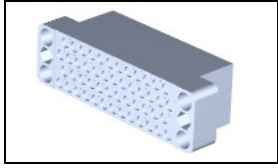# 200277-2 Product Details

200277-2

TE Internal Number: 200277-2

✔ Active

M Series Connectors

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

Product Highlights:
- Product Series = M Series
- Connector
- Cable-to-Cable / Cable-to-Panel
- Applies To Panel, Applies To Wire/Cable
- Housing

Documentation & Additional Information	
Product Drawings: • BLOCK, FEMALE, 50 POS, MINIATURE RECTANGULAR, M SERIES (PDF, English) **Catalog Pages/Data Sheets:** • M_SERIES_PIN_AND_SOCKET_CONNECTORS (PDF, English) **Product Specifications:** • None Available **Application Specifications:** • None Available **Instruction Sheets:** • AMP* 20 HVC, 34 AND 50 POSITION SERIES ''M'' CONNECTOR (PDF, English) • LATCHING SHIELD AND PIN HOOD FOR 50 POSITION ''M'' S... (PDF, English) **CAD Files:** (CAD Format & Compression Information) • 2D Drawing (DXF, Version AN) • 3D Model (IGES, Version AN) • 3D Model (STEP, Version AN)	**Additional Information:** • Product Line Information **Related Products:** • Tooling

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

Product Type Features:
- Product Series = M Series
- Product Type = Connector
- Connector Type = Housing
- Strain Relief = Without
- Sealed = No

Mechanical Attachment:
- Panel Mount Retention = With
- Panel Mount Retention Type = Screw Mount

Dimensions:
- Length (X-Axis) (mm [in]) = 23.24 [0.915]
- Width (Z-Axis) (mm [in]) = 19.05 [0.750]
- Profile Height (Y-Axis) (mm [in]) = 65.86 [2.593]

Body Features:
- Mating Retention = Without

Contact Features:
- Contact Type = Socket

Housing Features:
- Connector Style = Receptacle
- Centerline (mm [in]) = 4.57 [0.180]
- Housing Material = Phenolic - GF
- Housing Color = Black
- Mating Alignment = With
- Mating Alignment Type = Guide Hole
- UL Flammability Rating = UL 94V-0

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

Environmental:
- Operating Temperature (°C [°F]) = -55 – +150 [-67 – +302]

Conditions for Usage:
- Applies To = Panel, Wire/Cable
- For Use With = Pin Housing

