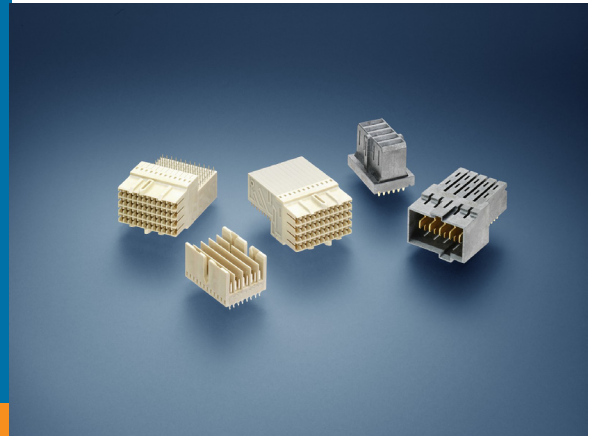


Z-PACK SLIM UHD

Backplane Connector



Accommodating a broad spectrum of speeds up to 20 Gbps, TE's Z-PACK Slim UHD backplane connector lets you design for today's speed while planning for tomorrow's. Designed to be the densest connector in the smallest possible footprint, the connector frees up PCB space, giving you more room to design for performance. Through a highly configurable design, the Z-PACK Slim UHD connector offers the flexibility needed to design intricate communication systems.

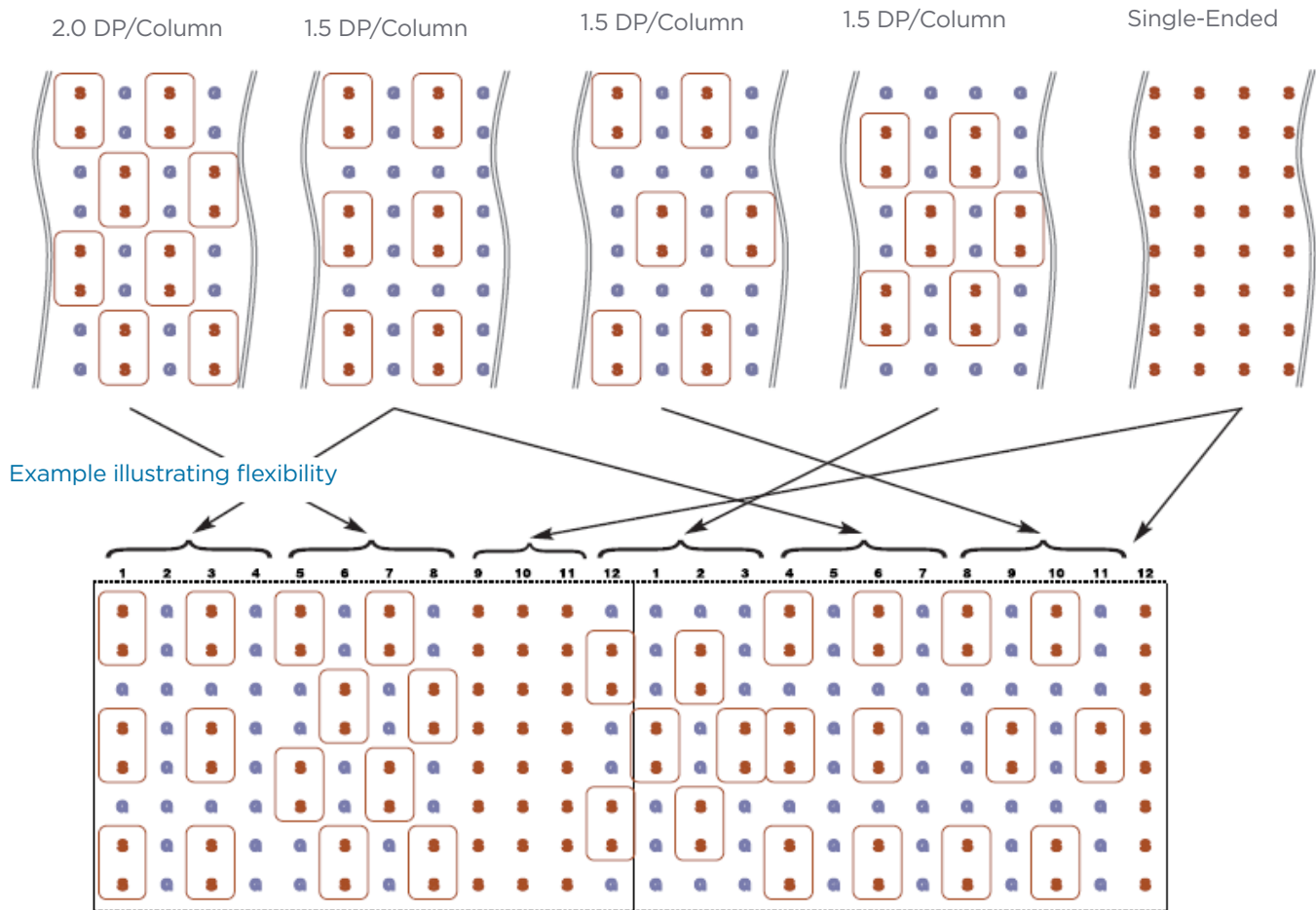
- **Speed Scalability and Configurability:** The Z-PACK Slim UHD connector transfers data at 12.5 Gbps, with scalability up to 20 Gbps, allowing you to efficiently increase your communication system's speed without modifying the existing PCB footprint.
- **Space Savings:** Owing to its small size, which is about 10% smaller than similar products on the market, the product fits into tight 15mm (0.6 inch) slot pitch applications, offering significant PCB space savings.
- **Design Flexibility:** Through a highly configurable design, multiple pin assignments can be achieved.

