

smiths connectors

# DOVETAIL CONNECTOR SERIES

*CONFIGURABLE INTERCONNECT SOLUTIONS*



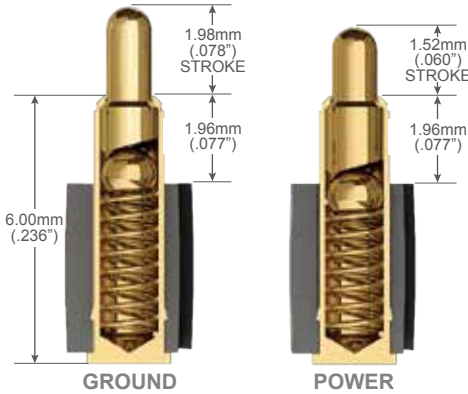
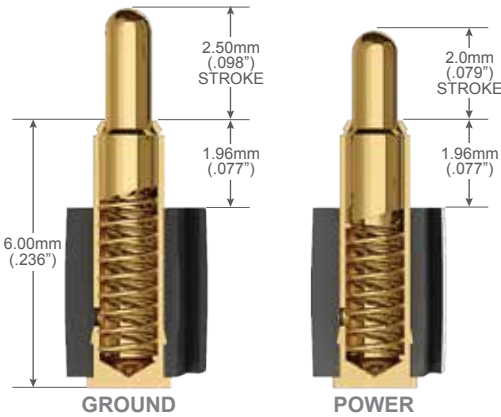
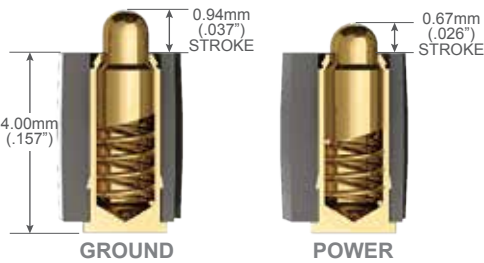
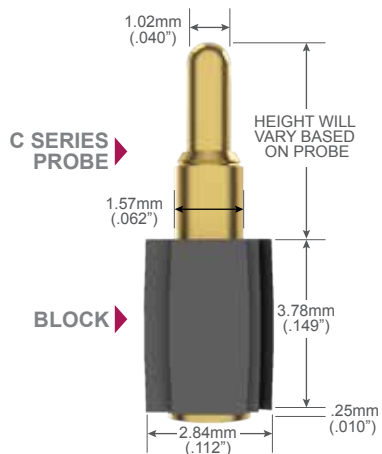
PROBE OPTIONS

4 mm  
COMPRESSED HEIGHT

6 mm  
COMPRESSED HEIGHT

6 mm BIAS BALL  
COMPRESSED HEIGHT

TERMINATIONS

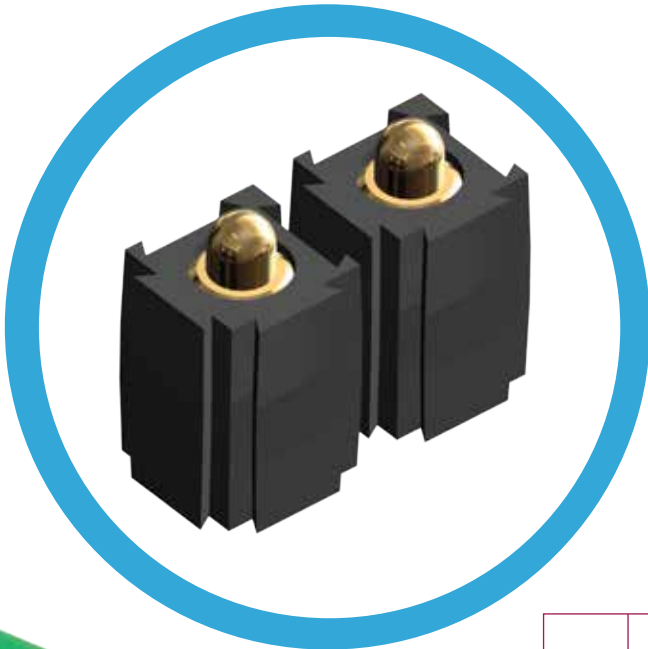


FEATURES & BENEFITS

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.

