

# 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 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)

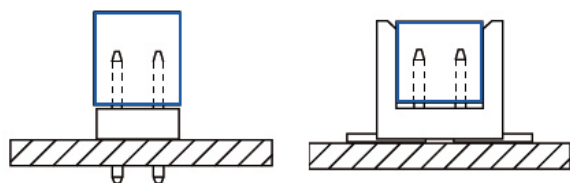


Server  
Storage



Industrials (Robotics, PLC, Power tool)

## TYPICAL APPLICATIONS



## PART NUMBERS

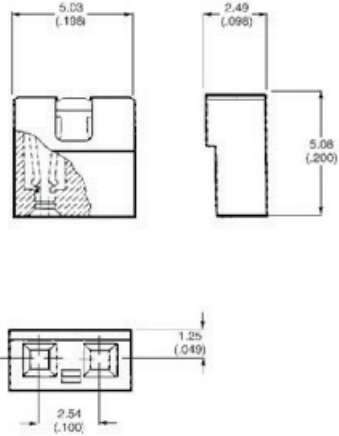
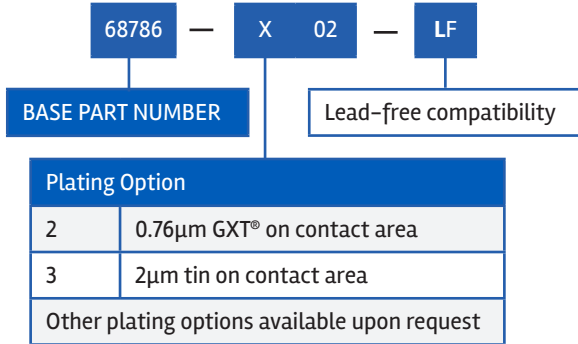
Description	Part Series
Shunt Low Profile, Single Row	68786
Shunt Low Profile, Double Row, Multi-position	87606
Shunt Standard, Single Row	63429

# PART NUMBER SELECTOR SHUNTS

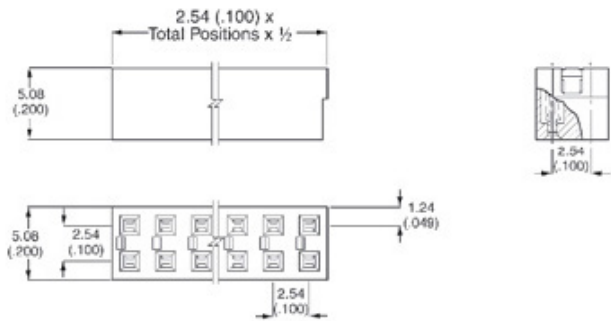
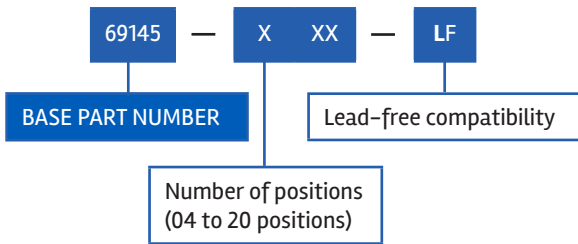
## CORE RANGE

68786 — 202LF

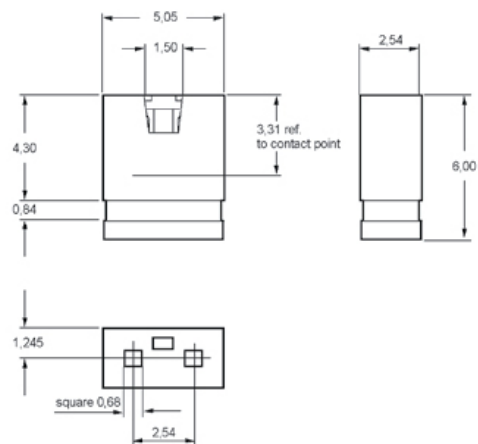
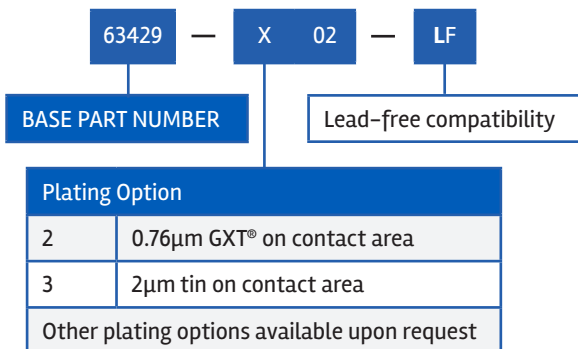
## LOW PROFILE



## MULTI-POSITION



## STANDARD



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