

Amphenol[®] RF

Global RF Solutions

FEATURES & BENEFITS

Smaller Package Size

Higher Frequency Range

- SMP: typically used to 20 GHz
- SMPM: typically used to 40 GHz

Compensate for Radial and Axial Misalignment

APPLICATIONS

Aerospace

Board-to-Board Interconnect

Broadband

Instrumentation

Mil/Aero

Optical Nodes and Routers

Phased Array Antennas

Telecommunications



SMP Connectors

SMP Connectors DC to 40GHz

Amphenol RF offers a solution for high frequency, high data rate applications in the SMP and SMPM (Mini-SMP) line of RF connectors. SMP connectors provide microwave performance through 40 GHz and offer a push-on, high performing microwave interconnect system.

The available detent systems, full and limited, provide respective levels of engagement/disengagement forces. This family of interconnects addresses all package design needs. Outside of microwave performance it can be utilized as a highly shielded interconnect for high data rate applications or in a board-to-board system using a floating bullet. This floating bullet provides a link between mated pairs compensating for both radial and axial misalignment. Available in a cable-to-board mated pair, the plug side can be provided in either right angle or straight with termination capability to either 0.047" or 0.086", semi-rigid or conformable coax. The receptacles are designed for surface-mount termination (SMT) or through hole, end launch for board edge or vertical mount.

Specification

Conditions

Electrical

| | | |
|-----------------|-------------|------------|
| Impedance | 50 Ω | |
| Frequency Range | DC – 40 GHz | |
| VSWR | < 1.50 | 0 - 20 GHz |

Mechanical

| | |
|---------------------|---|
| Engagement Force | Limited Detent 10lbs. (44.5 N) max |
| Disengagement Force | Limited Detent 5lbs. (22.25 N) min |
| Mating Cycles | 100 with full detent; > 500 with limited detent |
| Radial Float | .020 in total |
| Axial Float | .010 in total |

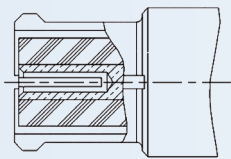
Environmental

| | |
|-------------------|-----------------|
| Temperature Range | -65°C to +155°C |
|-------------------|-----------------|

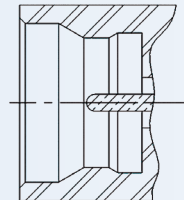
Part Number

Description

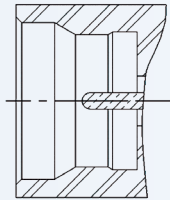
| | |
|-----------------|---|
| SMP-FSBA-645 | Bullet (female-to-female), 6.45mm |
| SMP-FSBA-990 | Bullet (female-to-female), 9.90mm |
| SMP-FSBA-145 | Bullet (female-to-female), 14.5mm |
| SMP-FSBA-224 | Bullet (female-to-female), 22.4mm |
| SMP-FS-C06 | Straight Cable (female), to .047 S/R |
| SMP-FS-C07 | Straight Cable (female), to .086 S/R |
| SMP-FR-C06 | R/A Cable (female), to .047 S/R |
| SMP-FR-C07 | R/A Cable (female), to .086 S/R |
| SMP-MSCM-PCT | Straight PCB (male), Thru-Hole Catcher's Mitt |
| SMP-MSFD-PCT* | Straight PCB (male), Thru-Hole Full Detent |
| SMP-MSLD-PCT* | Straight PCB (male), Thru-Hole Limited Detent |
| SMP-MSSB-PCT* | Straight PCB (male), Thru-Hole Smooth Bore |
| SMP-MSCM-PCS* | Straight PCB (male), Surface Mount Catcher's Mitt |
| SMP-MSFD-PCS* | Straight PCB (male), Surface Mount Full Detent |
| SMP-MSLD-PCS* | Straight PCB (male), Surface Mount Limited Detent |
| SMP-MSSB-PCS-1* | Straight PCB (male), Surface Mount Smooth Bore |
| SMP-MSCM-PCR* | Straight PCB (male), Rear Mount Catcher's Mitt |
| SMP-MSFD-PCR* | Straight PCB (male), Rear Mount Full Detent |
| SMP-MSLD-PCR* | Straight PCB (male), Rear Mount Limited Detent |
| SMP-MSSB-PCR* | Straight PCB (male), Rear Mount Smooth Bore |
| SMP-MSCM-PCE* | Straight PCB (male), Edge Mount Catcher's Mitt |
| SMP-MSFD-PCE* | Straight PCB (male), Edge Mount Full Detent |
| SMP-MSLD-PCE* | Straight PCB (male), Edge Mount Limited Detent |
| SMP-MSSB-PCE* | Straight PCB (male), Edge Mount Smooth Bore |



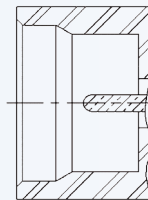
Female



Male Limited Detent



Male Full Detent



Smooth Bore

*Contact Factory for Availability

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Rev. C

Amphenol®RF
 Global RF Solutions

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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