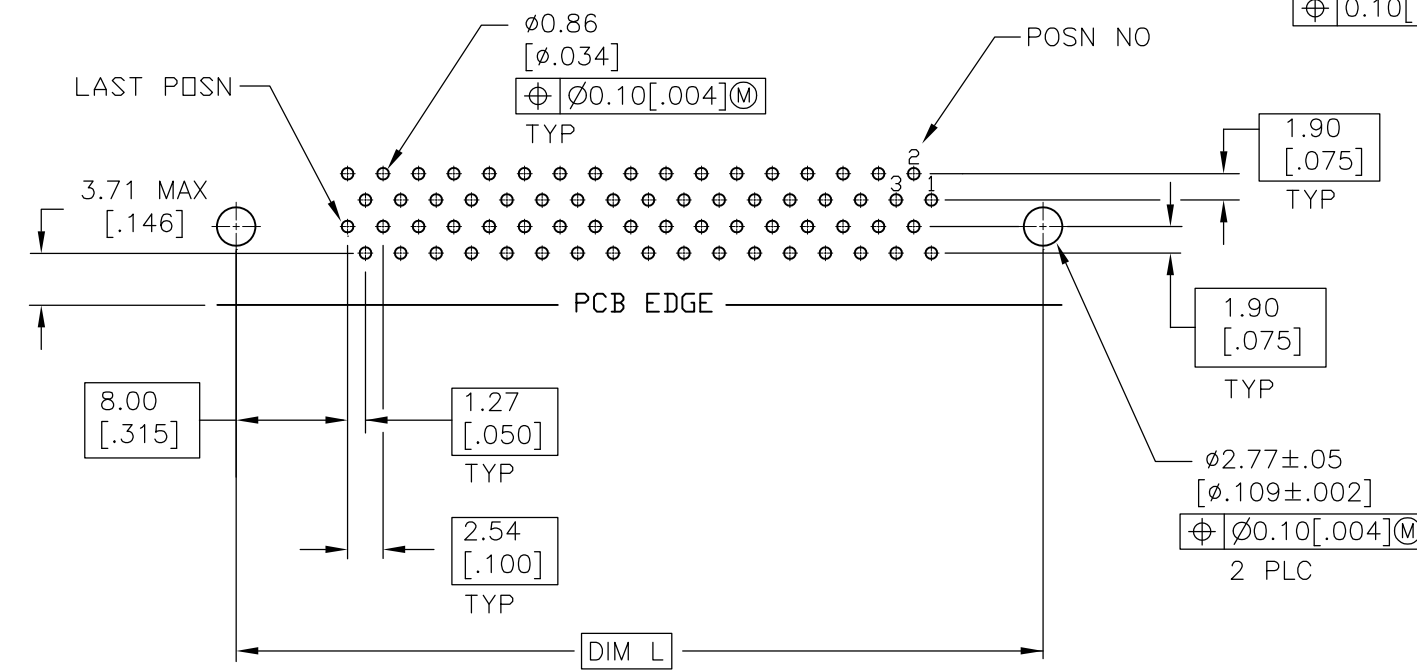
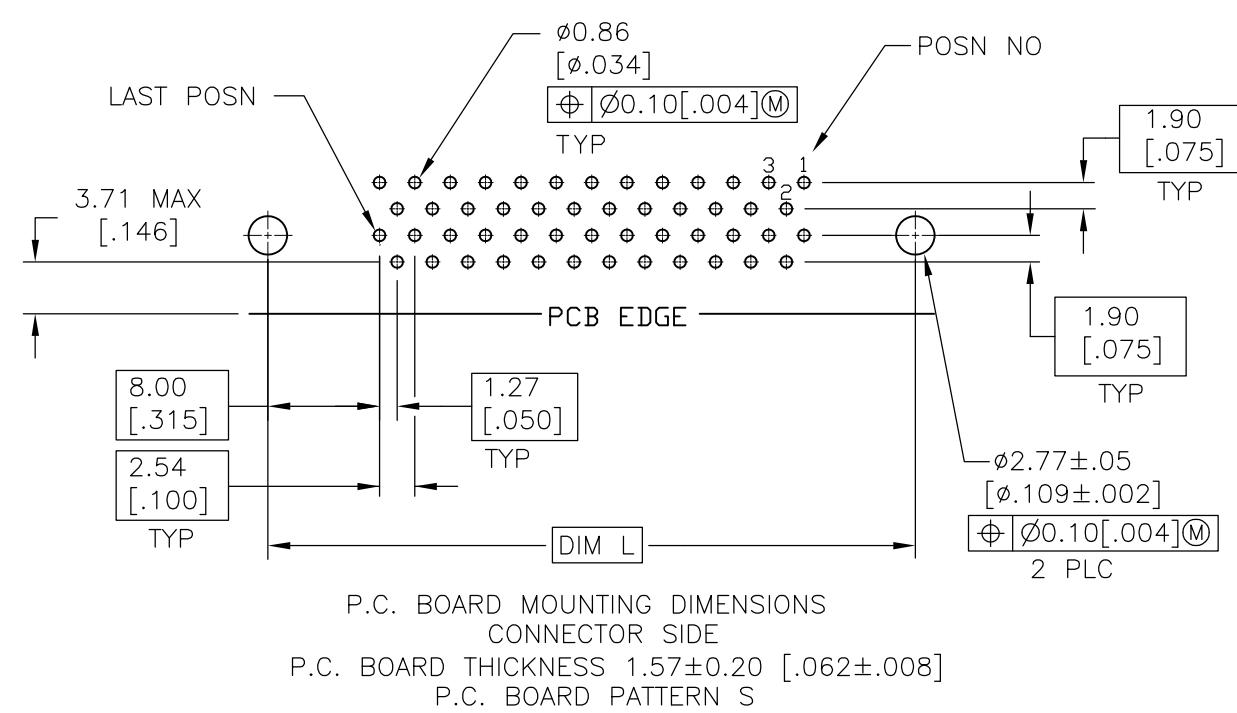
ALTERNATE BRACKET  
DESIGN  
TYP.



