

DDR5 288pin SMT Connector



OVERVIEW

Luxshare-TECH's vertical DDR5 DIMM sockets provide 288 contacts on 0.85mm pitch, 2.0mm module seating plane. The DDR5 memory modules conform to JEDEC MO-329 and SMT footprint type. Luxshare DDR5 product family are widely adopted in next Gen. PCs, servers, workstations, storage, and embedded applications in communications and industrial equipment.

FEATURES & BENEFITS

- ◆ Smaller pitch 0.85mm and lower operating voltage 1.1V for power saving
- ◆ Low insertion-force design require for module card insertion and enough retention force for better reliability
- ◆ Contact design supports high speed differential signaling at data rates extending to 10 Gb/s for DDR5
- ◆ Housing design optimizes airflow
- ◆ Lead-in chamfer facilitates the smooth insertion of the memory module into the socket
- ◆ Low contact resistance supports RDIMM modules
- ◆ Different color for housing and latches can meet various requirement

PRODUCT APPLICATIONS

Data center & Networking Equipment
Servers/Storage Devices
High Performance Computing (HPC)
Switches/Routers

INDUSTRY STANDARDS

JEDEC SO-023B

DDR5 288pin SMT Connector

TECHNICAL INFORMATION

MATERIAL

Terminal: Copper Alloy
Contact Area Finish: Gold over Nickel
Solder Area Finish: Tin over Nickel
Board lock: Stainless steel, plated tin over nickel
Housing: High temperature thermoplastic(UL 94V-0)
Latch: High temperature thermoplastic(UL 94V-0)

ELECTRICAL PERFORMANCE

Voltage: 30V AC(RMS)/DC
Current: 0.75A MAX per contact
Differential Impedance: 50±5ohms

ENVIRONMENTAL

Operating temperature : -55°C TO +85°C
Storage temperature : +15°C TO +35°C
Relative humidity: 20% to 80%
Atmospheric pressure: 650mm to 800mm of Hg (86 ~106Kpa)

Partial PN Table

Product Numbers	Product Description
PDRBB9-5300-000-0H	DDR5 288pin SMT 30u" Au with Metal Tab

MECHANICAL PERFORMANCE

Rated Durability Cycles: 25
Mating Force: 106.8N /pin MAX
Unmating Force: 14gf MIN/Per pin pair
Retention force- Terminal: 300gf/pin MIN
Retention force- Board lock: 13.3N /pin MIN
Insertion force - Connector to board: 7.65Kgf MAX

PACKAGING

Tray

SPECIFICATION

ES-11-00-0004