

smiths connectors

DOVETAIL CONNECTOR SERIES

CONFIGURABLE INTERCONNECT SOLUTIONS



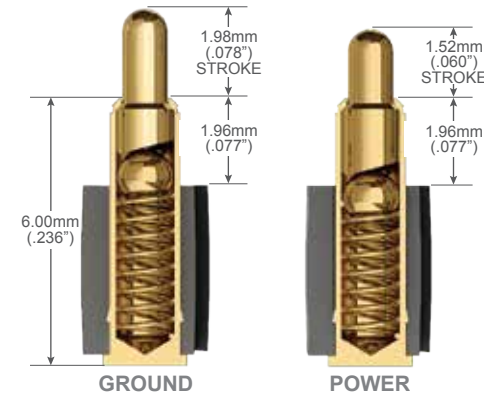
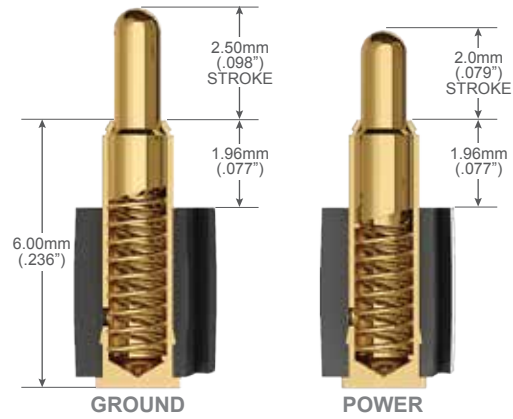
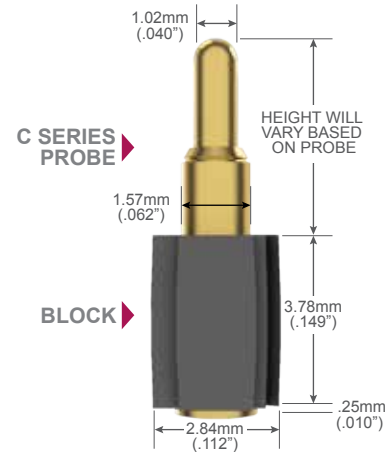
PROBE OPTIONS

4 mm
COMPRESSED HEIGHT

6 mm
COMPRESSED HEIGHT

6 mm BIAS BALL
COMPRESSED HEIGHT

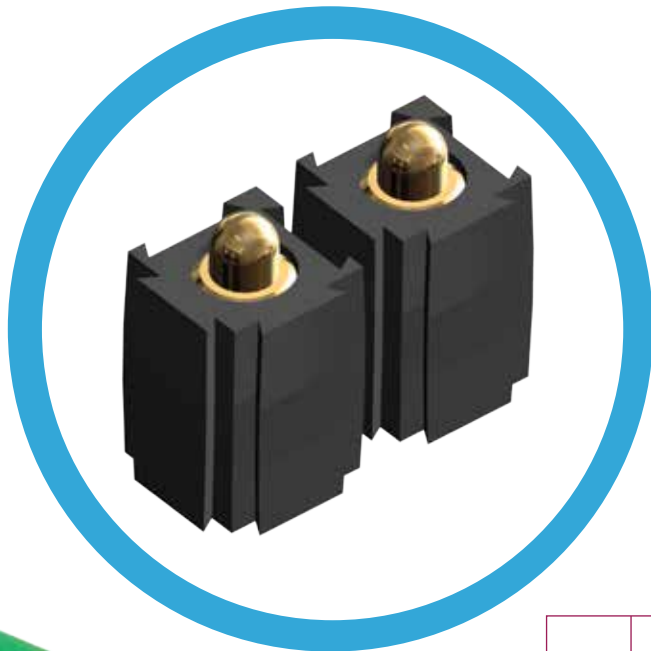
TERMINATIONS



FEATURES & BENEFITS

Smiths Connectors' new Dovetail Connector Series features C Series Probes, renowned for their incomparable shock and vibration performance, housed in a patent pending block design. The symmetrical blocks interlock to allow for simple configuration into any imaginable X-Y pattern. A multitude of probe options permit the benefits of a custom connector design such as intermixing of power and ground functions within the same array. Available for immediate delivery with no tooling required, the Dovetail Connector eliminates the time and expense associated with typical prototype and low to medium volume manufacturing activities.

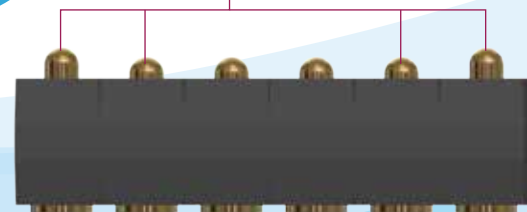
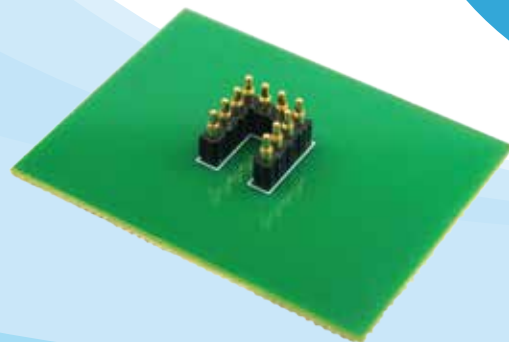
- ▶ **IMMEDIATE DELIVERY**
Ideal for high mix, low to medium volume manufacturing scales
- ▶ **CUSTOM CONFIGURATIONS**
Available individually or pre-configured to meet application specific requirements