Applications

- Switches
- Routers
- Servers
- Other telecommunication equipment

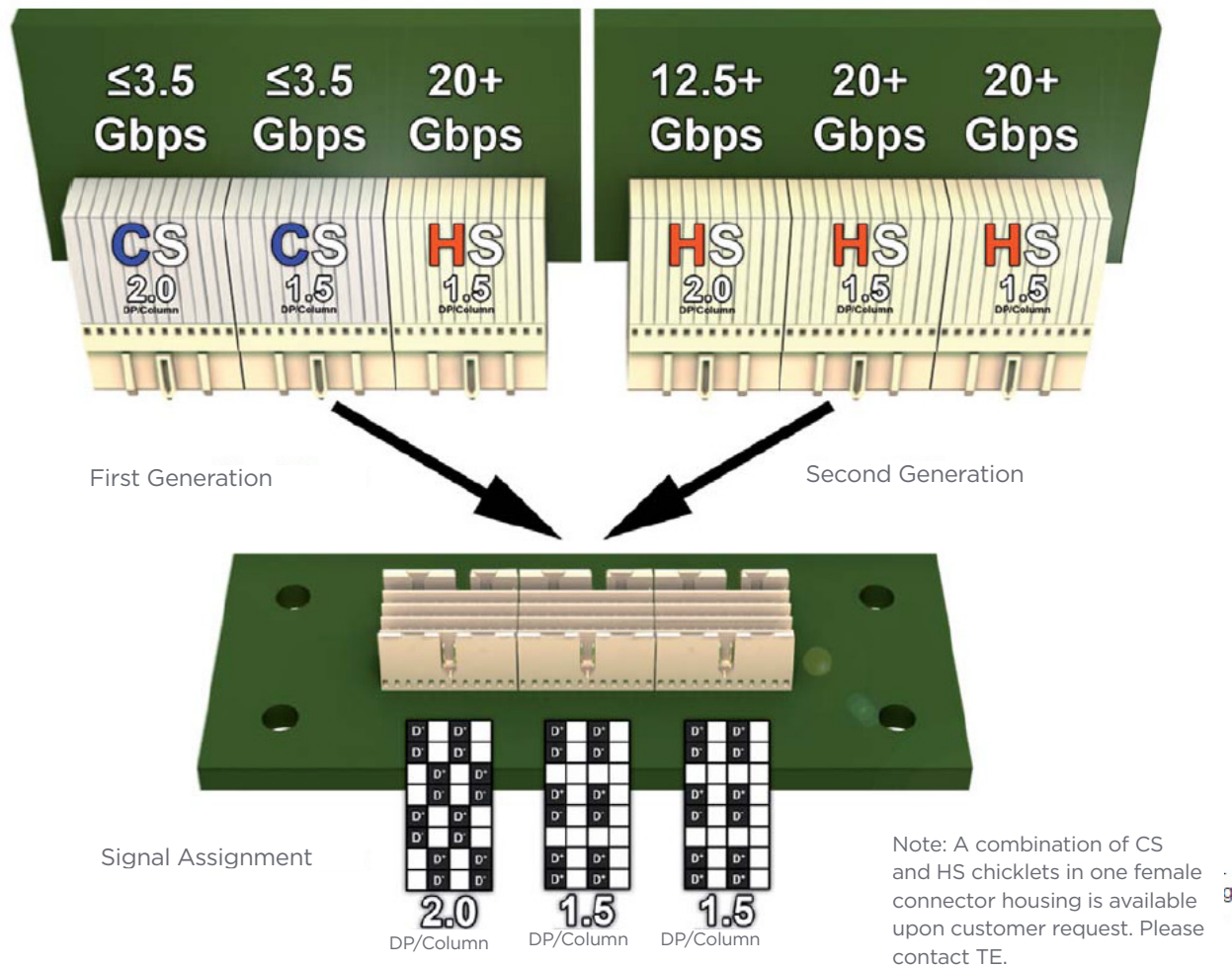
Design Flexibility - Pin Assignments

- Below are examples of the various connector pin assignments available:
 - 1.5 differential pairs per column
 - 2.0 differential pairs per column
 - Extremely high density in a fully single-ended arrangement up to 55 signal lines/cm²



For more pin assignments, please refer to application specification 114-19106 (high speed) or 114-19112 (common speed). You can also contact TE.