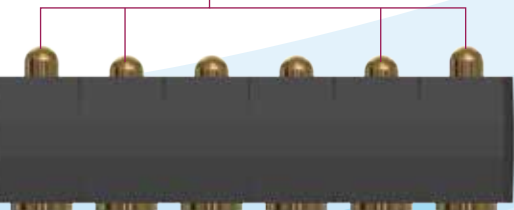
► **IMMEDIATE DELIVERY**  
Ideal for high mix, low to medium volume manufacturing scales

► **CUSTOM CONFIGURATIONS**  
Available individually or pre-configured to meet application specific requirements



► **DOVETAIL 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



DOVETAIL  
CONNECTOR SERIES

Patent Pending

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

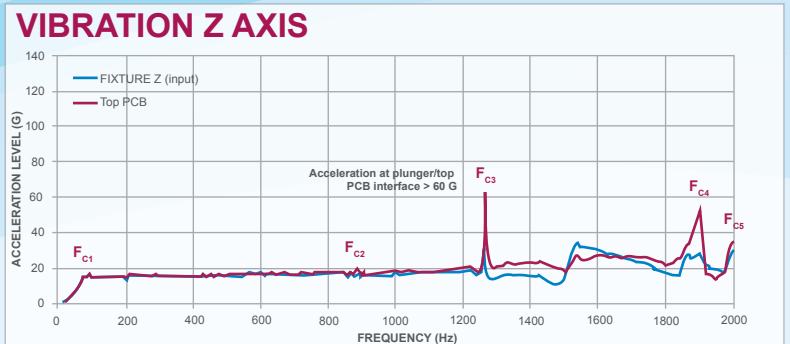
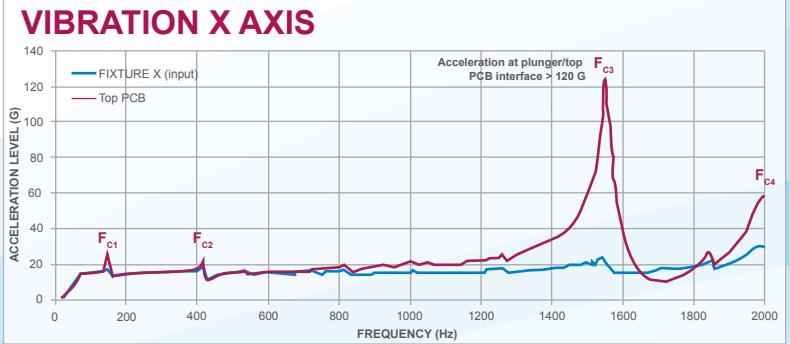
PERFORMANCE

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

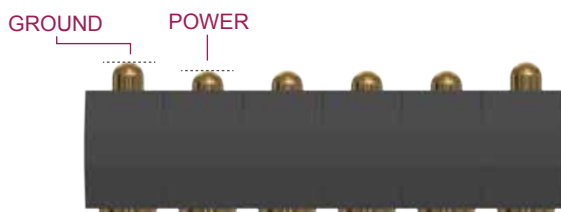


**1** ▶ **DOVETAIL CONNECTOR SERIES** [Fixed]

**2** ▶ **C SERIES PROBE** [Fixed]

**3** ▶ **CURRENT**

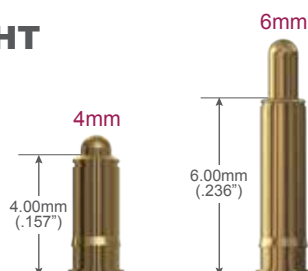
**G** GROUND  
**P** POWER



**4** ▶ **2.5mm (.100") PITCH** [Fixed]

**5** ▶ **COMPRESSED HEIGHT**

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



**6** ▶ **TERMINATION**

**S M** SURFACE MOUNT  
**T H** THRU HOLE  
**S C** SOLDER CUP\*

SURFACE MOUNT THRU HOLE SOLDER CUP



\*20 gage maximum wire diameter

**7** ▶ **BIASING TECHNIQUE\***

**B B** BIAS BALL [6mm option only]

BIAS BALL



\*omit for standard versions

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FOR MORE INFORMATION | [smithsconnectors.com](http://smithsconnectors.com) |    

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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