



**Have a Question?**  
 Chat with a Product Information Specialist

What can we help you find?

[Products](#) [Industries](#) [Resources](#) [About TE](#) [My Account](#) [Innovation](#) [Support Center](#)

## 5745187-1 Product Details

[Share](#) [Print](#) [Email](#)



**5745187-1**

TE Internal Number: 5745187-1

Active

[View 3D PDF](#)

### Standard Board Mount Connectors

Always EU RoHS/ELV Compliant (Statement of Compliance)

#### Product Highlights:

- 25 Positions
- Connector Style = Receptacle
- PCB Mounting Orientation = Vertical
- Product Series = HD 20
- Without Mating Connector Lock

[View all Features](#)

### Quick Links

- ▶ [Pricing & Availability](#)
- ▶ [Search for Tooling](#)
- ▶ [View Mating Products \(9\)](#)
- ▶ [Product Feature Selector](#)
- ▶ [Contact Us About This Product](#)

[Add to My Part List](#) [Request Sample](#) [Find Similar Products](#) [Buy Product](#)

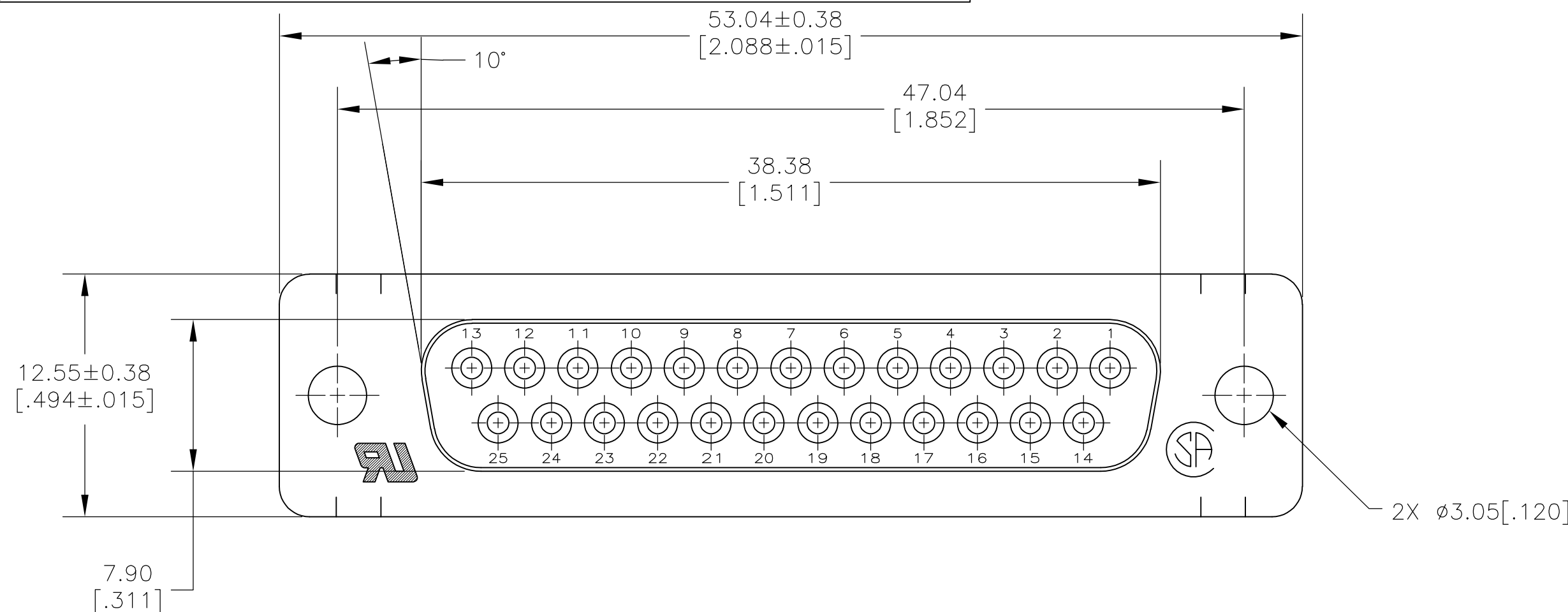
Documentation & Additional Information	
<p><b>Product Drawings:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">RECEPTACLE ASSEMBLY, SIZE 3, 25 POSITION, VERTICAL, ... (PDF, English)</a></li> </ul> <p><b>Catalog Pages/Data Sheets:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">AMPLIMITE Subminiature D Connectors - Straight Poste... (PDF, English)</a></li> </ul> <p><b>Product Specifications:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">AMPLIMITE HD-20 PCB Mounted Connector (PDF, English)</a></li> </ul> <p><b>Application Specifications:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">AMPLIMITE HD-20 Straight Solder Contact Tine, Front ... (PDF, English)</a></li> </ul> <p><b>Instruction Sheets:</b></p> <ul style="list-style-type: none"> <li>• None Available</li> </ul> <p><b>CAD Files:</b> (<a href="#">CAD Format &amp; Compression Information</a>)</p> <ul style="list-style-type: none"> <li>• <a href="#">2D Drawing (DXF, Version B)</a></li> <li>• <a href="#">3D Model (IGES, Version B)</a></li> <li>• <a href="#">3D Model (STEP, Version B)</a></li> </ul>	<p><b>Additional Information:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Product Line Information</a></li> </ul> <p><b>Additional Product Images:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Product Photo</a></li> </ul> <p><b>Related Products:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Tooling</a></li> <li>• <a href="#">Mating Products (9)</a></li> </ul>

