

Mini-SAS HD Internal Connectors – G40H Series

NEXT-GENERATION SAS STORAGE INTERFACE

Amphenol Mini-SAS High Density connector system is the next generation SAS system that provides faster data rates and more bandwidth. It provides double the port density of current Mini-SAS connectors with 1x1, 1x2 and 1x4 port options.

- Fully compliant with SFF-8643 specification
- Meets SAS 3.0 12Gb/s
- 85Ω solution compliant with PCIe protocol
- Wafer design delivers better signal integrity
- Supports projected SAS 4.0 performance



FEATURES

- Complies with SFF8643 specification
- 0.75mm pitch connector system
- Meets SAS 3.0, 12Gb/s electrical performance
- Improved signal integrity and minimized crosstalk
- Eliminates need for mechanical key
- Pinouts map easily with existing Mini-SAS product
- Backward compatible with Mini-SAS
- Press-fit termination

BENEFITS

- Supports server and storage applications
- Suitable for high density applications
- Meets industry standards
- Lowers system latency and better system performance
- Easy to mate and unmate
- Supports SAS 2.1 performance as well
- Integrated press-fit pin design provides easy placement on PCB

TECHNICAL INFORMATION

MATERIAL

- Housing: High temperature thermoplastic, UL 94V-0
- Contact Base Metal: Copper alloy
- Under-Plating: Nickel plating overall
- Shell: Stainless Steel

MECHANICAL PERFORMANCE

- Durability: 250 mating cycles
- Mating Force: 50N max.
- Unmating Force: 10N max.

ELECTRICAL PERFORMANCE

- Current Rating: 0.5A max. per contact
- Voltage Rating: 30V AC/ DC max.
- Dielectric Withstanding Voltage: 300V DC
- Insulation Resistance: 1000m Ω min.
- Differential Impedance: 100 Ω \pm 10 Ω

ENVIRONMENTAL

- Humidity: 24 cycles between 25°C/ 80%RH
- Temperature Life: EIA-364-17, 105°C for 336 hours
- Thermal Shock: -55°C to 85°C, 10 cycles

