

Dubox® SHUNTS Board/Wire-to-Board Connectors

RELIABLE DESIGN, ENHANCED RETENTION

Amphenol's Dubox® SHUNTS has a comprehensive and extensive solution designed with solder tails that self-center on circuit pads to assure coplanarity. A locating feature helps to maintain alignment for soldering and facilitates robot placement.

- Dual beam contact design to ensure high reliable electrical performances
- Contact pre-stressed that requires low insertion force required
- 4 wall contact design for signal protection



FEATURES

- Dual beam contact design
- Pre-stressed contact
- Mates with very short pins (5mm) and are stackable end-to-end and side-by-side
- Floating solder tails with self-centering on the circuit pads
- 4 wall contact design
- Duplex plating
- Locating feature available
- High-temperature thermoplastic material
- Compliant to DIN41651 specifications, HE13 and BT D2632

BENEFITS

- Highly reliable electrical performances
- Low insertion force
- Suitable for mezzanine applications and meets different application requirements
- Assures coplanarity
- Improved signal protection
- Cost efficient
- Maintains the alignment for soldering and facilitates robotic placement
- Compatible with Infrared and Vapor phase reflow
- Qualifies industry specific standards

TECHNICAL INFORMATION

MATERIAL

- Housing: High-temperature, black thermoplastic
- Flammability Rating: UL94V-0
- Pin: Phosphor Bronze
- Plating: Gold or Tin over 1.27µm (50µin.) Nickel



MECHANICAL PERFORMANCE

- Mating cycles (durability): 50-Gold, 25-Tin
- Insertion force:
 - 450gf max. per gold contact
 - 500gf max. per tin-lead contact
- Withdrawal force:
 - 30gf min. per gold contact
 - 30gf min. per tin-lead contact
- Insertion depth:
 - 4.85 mm (.191in.) min. [provides 3.81 mm (.015in.) wipe] – Low profile

ELECTRICAL PERFORMANCE

- Current Rating: 2.5A max. per contact
- Insulation Resistance: 50,000MΩ min.
- Contact Resistance: 15mΩ max. initial, 20mΩ max. after environmental tests
- Dielectric Withstanding Voltage: 800V

SPECIFICATIONS

-  File No. E66906
-  File No. LR46923
- Product Drawing: By 5-digit base part number
- Product Specification:
 - BUS-12-071-gold
 - BUS-12-070-tin

ENVIRONMENTAL

- Operating Temperature Range: -65°C to +125°C

APPROVALS & CERTIFICATION

- This product is RoHS compatible according to the European Union Directive 2002/95/IEC

PACKAGING

- Plastic bags

TARGET MARKETS/APPLICATIONS



Personal Care Devices (Air Dryer)
Home Care Devices (Cleaning Robot)
Home Automation (Alarm System)

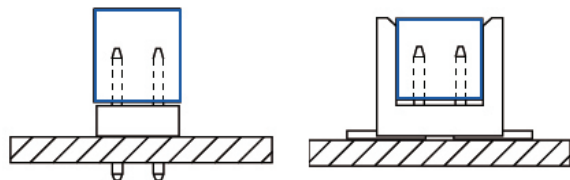


Server
Storage



Industrials (Robotics, PLC, Power tool)

TYPICAL APPLICATIONS



PART NUMBERS

Description	Part Series
Shunt Low Profile, Single Row	68786
Shunt Low Profile, Double Row, Multi-position	69145
Shunt Standard, Single Row	63429

Find part number details using the search box on www.amphenol-cs.com

PART NUMBER SELECTOR SHUNTS

CORE RANGE

Find part number details using the search box on www.amphenol-cs.com

68786 — 202LF

LOW PROFILE

Find part number details using the search box on www.amphenol-cs.com

68786 — X 02 — LF

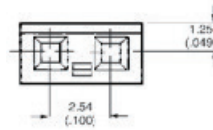
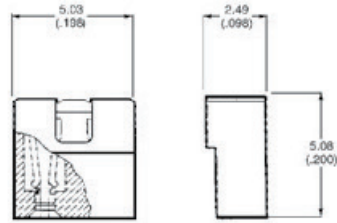
BASE PART NUMBER

Lead-free compatibility

Plating Option

2	0.76µm GXT® on contact area
3	2µm tin on contact area

Other plating options available upon request



MULTI-POSITION

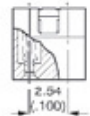
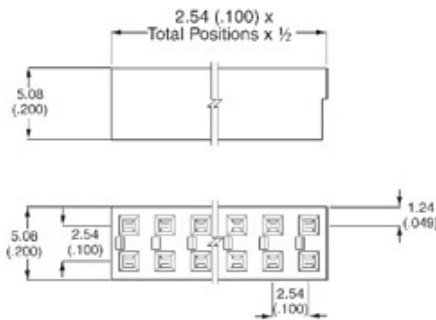
Find part number details using the search box on www.amphenol-cs.com

69145 — X XX — LF

BASE PART NUMBER

Lead-free compatibility

Number of positions
(04 to 20 positions)



STANDARD

Find part number details using the search box on www.amphenol-cs.com

63429 — X 02 — LF

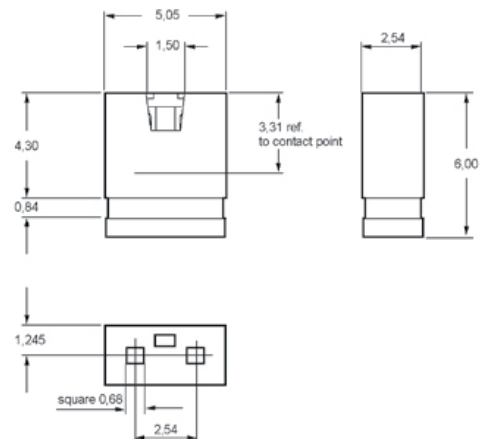
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