

SlimSAS™ Connectors – U10 Series

PROVEN, HIGH SPEED, NEXT-GENERATION SAS-4 INTERFACE

SlimSAS™ connectors address issues in next-generation storage devices such as bulk cable form factor restrictions and the introduction of multi-lane storage devices.

SlimSAS™ connector is a 0.60mm pitch interconnect system which offers superior signal integrity performance over standard Mini-SAS solutions.

- Designed for unshielded, internal or external I/O connectors
- Compliant with T10/Serial Attached SCSI (SAS-4) standard
- Supports many assembly options



FEATURES

- High density connector
- 0.60mm pitch, 4x, 6x, 8x, 12x configurations
- 8x SlimSAS[™] solution consumes the same area as 4x Mini-SAS HD
- Supports internal and external I/O applications
- Small Form Factor
- High data rate
- Low profile packaging
- Meets SAS 4.0, 24Gb/s specification
- Resonance dampening feature
- Supports many assembly options

BENEFITS

- Low profile connector saves space
- Complete interconnect solution for different applications
- Performance targeted for next-gen SAS 4.0 and PCIe[®]
 Gen 4
- Receptacle mates pluggable modules
- Supports desired high speed design
- Meets next-generation industry standards
- Customized signal integrity specification and support NVLink 25G
- Supports blade and mainstream server designs

TECHNICAL INFORMATION

MATERIAL

 Housing: Black color, LCP, Lead-free solder re-flow process compatible thermoplastic

• Contact Base Material: Phosphor Bronze

• Contact Normal Force: 50g nominal

• Plating Solder Tails: Matte tin or Gold flash options

• Plating Mating Tails: Gold

• Resonance Dampening Feature: Conductive Polymer

MECHANICAL PERFORMANCE

• Mating Force: 55.5N max.

• Durability: 250 mating cycles min.

• Latch Retention Force: 50N min.

Insertion Force: 55.5NWithdrawal Force: 49N

APPROVALS AND CERTIFICATIONS

■ UL 94V-0

RoHS

- Halogen-free

PACKAGING

■ Tape & Reel

ELECTRICAL PERFORMANCE

• Voltage Rating: 30VDC per contact max.

• Current Rating: 0.5A per contact max.

• Differential Impedance: $85\Omega \pm 10\Omega$

ENVIRONMENTAL

■ Operating Temperature: -40°C to +85°C

SPECIFICATION

■ Amphenol Product Specification: SFF-8654

TARGET MARKETS/APPLICATIONS

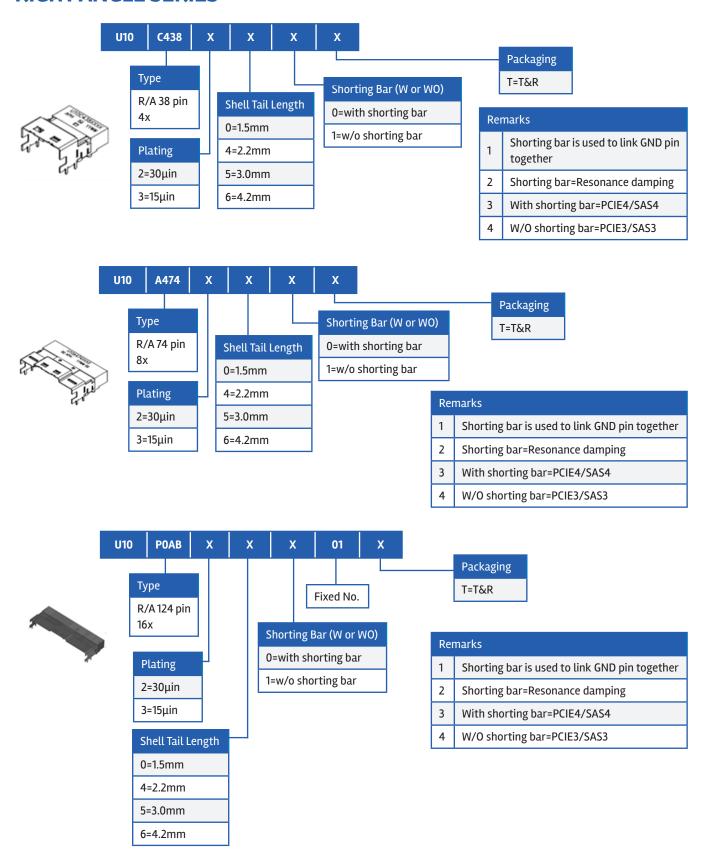


Data Center HBA (Host Bus Adapter) Servers RAIDS (Redundant Array of Individual Disks)

