

产品概况

得润DDR DIMM符合JEDEC工业规范, 可提供各世代的产品, 最高传输速率可达6.4GT/s。4代之前, DIP款是主流, 5代后有变化, 信号速率的提升需要表面贴装(SMT)型来满足。这不仅是要减少连接器本身的串扰, 还要减少主板布线的串扰。我们的SMT DDR 4和5的绝缘本体比协会定义的更窄一些, 这意味着在高密度应用领域, 我们的连接器将具有更好的热效率。此外, 在一些高可靠性的应用领域, 我们可以提供双接触点的DDR5连接器。

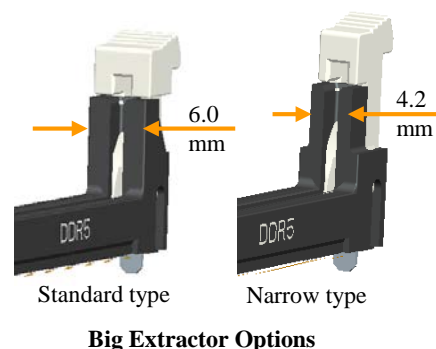
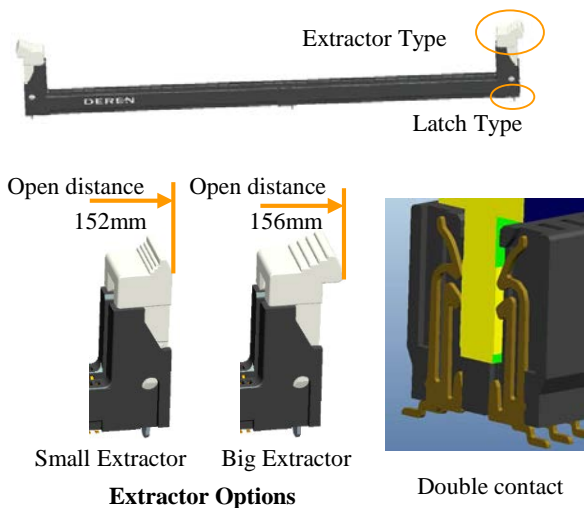
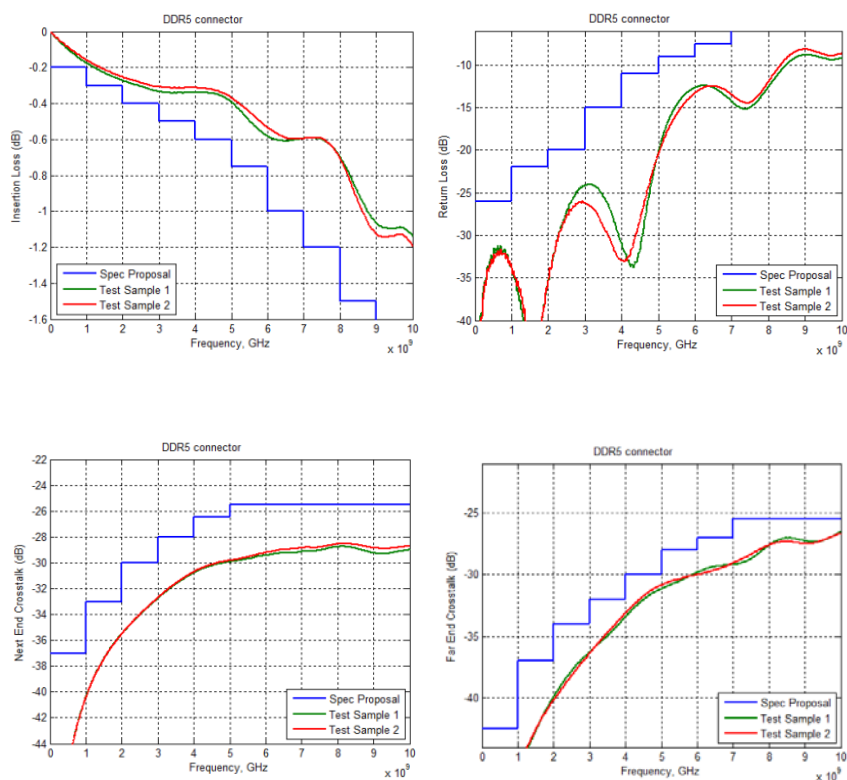
产品应用

- 台式电脑
- 服务器
- 通用内存扩展应用

技术信息

- 更窄的绝缘本体设计在SMT型连接器上, 散热效率更好。
- 窄耳扣设计提供良好的气流性能。
- 可提供多种耳扣规格, 以满足客户不同的应用领域。
- 可提供双接触点DDR5, 满足客户高可靠性应用。
- 产品包装有软托盘和硬托盘两种规格可选。
- 数据传输速率高达6.4GT/s。
- 单端信号特性阻抗: 50Ω。

高频信号完整性



机械性能

- 插入力(模块到连接器):最大106.8N
- 端子保持力:300gf min.
- 耐久性:25次。

电气性能

- 低阶接触电阻:10mΩ初始, △10mΩ
- 绝缘电阻:1MΩ min.
- 耐电压:250VAC。
- 额定电流:0.75A/单pin

环境性能

- 易燃性:UL 94 V-0
- 低卤素:最大1000ppm Cl, 最大1000ppm Br
- 符合RoHS 指令2011/65/EU
- 工作温度:-55℃~ + 85℃

产品规范

- JEDEC 规范: DDR4 288pin: SO-016 (DIP), SO-018(SMT) / MO-309 (Module)
DDR5 288pin: SO-023 / MO-369
- 得润产品规范: DDR4: DR-PS-0046 / DDR5: DR-PS-0115

GENERAL PROFILE

DDR Connectors meet JEDEC industrial specification. Support diverse generations of connectors with data rate transfer up to 6.4GT/s. Before DDR4, the through hole type of connector is the mainstream. But situation will be changed after DDR5. The signaling scalability requires surface mount (SMT) type, not only to reduce the crosstalk of connector itself, but also to reduce the crosstalk of transmission lines on motherboard (MB). The housing bodies of our SMT DDR 4&5 are narrower than of JEDEC spec, which means in the high density application fields, our connectors would have much better thermal efficiency. Furthermore, in some high reliability application fields, we can support double contact beam DDR5 connectors.