Speed Scalability



Space Savings

Drill Size: 0.5 mm

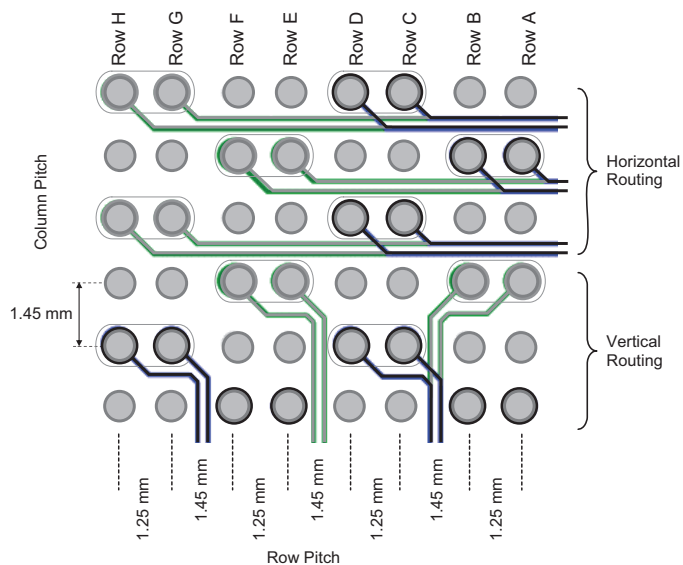
Finished Hole Size: 0.4 mm

Pad Size: 0.8 mm

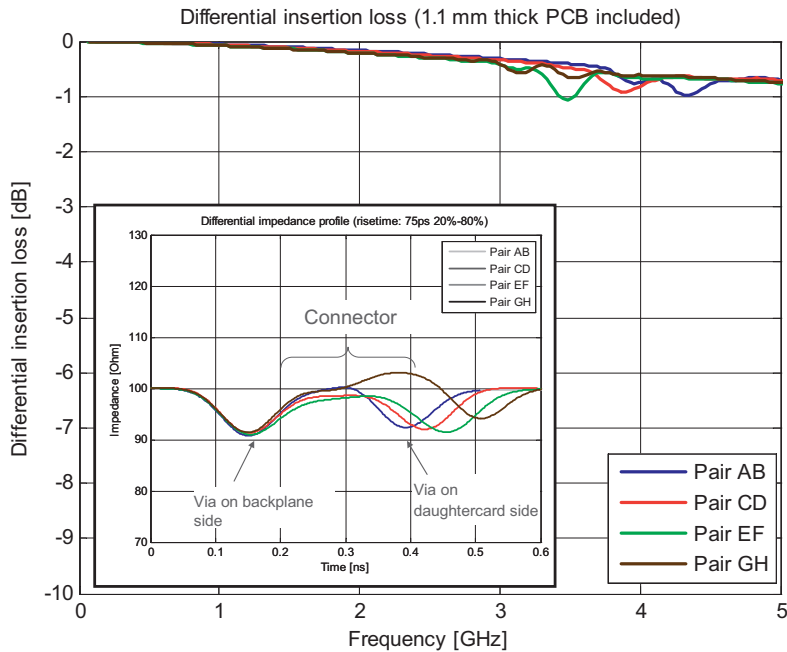
Anti-Pad Size: 0.95 mm

- Identical board footprints on backplane and daughter-card
- 1.45 mm routing channels available in horizontal and vertical direction
- Footprint allows 4-6-4 MIL or 5-7-5 MIL differential routing

System and connector evaluation boards are available upon request.



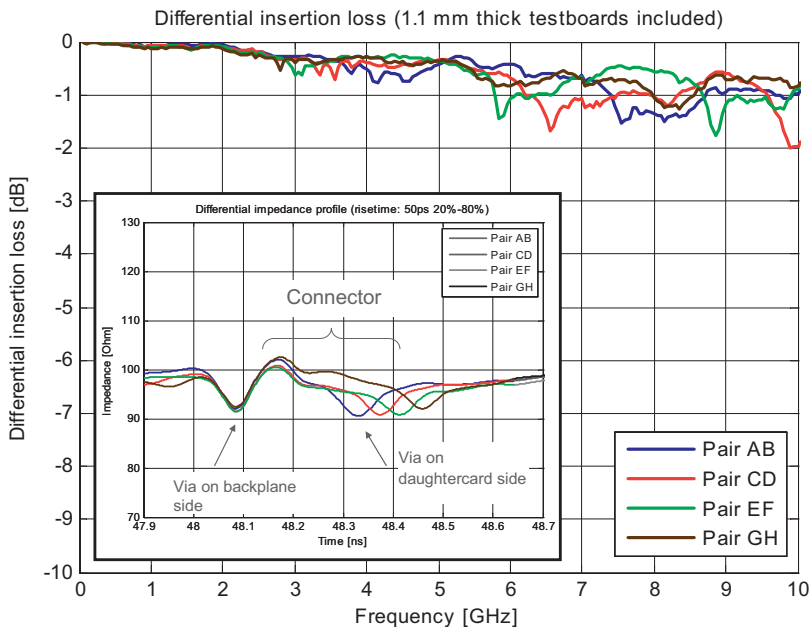
Typical Electric Properties



2.0 DP/Column Common Speed*

Worst Case Noise with recommended TX/RX pinout:
2.1 % @ 75 ps (20 % to 80 %)

