

Dubox® PCB Receptacles

MODULAR, RELIABLE, AND COMPACT SOLUTION

The Dubox® connector families offer an extensive range of through-hole and surface-mount part options, including single or double-row in either vertical or right angle orientation from 2 to 50 positions per row, with a current rating of 3A (maximum) per individual contact.

The Dubox® contact has a pre-stressed, dual beam design to enable low insertion force, 4-wall contact design for signal protection, and supports up to 200 mating cycles (plating dependent).

- Uniform dual-beam design across the range
- High-temperature material
- Mezzanine and coplanar connectivity
- Fully compatible with standard BergStik® headers



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 performing raw material
- Compliant to DIN 41651 specifications, HE 13 and BT D2632

BENEFITS

- Highly reliable electrical performances
- Low insertion force required
- Meets your specific needs and is useful for Mezzanine application
- 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 thermoplastic
- Contact: Phosphor Bronze
- Plating: 0.76 µm (30 µin) Gold / GXT® over 1.27 µm (50 µin) Nickel or 2.0 µm matte Tin full plated

MECHANICAL PERFORMANCE

- Contact Normal Force: 0.6N
- Insertion Force per Gold Contact: 1.50 N (150 gf) max.
- Withdrawal Force per Gold Contact: 0.30 N (30 gf) min.
- Contact Wiping Length: 1.5 mm
- 200 Mating Cycles (Gold plating)

ELECTRICAL PERFORMANCE

- Current Rating: 3 A continuous
2ADC max. per contact for fully energized connector
- Insulation Resistance: 1 x 10⁵ MΩ min.
- Voltage Rating: 110 V
- Dielectric Withstanding Voltage: 1000 Vrms min.
- Contact Resistance: 15 mΩ max. dielectric
20 MΩ max. after environmental tests

ENVIRONMENTAL

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

SPECIFICATIONS

- Product Specification: BUS-12-055 (Gold) / BUS-12-066 (Tin)

APPROVALS & CERTIFICATION

- UL Approval: E66906

PACKAGING

- Polybags, Tubes or Reel

TARGET MARKETS/APPLICATIONS



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



Server
Storage



Industrials (Robotics, PLC, Power Tool)



- ✓ Short lead-times
- ✓ Low MOQ's
- ✓ Quick sampling
- ✓ Available at disty

PART NUMBERS

Description	Part Numbers	Preferred Parts
Receptacle, Vertical, Single Row, TMT, Top Entry, Low Profile 7.00mm height	76341	✓
Receptacle, Vertical, Double Row, TMT, Top Entry, Low Profile 7.00mm height	76342	✓
Receptacle, Vertical, Single Row, TMT, Dual Entry	77424	
Receptacle, Vertical, Double Row, TMT, Dual Entry	89847	
Receptacle, Vertical, Single Row, SMT, Dual Entry, Low Profile 7.00mm height	91601	✓
Receptacle, Vertical, Double Row, SMT, Dual Entry, Low Profile 7.00mm height	89898	✓
Receptacle, Right-Angle, Single Row, TMT	89882	
Receptacle, Right-Angle, Double Row, TMT	89883	
Receptacle, Right-Angle, Single Row, SMT	71607	
Receptacle, Right-Angle, Double Row, SMT	71609	

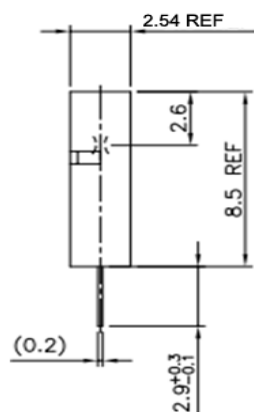
Find part number details using the search box on www.amphenol-cs.com

PART NUMBER SELECTOR PCB RECEPTACLE

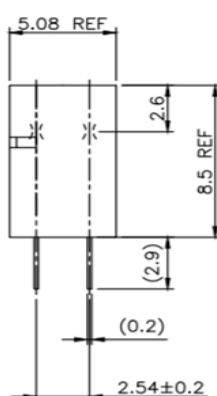
76341		—	Y	XX	—	LF	Lead-free compatibility
BASE PART NUMBER							
		Packaging Option					
		-					
		Polybag or Tube according to availabilities					
		A					
		Tape & reel with pick up cap according to availabilities					
		Number of positions per row					