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN	28JAN2004		TE Connectivity NAME RECEPTACLE ASSEMBLY, SHIELDED, RIGHT ANGLE, RAILED, .050 SERIES, AMPLIMITE							
DIMENSIONS: mm [INCHES]		CHK	28JAN04									
		APVD	28JAN04									
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	108-1228									
0 PLC ± - 1 PLC ± - 2 PLC ± 0.13[.005] 3 PLC ± - 4 PLC ± - ANGLES ± -		APPLICATION SPEC	114-40029		SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO				
MATERIAL	1	FINISH	2	WEIGHT	A3 00779		C-1761028	-				
CUSTOMER DRAWING							SCALE	2:1	SHEET	1 of 3	REV	D

LOC		DIST		REVISIONS					
GP		00		P	LTR	DESCRIPTION	DATE	DWN	APVD
				-		SEE SHEET 1	-	-	-

D  
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A



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN B. MCMASTER	28JAN2004		
		CHK S. SHUEY	28JAN04		
		APVD M. WALMSLEY	28JAN04	NAME	
		PRODUCT SPEC		RECEPTACLE ASSEMBLY, SHIELDED, RIGHT ANGLE, RAILED, .050 SERIES, AMPLIMITE	
		APPLICATION SPEC		SIZE	RESTRICTED TO
		WEIGHT		A3	-
		CUSTOMER DRAWING		CAGE CODE	DRAWING NO
				00779	C-1761028
				SCALE	SHEET
				2:1	2 of 3
				REV	D

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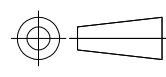
LOC	DIST	REVISIONS					
GP	00	P	LTR	DESCRIPTION	DATE	DWN	APVD
		-		SEE SHEET 1	-	-	-

1 CONTACTS: PHOSPHOR BRONZE.  
 HOUSING & PIN-SPACER: UL 94V-0 RATED, THERMOPLASTIC, BLACK.  
 BRACKET: ZINC.  
 SHELL: CARBON STEEL.  
 BOARDLOCKS: COPPER ALLOY.

2 CONTACTS: EITHER 0.00076 [.000030] MIN GOLD PLATE ON MATING END OR GOLD FLASH OVER PALLADIUM NICKEL PLATE, 0.00076 [.000030] MIN TOTAL ON MATING END, 0.00381 [.000150] MIN TIN ON SOLDER END, ALL OVER 0.00127 [.000050] MIN NICKEL ON ENTIRE CONTACT.  
 SHELL: 0.00508 [.000200] MIN NICKEL OVER 0.00127 [.000050] MIN COPPER.  
 BRACKET: 0.00254 [.000100] MIN NICKEL OVER 0.00508 [.000200] COPPER.  
 BOARDLOCKS: 0.00300 [.000118] MIN TIN OVER 0.00127 [.000050] MIN NICKEL.

TUBE	T	29.87 [1.176]	17.37 [.684]	27.43 [1.080]	0.64 [.025]	23.75 [.935]	31.50 [1.240]	33.40 [1.315]	15.65 [.616]	27.43 [1.080]	20	1761028-6
TUBE	T	80.67 [3.176]	68.17 [2.684]	78.23 [3.080]	0.64 [.025]	74.55 [2.935]	82.30 [3.240]	84.20 [3.315]	66.45 [2.616]	78.23 [3.080]	100	1761028-5
TUBE	T	60.35 [2.376]	47.85 [1.884]	57.91 [2.280]	0.64 [.025]	54.23 [2.135]	61.98 [2.440]	63.88 [2.515]	46.13 [1.816]	57.91 [2.280]	68	1761028-4
TUBE	S	48.92 [1.926]	36.42 [1.434]	46.48 [1.834]	1.27 [.050]	42.80 [1.685]	50.55 [1.990]	52.45 [2.065]	34.70 [1.366]	46.48 [1.830]	50	1761028-3
TUBE	T	42.57 [1.676]	30.07 [1.184]	40.13 [1.580]	0.64 [.025]	36.45 [1.435]	44.20 [1.740]	46.10 [1.815]	28.35 [1.116]	40.13 [1.580]	40	1761028-2
TUBE	S	33.68 [1.326]	21.18 [.834]	31.24 [1.230]	1.27 [.050]	27.56 [1.085]	35.31 [1.390]	37.21 [1.465]	19.46 [.766]	31.24 [1.230]	26	1761028-1
PACKAGING	PC BOARD PATTERN	R	P	L	G	F	E	D	B	A	NO OF POS	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm [INCHES]	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± - 1 PLC ± - 2 PLC ± 0.13[.005] 3 PLC ± - 4 PLC ± - ANGLES ± -	DWN B. MCMASTER 28JAN2004 CHK S. SHUEY 28JAN04 APVD M. WALMSLEY 28JAN04	 TE Connectivity	
		PRODUCT SPEC 108-1228	NAME RECEPTACLE ASSEMBLY, SHIELDED, RIGHT ANGLE, RAILED, .050 SERIES, AMPLIMITE	
MATERIAL	FINISH	APPLICATION SPEC 114-40029	SIZE A3	CAGE CODE 00779
1	2	WEIGHT -	DRAWING NO C-1761028	RESTRICTED TO -
CUSTOMER DRAWING			SCALE 2:1	SHEET 3 of 3
			REV D	