Noise Summary	Total Asynchronous Noise @ 75 ps Risetime (20 % to 80 %)	
	2.0 different pairs/column	
Victim Pair	Total Async. NEXT	Total Async. FEXT
Pair AB	1.4 %	0.7 %
Pair CD	2.9 %	1.1 %
Pair EF	2.9 %	1.2 %
Pair GH	1.4 %	0.7 %



2.0 DP/Column High Speed**

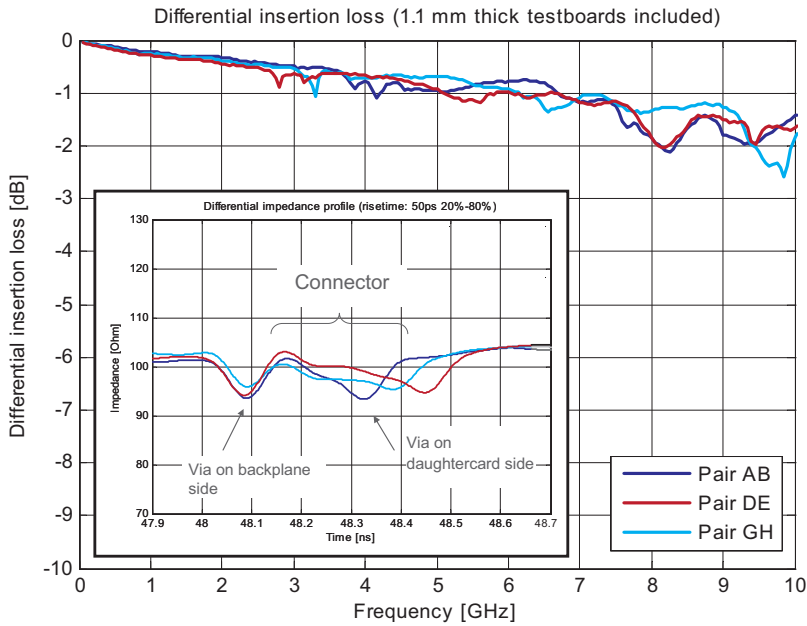
Worst Case Noise with recommended TX/RX pinout:
1.9 % @ 50 ps (20 % to 80 %)

Noise Summary	Total Asynchronous Noise @ 50 ps Risetime (20 % to 80 %)	
	2.0 different pairs/column	
Victim Pair	Total Async. NEXT	Total Async. FEXT
Pair AB	1.5 %	0.6 %
Pair CD	3.1 %	1.3 %
Pair EF	3.1 %	1.5 %
Pair GH	1.5 %	0.8 %

* All simulation data include the footprint performance of a 1.1mm thick PCB test-board.

** All measurement data include the footprint performance of a 1.1mm thick PCB test-board.

Typical Electric Properties



1.5 DP/Column High Speed**

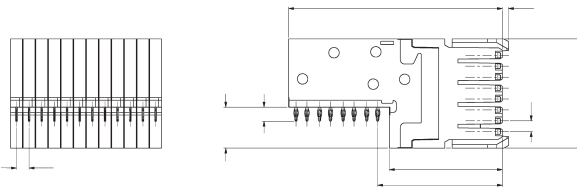
Worst Case Noise with recommended TX/RX pinout:
0.9 % @ 50 ps (20 % to 80 %)

Noise Summary	Total Asynchronous Noise @ 50 ps Risetime (20 % to 80 %)	
	2.0 different pairs/column	
Victim Pair	Total Async. NEXT	Total Async. FEXT
Pair AB	1.0 %	0.6 %
Pair DE	0.4 %	0.6 %
Pair GH	1.2 %	0.8 %

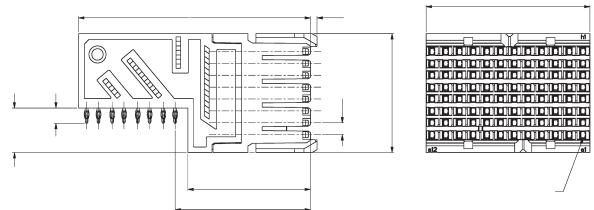
** All measurement data include the footprint performance of a 1.1mm thick PCB test-board.