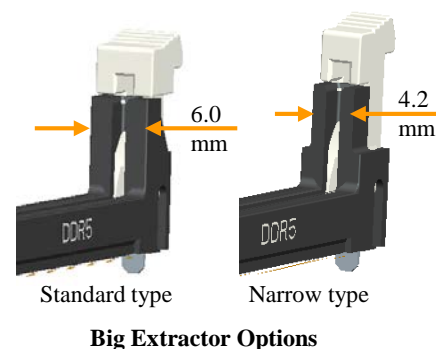
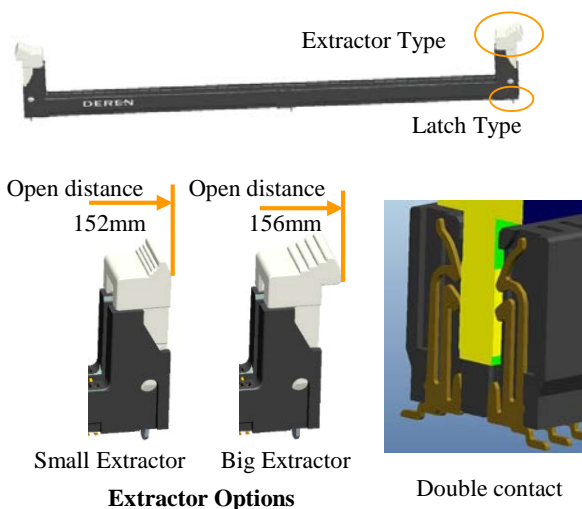
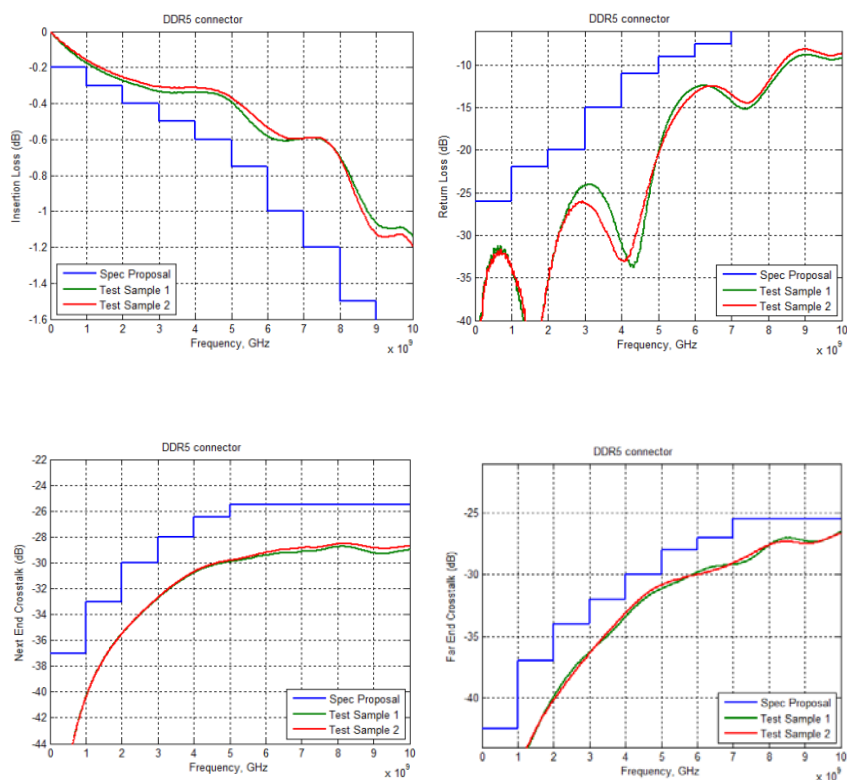
TARGET MARKET

- Desktop computer
- Server
- General memory expansion application

TECHNICAL INFORMATION

- Narrower housing body design on SMT type connectors to achieve better thermal efficiency.
- Narrow latch design provides good air-flow performance
- Support diverse latch designs to meet customer different application fields.
- Support double contact beam DDR5 for customer high reliability application.
- Packaging options: soft tray and hard tray.
- Data rate transfer up to 6.4GT/s.
- Single ended signaling with 50Ω nominal impedance

SI PERFORMANCE



MECHANICAL PERFORMANCE

- Insertion force (module to connector): 106.8N max
- Terminal retention force: 300gf min.
- Durability: 25cycles.

ELECTRICAL PERFORMANCE

- Low level contact resistance: 10mΩ initial, Δ10mΩ
- Insulation resistance: 1MΩ min.
- Dielectric withstanding voltage: 250VAC.
- Current rating: 0.75A/pin De-rate

ENVIRONMENTAL

- Flammability: UL 94 V-0
- Low halogen: 1000ppm max. Cl, 1000ppm max Br.
- Compliant with RoHS directive 2011/65/EU
- Operating Temperature: -55° C to + 85° C

SPECIFICATION

- JEDEC SPEC: DDR4 288pin: SO-016 (DIP), SO-018(SMT) / MO-309 (Module)
- DDR5 288pin: SO-023 / MO-369
- DEREN SPEC: DDR4: DR-PS-0046 / DDR5: DR-PS-0115