Operation/Application:
- Application Use = Cable-to-Cable / Cable-to-Panel
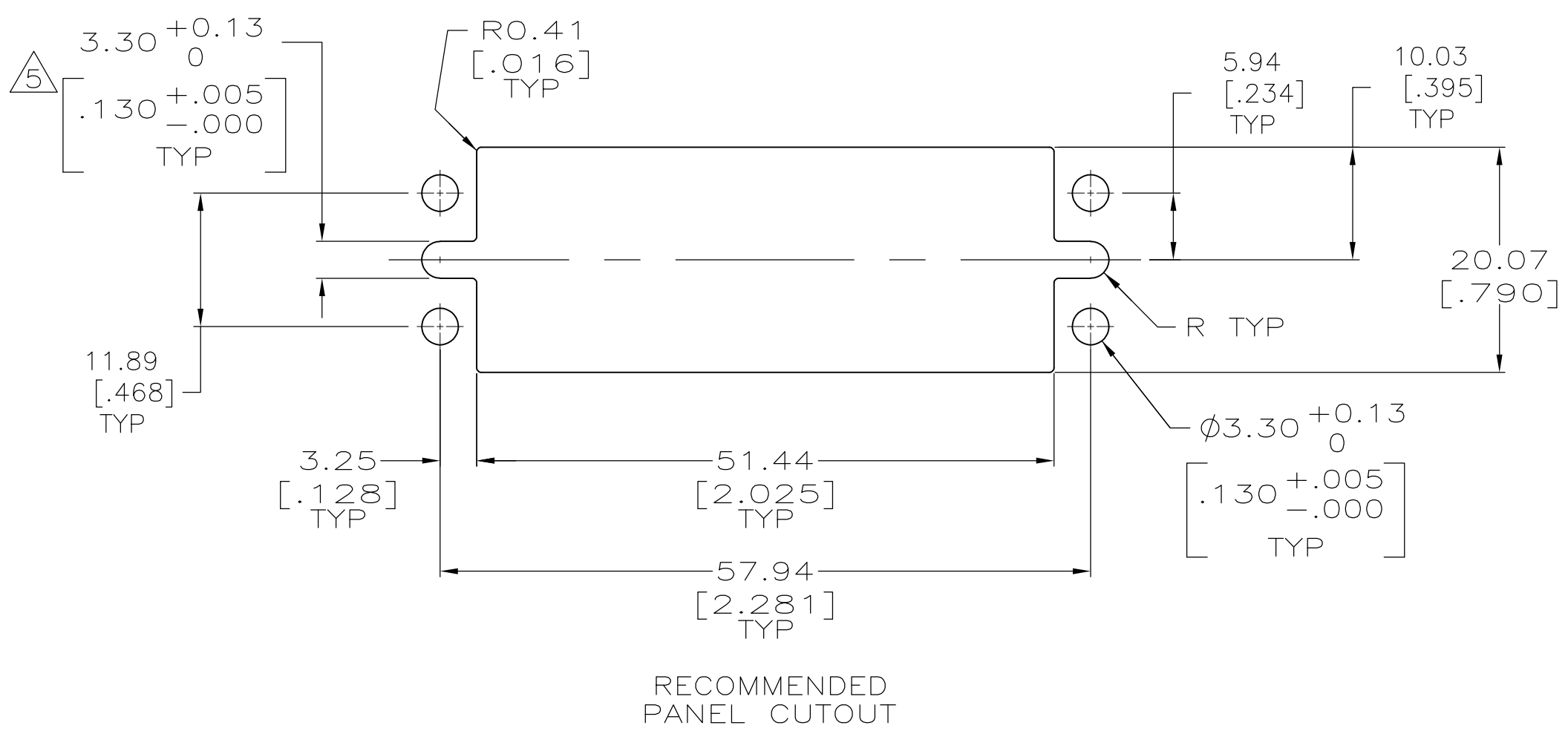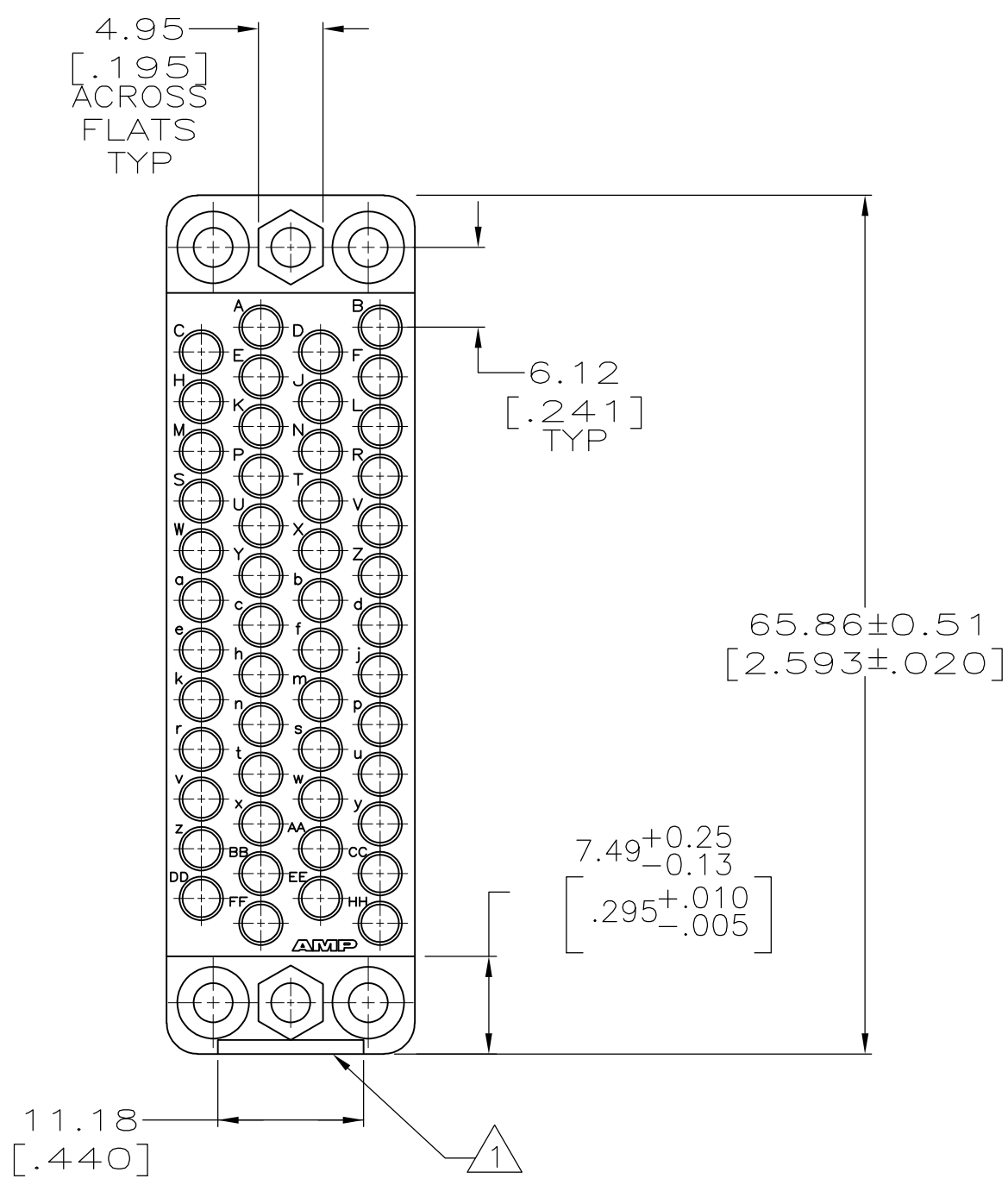