Connector Offerings: Female Connector

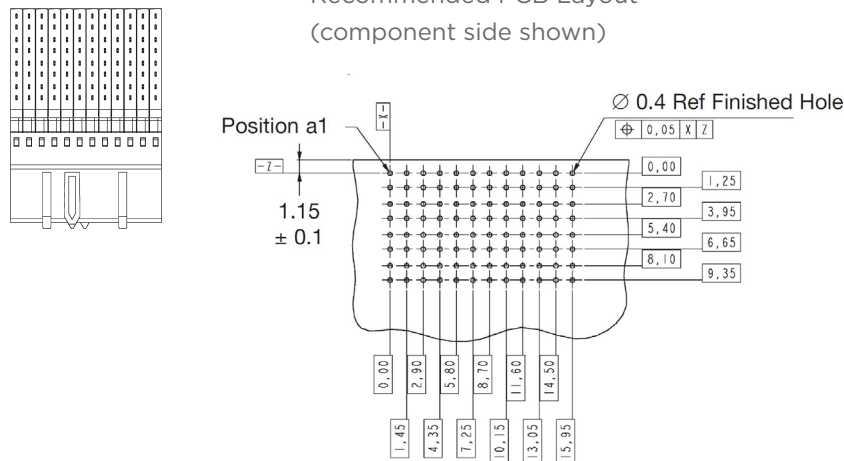
High Speed Version



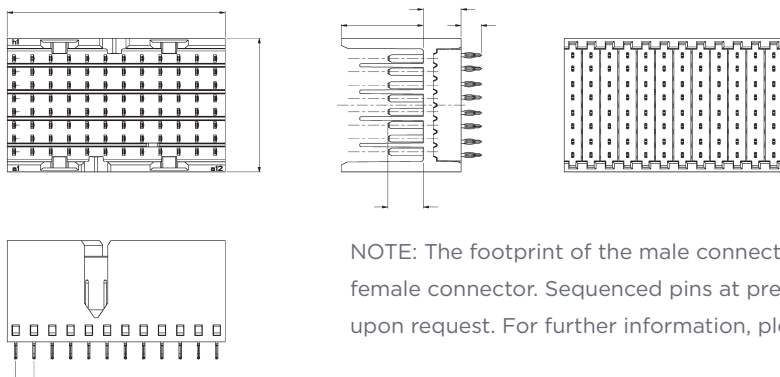
Common Speed Version



Recommended PCB Layout
(component side shown)



Connector Offerings: Uniform Male Connector for High and Common Speeds



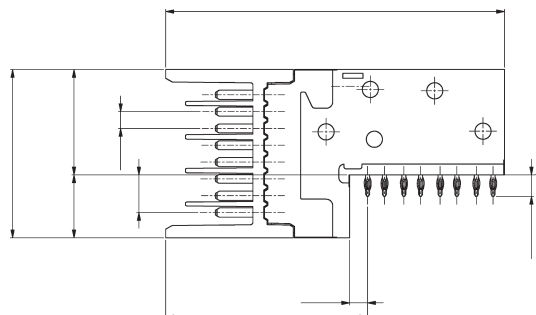
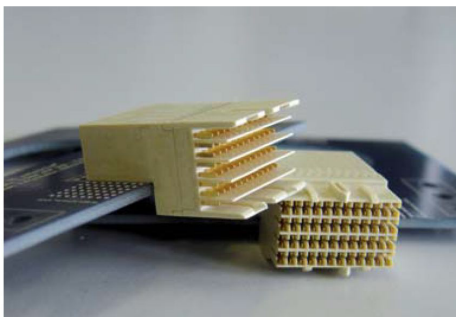
NOTE: The footprint of the male connector is identical to the footprint of the female connector. Sequenced pins at predefined positions can be obtained upon request. For further information, please contact TE.

