PC Board Sockets

Surface Mount, Single Piece construction

A choice of twin-beam or 3 contact beams, ultra low profile Surface Mount PCB Contacts, designed for automated assembly processes.

Single part construction, with flat upper surface for pick and place location to the PCB - supplied in Tape and Reel packaging.

Each contact type provides a wide range of mating pin sizes, for greater design flexibility.

Ultra-Low profile.

- Suitable for high volume applications with automated SMT systems.
- Reduces process costs with the elimination of secondary socket soldering operations.

Specifications

Materials

Base material Twin Beam: 3-Beam:

Phosphor Bronze Beryllium Copper See individual pages

: Electrical

Current

Finish:

Twin Beam Ø0.8-1.5mm: Twin Beam Ø1.1-1.8mm: 3-Beam Contact resistance:

5A max 9A max 6A max 20mΩ max

Mechanical

Durability

Twin Beam Ø0.8-1.5mm: Twin Beam Ø1.1-1.8mm: 3-Beam:

Insertion force (max) Twin Beam Ø0.8-1.5mm: Twin Beam Ø1.1-1.8mm: 3-Beam Ø1.5-1.9mm: 3-Beam Ø0.8-1.3mm:

Withdrawal force (min) Twin Beam Ø0.8-1.5mm: Twin Beam Ø1.1-1.8mm: 3-Beam Ø1.5-1.9mm: 3-Beam Ø0.8-1.3mm:

Environmental

Twin Beam: 3-Beam: Solderability: Soldering heat resistance:

25 operations 100 operations 500 operations

8.0N (Ø1mm), 17.0N (Ø1.5mm) 2.8N (Ø1.1mm), 4.5N (Ø1.8mm) 3.5N (Ø1.5mm), 17.0N (Ø1.9mm) 3.0N (Ø0.8mm), 6.0N (Ø1.3mm)

0.5N (Ø1mm), 1.0N (Ø1.5mm) 0.3N (Ø1.1mm), 0.5N (Ø1.8mm) 0.5N (Ø1.5mm), 1.5N (Ø1.9mm) 1.0N (Ø0.8mm), 2.0N (Ø1.3mm)

Operating temperature

-40°C to +105°C -50°C to +125°C 235°C for 5 seconds 260°C for 10 seconds

Throughboard, Two Piece construction

A range of 4-beam and 6-beam (also known as fingers) sockets, designed for robustness and reliability, and based on the same design as the Datamate and M300 four finger Bervllium Copper contacts.

The socket design is a two-part construction comprising of a contact clip retained in a precision-turned outer shell.

Options for the shell include closed or open-ended, with or without a knurled section for added board retention

- High reliability contacts. Proven history in high end Industrial and Mil/Aero applications.
- Suited for use in environments where high vibration, shock and extremes of temperature are a consideration.
- Gives the added flexibility of custom board layouts.

Materials	
Outer shell: Inner contact: Finish:	Brass Beryllium Copper See individual pages
> Electrical	
Current Ø0.50mm: Ø0.80mm, Ø1.00mm: Ø2.00mm: Contact resistance:	2A max 10A max 20A max 25mΩ max
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Durability Ø0.50, Ø2.00mm: Ø0.80, Ø1.00mm: Insertion force (max) Ø0.50, Ø2.00mm: Ø0.80mm: Ø1.00mm:	500 operations 1,000 operations 6.0N 5.0N 9.0N
Withdrawal force (min) Ø0.50mm: Ø0.80, Ø1.00, Ø2.00mm: Vibration sensitivity:	0.5N 1.0N 10 – 2,000Hz, 0.75mm, 98m/s² (10G), 6 hours duration
Environmental	
Operating temperature:	-55°C to +125°C

С Solderability: Soldering heat resistance: 235°C for 5 seconds 260°C for 10 seconds



SOCKETS