DOVETAIL CONNECTOR SERIES

Patent Pending

- ▶ **DOVETAIL DESIGN**
Interlocking features permit population to a wide range of footprints
- ▶ **PROBE DIVERSITY**
A variety of termination styles, signal path lengths and performance functions are accommodated within a uniform block design



PROBE SPECIFICATIONS

4 mm Compressed Height
Pitch: 2.54mm (.100")
Typical Resistance: < 10 mΩ
Current Rating*: 10 amps continuous
Spring Force: 85g (3.0 oz) @ working travel

6 mm Compressed Height
Pitch: 2.54mm (.100")
Typical Resistance: < 10 mΩ
Current Rating*: 10 amps continuous
Spring Force: 82g (2.9 oz) @ working travel

6 mm Bias Ball Compressed Height
Pitch: 2.54mm (.100")
Typical Resistance: < 10 mΩ
Current Rating*: 15 amps continuous
Spring Force: 130g (4.6 oz) @ working travel

*Current ratings typical of single probe in ambient environment

DURABILITY

- ▶ Consistent performance across broad temperature ranges
- ▶ Perfect for RF, high speed and mixed signal connections
- ▶ Minimal insertion and return loss for signals up to 10 GHz
- ▶ Superior continuity in high shock and vibration environments
- ▶ Consistent, low resistance through tens of thousands of connections

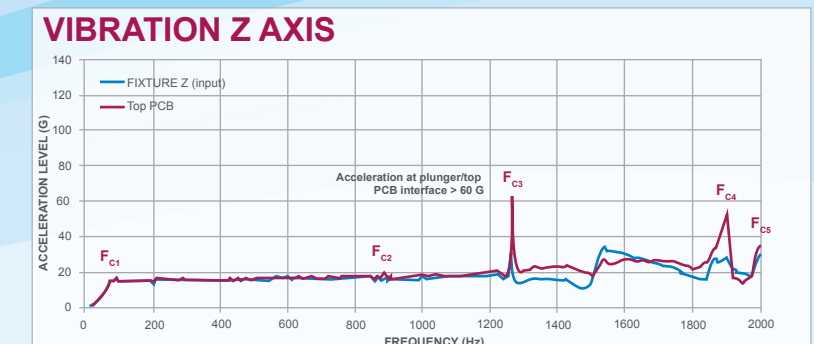
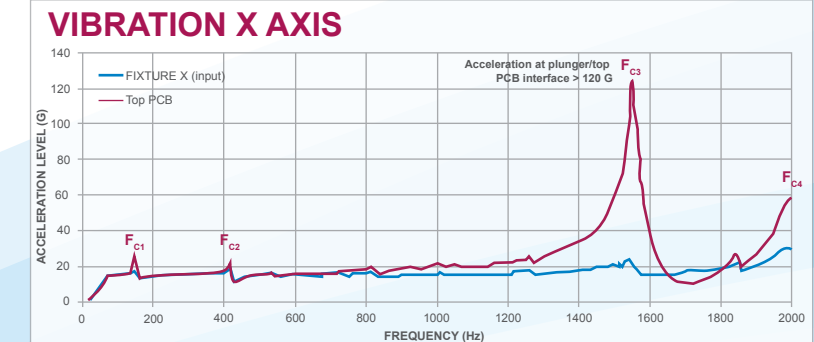
PERFORMANCE

SHOCK & VIBRATION TESTING

Smiths Connectors' advanced C Series Probes offer exceptional compliance and design flexibility in a wide range of applications. To enhance the capability of the series in military applications, a version was developed which uses a bias ball design to guarantee electrical performance especially in terms of vibration and shock.

Thorough shock and vibration testing revealed that the C Series Probes passed vibrations tests >15G and shock tests >50G regardless of the internal biasing technology. During the resonance frequencies testing, the 15G input resulted in levels up to 120G (Radial direction) and 60G (Axial direction) at the interface between PCB and spring probe plunger.

After more than 10 hours of vibration and shock testing, the contact surfaces of the spring probe tip and PCB are still free of any wearing or fretting corrosion with near perfect surface finish.



* See back for ordering information

HOW TO ORDER



1 ▶ **DOVETAIL CONNECTOR SERIES** [Fixed]

2 ▶ **C SERIES PROBE** [Fixed]

3 ▶ **CURRENT**

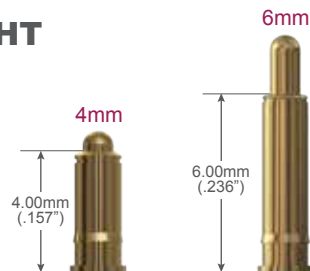
- G** GROUND
- P** POWER



4 ▶ **2.5mm (.100") PITCH** [Fixed]

5 ▶ **COMPRESSED HEIGHT**

- 4** 4mm
- 6** 6mm



6 ▶ **TERMINATION**

- SM** SURFACE MOUNT
- TH** THRU HOLE
- SC** SOLDER CUP*

SURFACE MOUNT THRU HOLE SOLDER CUP



7 ▶ **BIASING TECHNIQUE***

- BB** BIAS BALL [6mm option only]

BIAS BALL



*omit for standard versions

smiths connectors

FOR MORE INFORMATION | smithsconnectors.com |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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