PACKAGING

- Tray/Tape and Reel available upon request

SPECIFICATION

- Amphenol Product Specification: PS-7460

APPROVALS & CERTIFICATION

- UL

TARGET MARKETS/APPLICATIONS



Router
Telecommunication

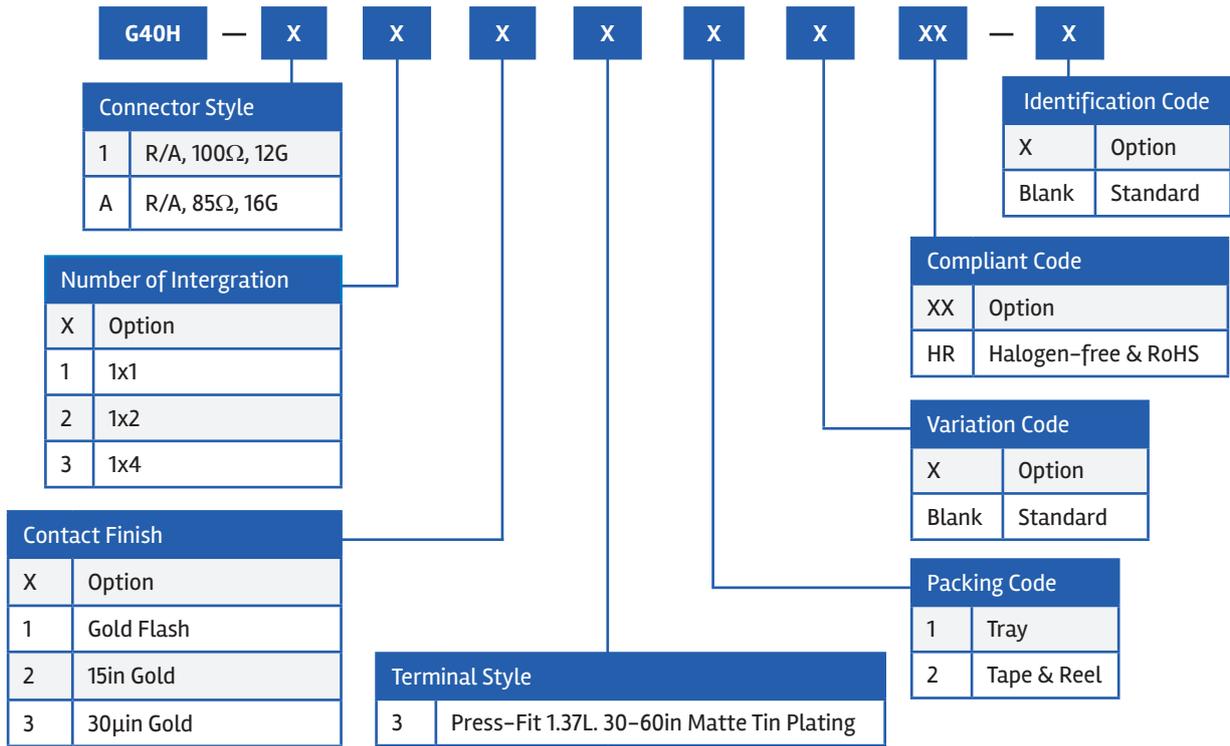


Networking
Servers
Storage

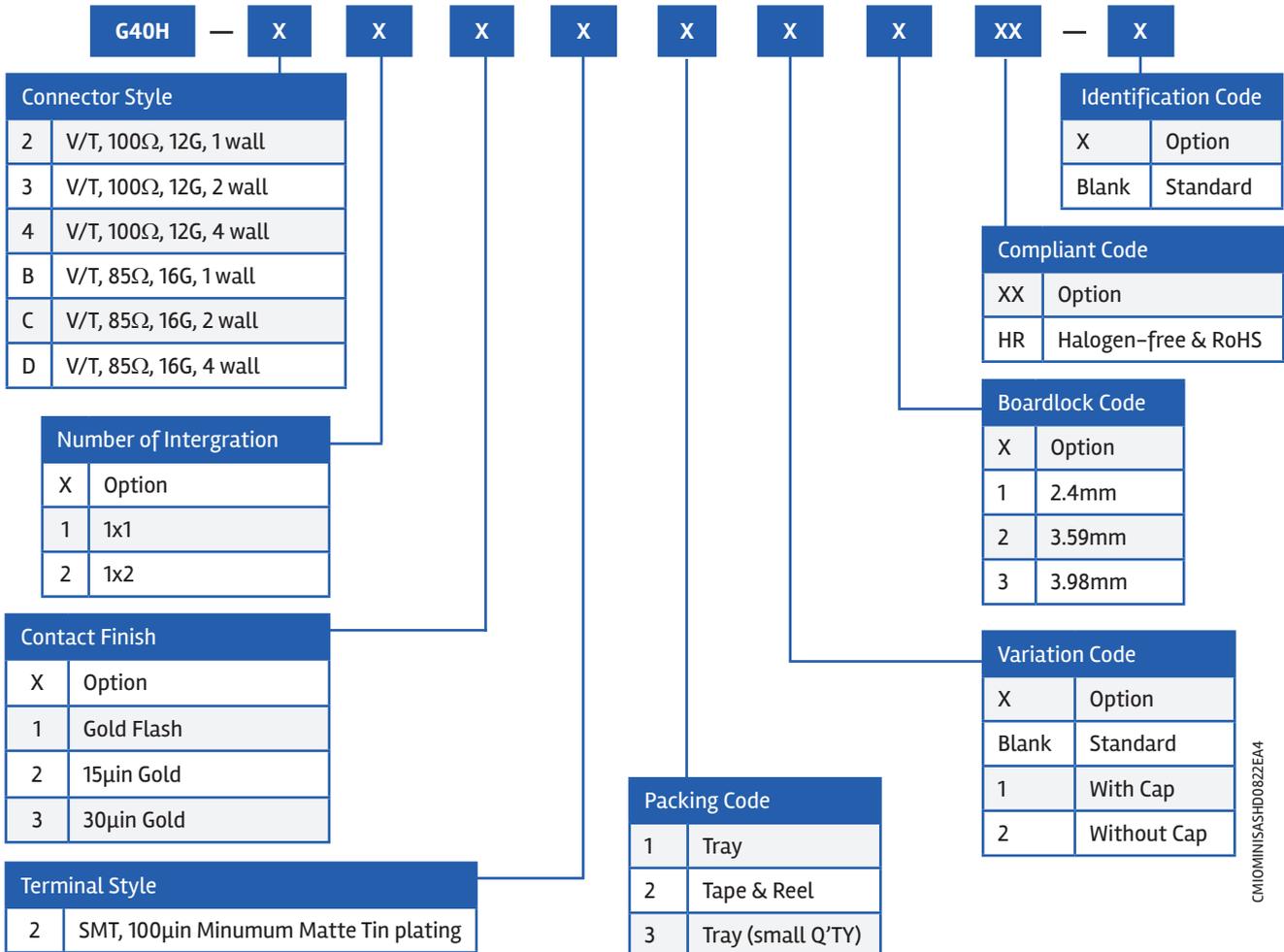


Test and Measurement Equipment
Instrumentation and Medical

PART NUMBER SELECTOR – RIGHT ANGLE



PART NUMBER SELECTOR – VERTICAL



CM10MINISASHD082EA4