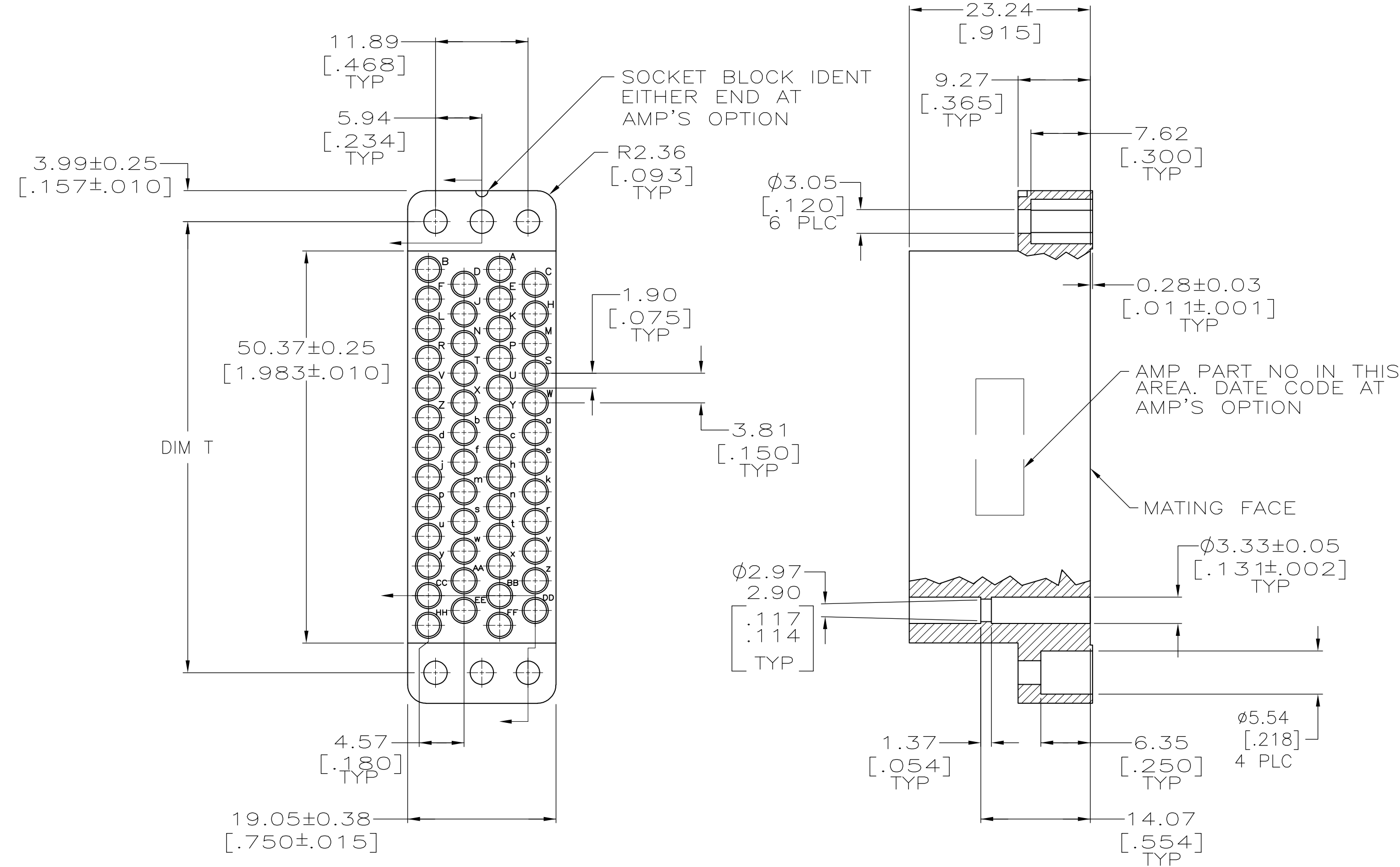
Packaging Features:
- Packaging Method = Carton
- Packaging Quantity = 70