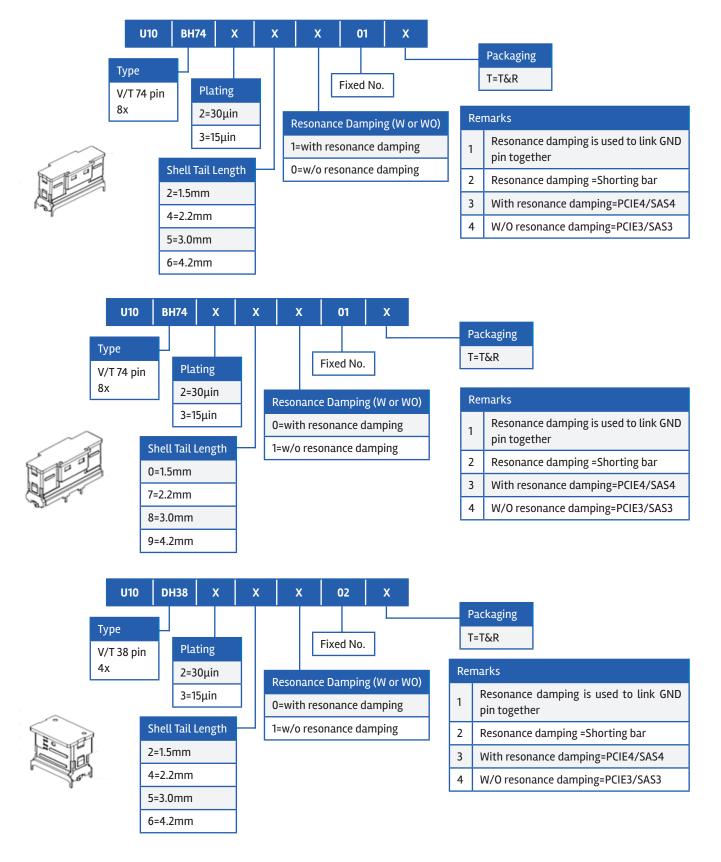
Routers Switches Servers Storage Racks Storage Controllers

PART NUMBER SELECTOR

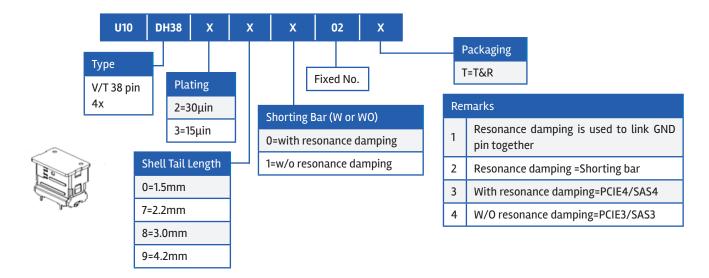
RIGHT ANGLE SERIES



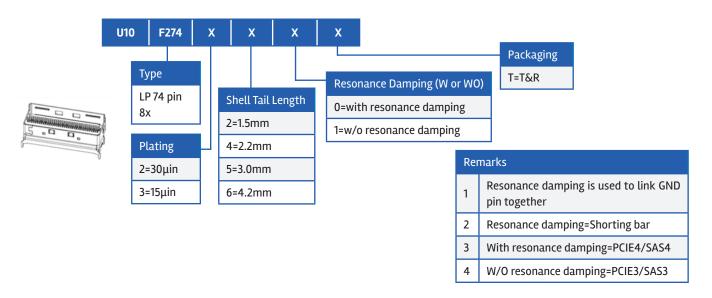
VERTICAL SERIES

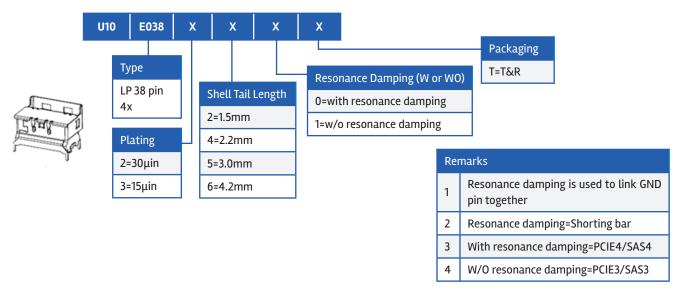


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LOW PROFILE SERIES





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