	Reference Part Numbers				Application Tooling		
	Product Specification	Application Specification	Female	Male	Part Number	Description	Instruction Sheet
High Speed	108-19353 108-19320	114-19106	1857657-1 1857657-2	Vertical 2042088-1 2042088-2	1-528508-4 528508-2 528504-2	Pin Bending Tool Removal Tool Insertion Tool	412-18997 412-18997 412-18984
Common Speed	108-19354 108-19352	114-19112	1982738-1 1982738-2	Right Angle 2042162-1 2042162-2 2042139-1 2042139-2			
Power	108-19367	114-19122	1982257-5	1982260-5			

Complementary Products

Right-Angle Male Connector

- Co-planar application based on right-angle female and right-angle male
- Performance up to 20+ Gbps (in combination with female high-speed connector)

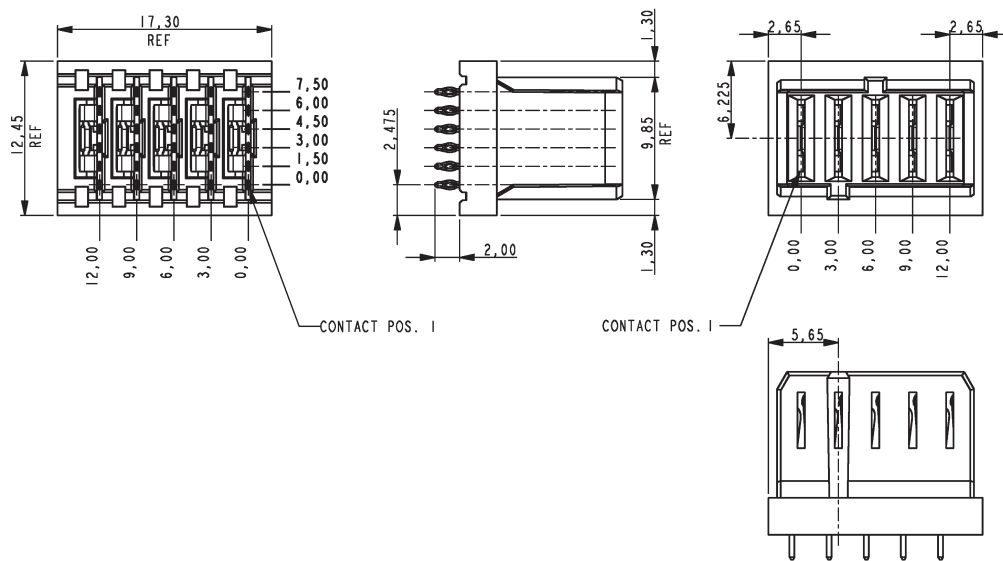


Power Connector

- Envelope dimensions identical to Z-PACK Slim UHD modules
- High durability (250 cycles)
- Two sequencing levels
- Current carrying capacity >18 Amp per contact