[List all Documents](#)

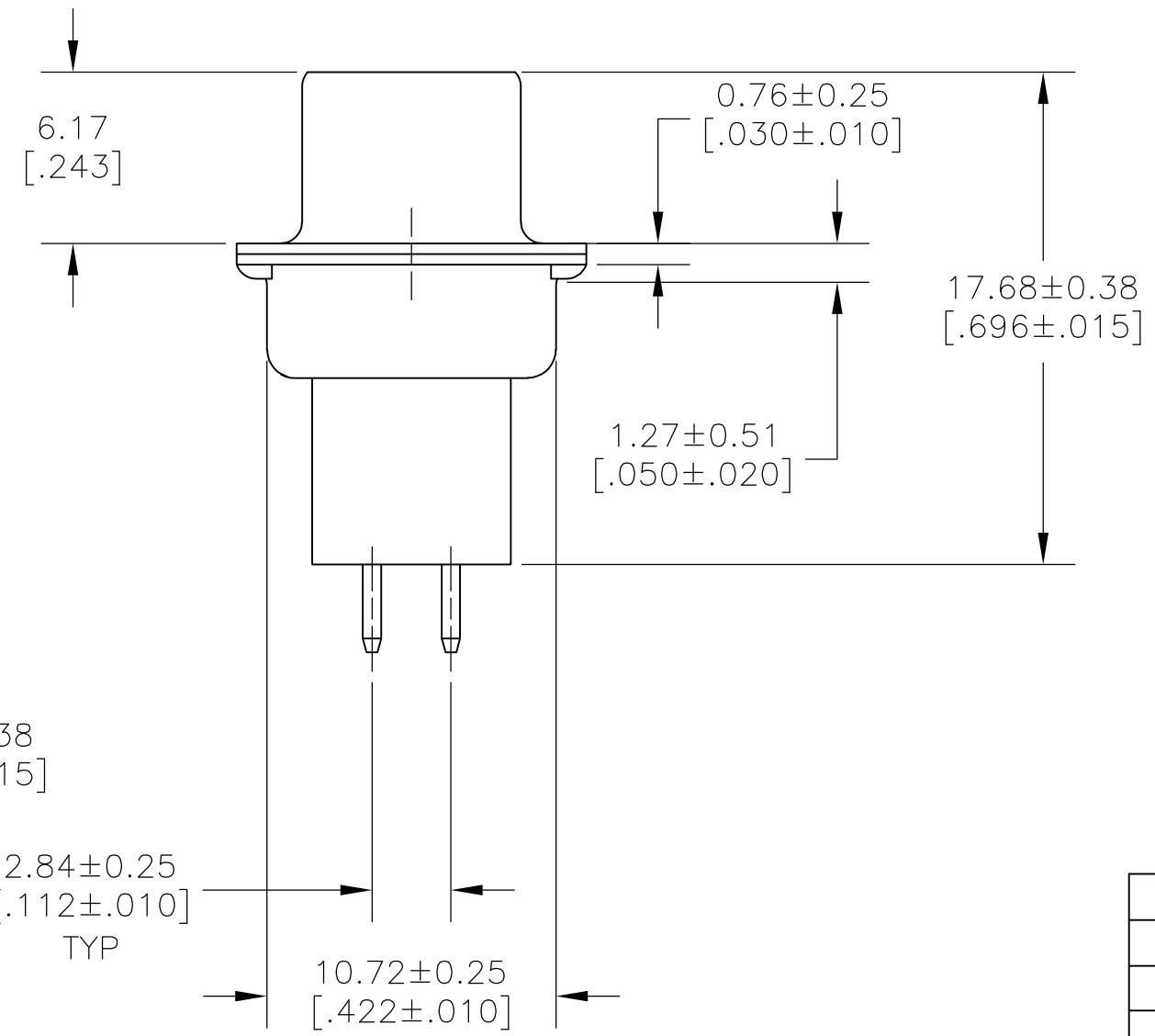
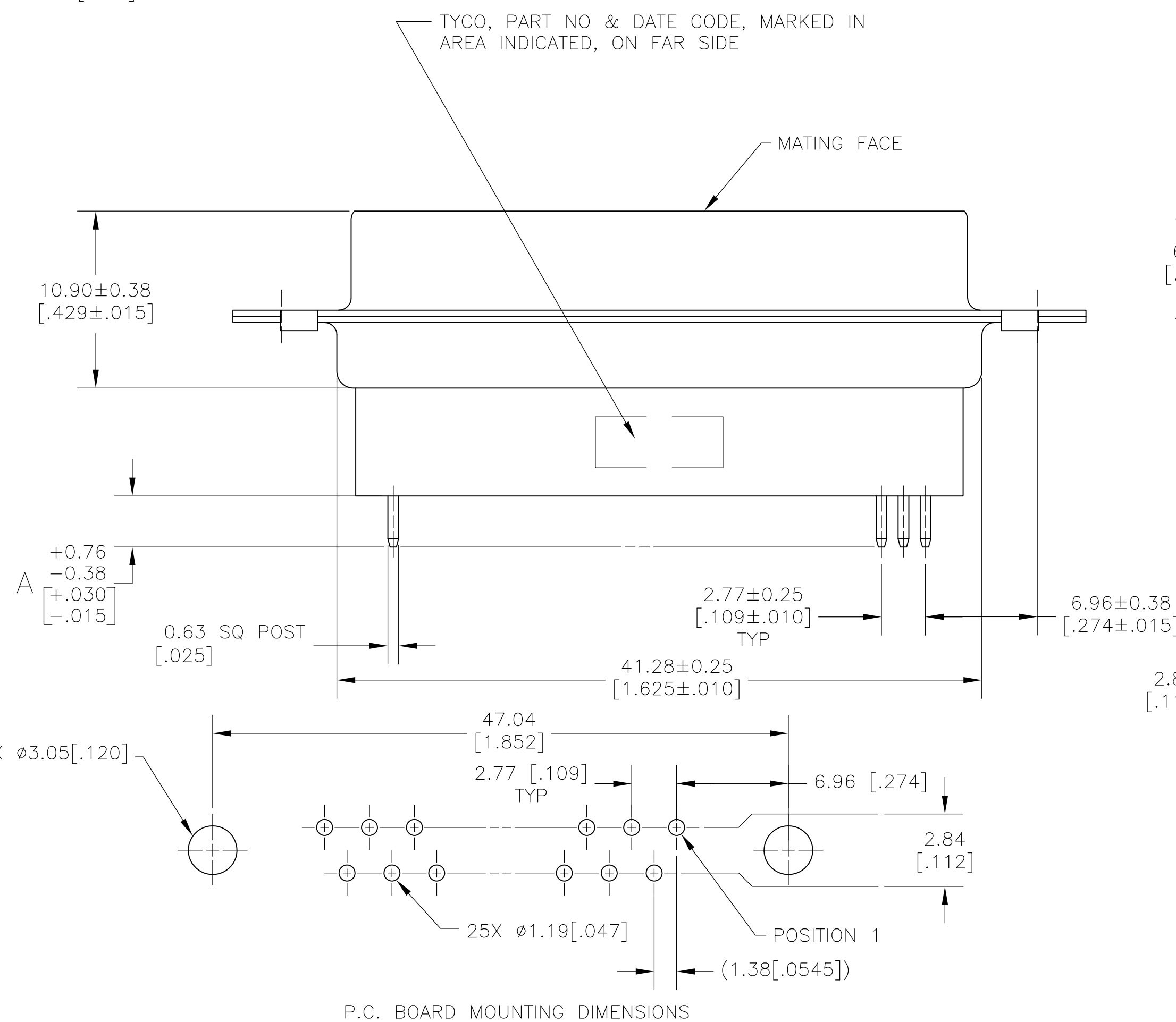
Product Features (Please use the Product Drawing for all design activity)	
<p><b>Product Type Features:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">PCB Mounting Orientation</a> = Vertical</li> <li>• <a href="#">Product Series</a> = HD 20</li> <li>• <a href="#">Mating Connector Lock</a> = Without</li> <li>• <a href="#">PCB Mount Retention</a> = Without</li> <li>• <a href="#">Shell Type</a> = Full Metal</li> <li>• <a href="#">Shell Size</a> = 3</li> <li>• <a href="#">Grounding Indents</a> = Without</li> <li>• <a href="#">Grounding Straps</a> = Without</li> <li>• <a href="#">PCB Mount Style</a> = Through Hole</li> <li>• <a href="#">Color Code</a> = None</li> <li>• Sealed = No</li> <li>• Profile = High</li> <li>• Post Size (mm [in]) = 0.64 [.025]</li> <li>• Mounting Hole Diameter (mm [in]) = 3.05 [.120]</li> <li>• Shell Material = Steel</li> </ul> <p><b>Mechanical Attachment:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Panel Mount Retention</a> = Without</li> </ul> <p><b>Termination Features:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Grounding Clips</a> = Without</li> <li>• <a href="#">Termination Post Length (mm [in])</a> = 3.18 [0.125]</li> <li>• <a href="#">Solder Tail Contact Plating</a> = Tin over Nickel</li> </ul> <p><b>Dimensions:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">PCB Thickness, Recommended (in [mm])</a> = 0.062 - 0.093 [1.57 - 2.36]</li> </ul>	<p><b>Body Features:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Insert Material</a> = Thermoplastic</li> <li>• <a href="#">Shell Plating</a> = Tin</li> </ul> <p><b>Contact Features:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Contact Plating, Mating Area, Material</a> = Gold (30)</li> <li>• <a href="#">Contact Shape</a> = Square</li> <li>• <a href="#">Contact Base Material</a> = Phosphor Bronze</li> </ul> <p><b>Housing Features:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Connector Style</a> = Receptacle</li> </ul> <p><b>Configuration Features:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Number of Positions</a> = 25</li> </ul> <p><b>Industry Standards:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">RoHS/ELV Compliance</a> = RoHS compliant, ELV compliant</li> <li>• <a href="#">Lead Free Solder Processes</a> = Wave solder capable to 260°C, Wave solder capable to 240°C, Wave solder capable to 265°C</li> <li>• <a href="#">RoHS/ELV Compliance History</a> = Always was RoHS compliant</li> <li>• <a href="#">Insert Flammability Rating</a> = UL 94V-0</li> </ul> <p><b>Operation/Application:</b></p> <ul style="list-style-type: none"> <li>• <a href="#">Application</a> = Standard</li> </ul> <p><b>Other:</b></p> <ul style="list-style-type: none"> <li>• Brand = AMP</li> <li>• Comment = All receptacles are preloaded with size 20 DF posted socket contacts</li> </ul>

THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION  
 © COPYRIGHT 2005 BY TYCO ELECTRONICS CORPORATION. ALL RIGHTS RESERVED.

LOC	DIST	REVISIONS			
P	LTR	DESCRIPTION	DATE	DWN	APVD
GP	00	C	REVISED PER ECO-10-000073	2FEB2010	CJV SB



- 1 MOLDED PARTS: GLASS-FILLED NYLON, UL 94V-0 RATED, COLOR BLACK.  
SHELLS: CARBON STEEL.  
CONTACTS: PHOS BRONZE.
- 2 SHELLS: 5.08µm [.000200] MIN TIN OVER 2.54µm [.000100] MIN COPPER.  
CONTACTS: SEE TABLE
- 3 GOLD FLASH ON MATING END, 2.54µm [.000100] MIN TIN ON SOLDER END, BOTH OVER 1.27µm [.000050] MIN NICKEL.
- 4 0.76µm [.000030] MIN GOLD ON MATING END, 2.54µm [.000100] MIN TIN ON SOLDER END, BOTH OVER 1.27µm [.000050] MIN NICKEL.  
-OR-  
GOLD FLASH OVER PALLADIUM-NICKEL 0.76µm [.000030] MIN TOTAL ON MATING END, 2.54µm [.000100] MIN TIN ON SOLDER END, BOTH OVER 1.27µm [.000050] MIN NICKEL.



CONTACT FINISH	DIMENSION A	PART NO
3	4.77 [.188]	5745187-8
4	4.77 [.188]	5745187-7
4	10.84 [.427]	5745187-3
4	3.17 [.125]	5745187-1

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN B. LATTUCA 14SEPT05	Tyco Electronics Corporation Harrisburg, Pa 17105-3608	
DIMENSIONS: mm[INCHES]		CHK S. BOLASH 14SEPT05	NAME	
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD M. WALMSLEY 14SEPT05	RECEPTACLE ASSEMBLY, SIZE 3, 25 POSITION, VERTICAL, AMPLIMITE HDP	
0 PLC ± -	1 PLC ± -	PRODUCT SPEC 108-40025	SIZE A2	CAGE CODE 00779
2 PLC ± -	3 PLC ± 0.13 [.005]	APPLICATION SPEC 114-40013	DRAWING NO C=5745187	RESTRICTED TO -
4 PLC ± -	ANGLES ± 2°	WEIGHT -	SCALE NTS	SHEET 1 OF 1
MATERIAL 1	FINISH 2	CUSTOMER DRAWING	REV C	

5745187