Other:
- Brand = AMP
- Comment = Pins and/or sockets may be used in any housing.; Housing cavity identification are mirror image.; Housing accepts type II, type III+ and Subminiature Coaxicon contacts.

LOC	DIST	REVISIONS				
FT	0	P	LTR	DESCRIPTION	DATE	DWN	APVD
			AN1	REVISED PER ECO-07-028849	12/6/07	SS	GS

11.89 [.468] TYP

5.94 [.234] TYP

SOCKET BLOCK IDENT EITHER END AT AMP'S OPTION

R2.36 [.093] TYP

3.99±0.25 [.157±.010]

50.37±0.25 [1.983±.010]

DIM T

1.90 [.075] TYP

3.81 [.150] TYP

4.57 [.180] TYP

19.05±0.38 [.750±.015]

23.24 [.915]

9.27 [.365] TYP

7.62 [.300] TYP

Ø3.05 [.120] 6 PLC

0.28±0.03 [.011±.001] TYP

AMP PART NO IN THIS AREA. DATE CODE AT AMP'S OPTION

MATING FACE

Ø2.97 2.90 [.117 .114] TYP

Ø3.33±0.05 [.131±.002] TYP

1.37 [.054] TYP

6.35 [.250] TYP

Ø5.54 [.218] 4 PLC

14.07 [.554] TYP

4.95 [.195] ACROSS FLATS TYP

6.12 [.241] TYP

65.86±0.51 [2.593±.020]

7.49 +0.25 -0.13 [.295 +.010 -.005]

11.18 [.440]

AMP

1

RECOMMENDED PANEL CUTOUT

3.30 +0.13 0 [.130 +.005 -.000] TYP

R0.41 [.016] TYP

5.94 [.234] TYP

10.03 [.395] TYP

20.07 [.790]

R TYP

11.89 [.468] TYP

3.25 [.128] TYP

51.44 [2.025] TYP

57.94 [2.281] TYP

Ø3.30 +0.13 0 [.130 +.005 -.000] TYP

1. DEPRESSION OPTIONAL AT EITHER END.

2. PHENOLIC PER MIL-M-14, TYPE CFG, BLACK.

3. DIALLYL PHTHALATE PER MIL-M-14, TYPE SDG-F, BLUE.

4. WHEN MATING WITH BLOCK 201358 ACCOMODATES TYPE II OR TYPE III+ #16 PIN OR SOCKET CONTACTS.

5. 5.54 +0.13 -0.00 [.218 +.005 -.000] WHEN USING JACKSCREWS.

DIM T		MATERIAL	PART NUMBER
2.281 +.015 -.000	3		200277-4
2.281 +.005 -.003	2		200277-2

DWN	B.CARBO	11 AUG 97
CHK	R.STONE	18 AUG 97
APVD	G.STEINHAUER	05 SEP 97

DIMENSIONS:
mm [INCHES]

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

MATERIAL: SEE TABLE
FINISH: –

PRODUCT SPEC –
APPLICATION SPEC –
WEIGHT –

≡ Tyco Electronics
Tyco Electronics Corporation
Harrisburg, PA 17105-3608

NAME
BLOCK, FEMALE, 50 POS, MINIATURE RECTANGULAR, M SERIES

SIZE	CAGE CODE	DRAWING NO		RESTRICTED TO
A2	00779	C-200277		–

CUSTOMER DRAWING

SCALE 2:1   SHEET 1 of 1   REV AN1

200277