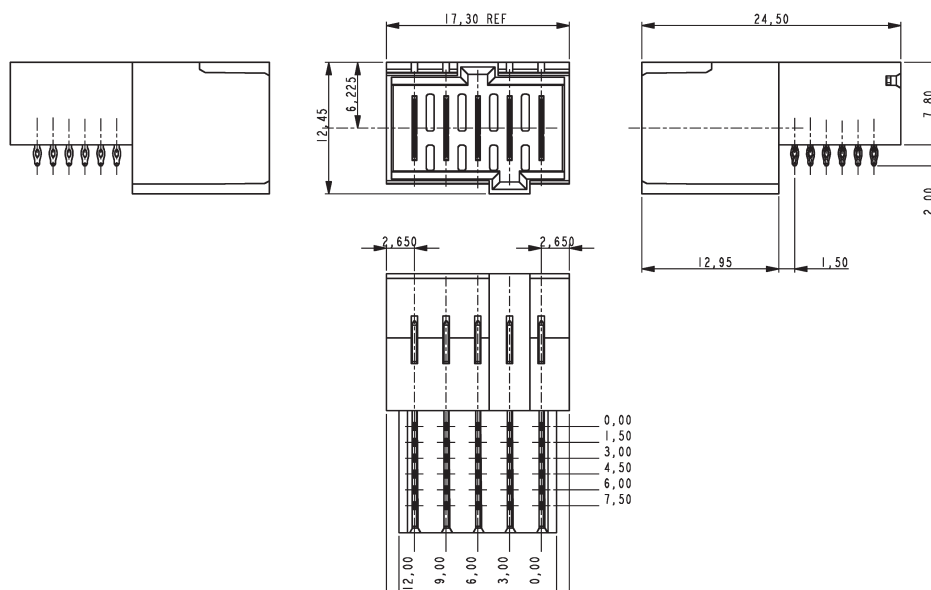


Power Female Connector:

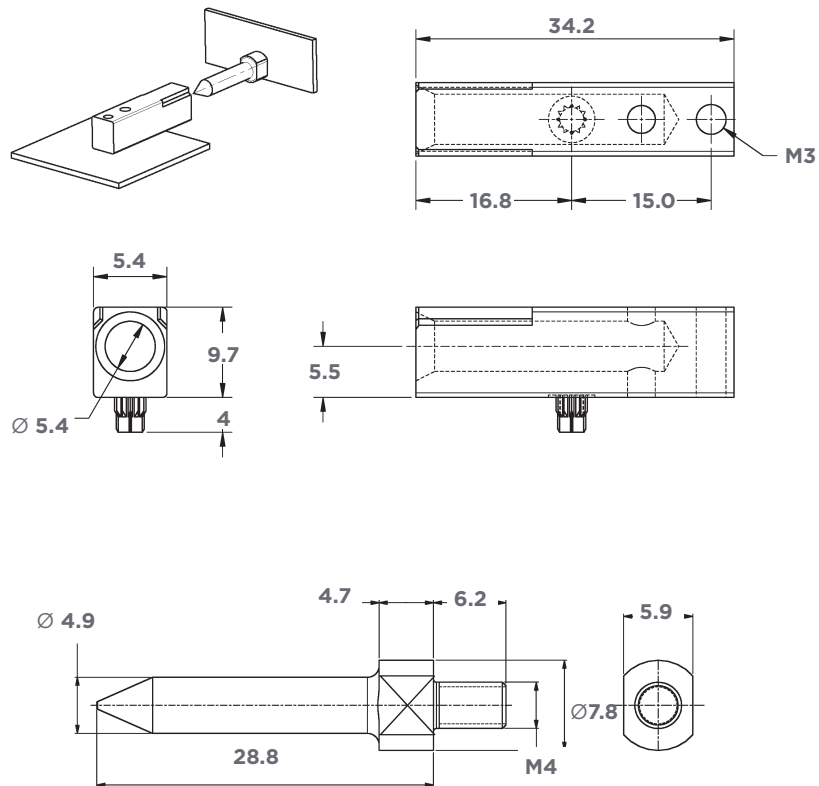


Power Male Connector:

Part No. 1982260-5



Guide Pins



Female Guide Module
Part No. 223957-3

Male Guide Pin
Part No. 1857988-1

For More Information

www.te.com

TE Technical Support Center

USA: +1 (800) 522-6752
Canada: +1 (905) 475-6222
Mexico: +52 (0) 55-1106-0800
Latin/S. America: +54 (0) 11-4733-2200
Germany: +49 (0) 6251-133-1999
UK: +44 (0) 800-267666
France: +33 (0) 1-3420-8686
Netherlands: +31 (0) 73-6246-999
China: +86 (0) 400-820-6015

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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru