

Amphenol	Product Application Specification	Produc	t Spec. # S-SE-033	Date : 2024/12/31	
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1. OBJECTIVE

This specification provides information and requirements for customer application of the 0.65pitch Gen6 vertical Slim Cool edge connector. It is intended to provide general guidance for process development. It should be recognized that no single process will work under all customer applications and the customers should develop processes to meet individual needs. However, if the processes vary from the recommended one, Amphenol cannot guarantee acceptable results.

2. SCOPE

This specification provides information and requirements regarding application of 0.65 pitch vertical Slim Cool edge connector to printed circuit boards (PCB). The connectors are designed for mother/daughter board applications and will accept different thickness of daughter card. They are available with multiple contacts.

3. DRAWING AND APPLICABLE DOCUMENTS

- Amphenol Product Specification S-SE-022
- Application Amphenol Customer Drawings

Amphenol product drawings and specifications are available by accessing the Amphenol website or contacting the Amphenol Technical Service. In the event of a conflict between this specification and the product drawing, the drawing takes precedence. Customers should refer to the latest revision level of Amphenol product drawings for appropriate product details.

4. PC BOARD REQUIREMENTS

4.1 MATERIAL AND THICKNESS

The pc board material shall be glass epoxy (FR4 or G-10).

4.2 MOTHER BOARD COPLANARITY TOLERANCE

Maximum allowable bow (co-planarity) shall be 0.03mm across the length of the pad area in the case of 0.13mm thick solder paste



FIGURE 1

4.3LAYOUT

The holes for the connector assembly must be precisely located to ensure proper placement and optimum performance of the connector assembly. Recommended general holes, pads, dimensions, and tolerances are provided in Figure 2 to 5. It's a general layout, please refer to appropriate sales drawing for recommended PCB layout and thickness for each parts.









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7. CURRENT RATING Please refer to be	PER SIGNAL PIN AND P elow table for signal pin cu	OWER PIN rrent rating			
	PIN COUNT	CURRENT (A)			
< 10 pin 1.0					

PIN COUNT	CURRENT (A)
$\leq 10 \text{pin}$	1.0
$\leq 20 \text{pin}$	0.8
\leq 60pin	0.6
> 60pin	0.5

Power pin current rating is 50 to 100A, Need to do customized design according to customer needs.

8. PIN MAP

The pin map definition must conform to "GSSGSSGSSG......GSSG". The pin map and part number can be different upon different signal requirement. Please confirm the definition of pin map with Amphenol.