Plating Option	
3	0.76µm GXT on contact area
4	2µm tin on contact area
Other plating options available upon request	

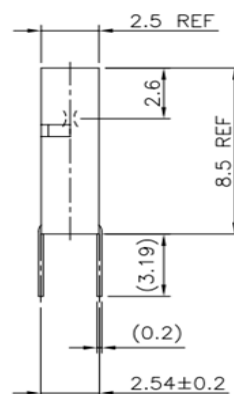
Example: 76341-307LF



76341

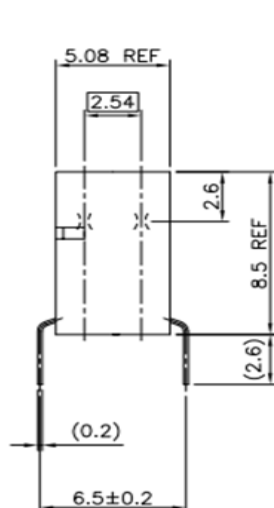


76342

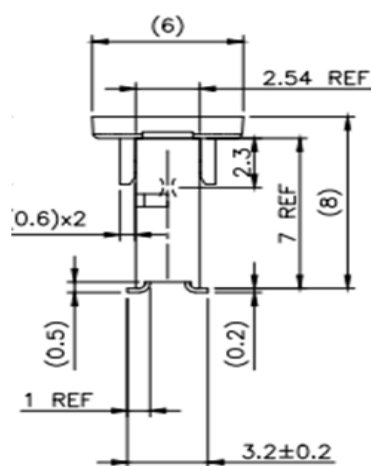


77424

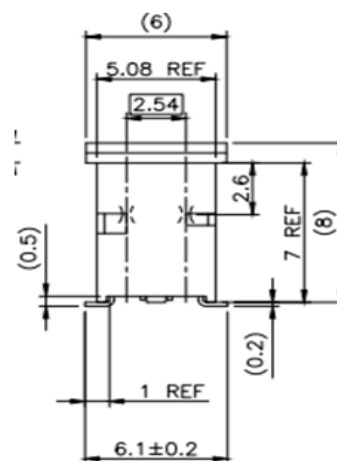
Add basic dimensions to the low Profile version (like distance between tails and tail length)



89847

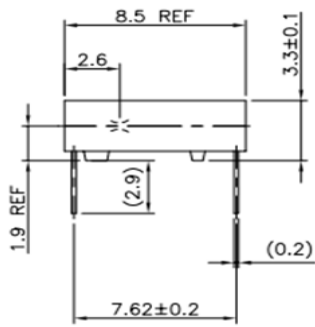


91601

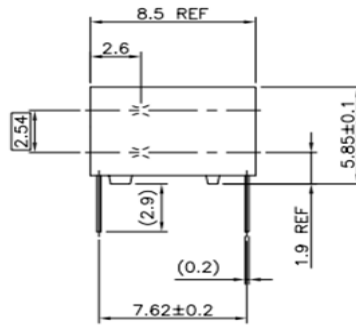


89898

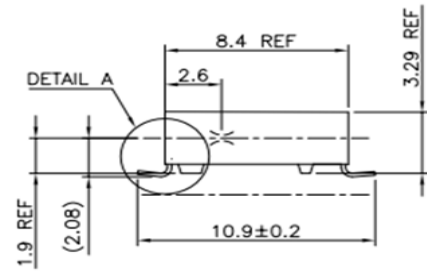
Dubox® PCB Receptacles



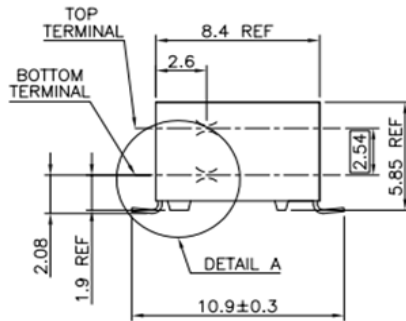
89882



89883



71607



71609

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