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





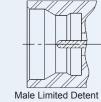
SMP Connectors DC to 40GHz

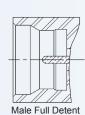
Amphenol RF offers a solution for high frequency, high data rate applications in the SMP and SMPM (Mini-SMP) line of RF connectors. SMP connectors provide microwave performance through 40 GHz and offer a push-on, high performing microwave interconnect system.

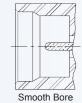
The available detent systems, full and limited, provide respective levels of engagement/disengagement forces. This family of interconnects addresses all package design needs. Outside of microwave performance it can be utilized as a highly shielded interconnect for high data rate applications or in a 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 Frequency Range VSWR	50 Ω DC – 40 GHz < 1.50	0 - 20 GHz
MechanicalEngagement ForceDisengagement ForceMating CyclesRadial FloatAxial FloatEnvironmentalTemperature Range	Limited Detent 10lbs. (4 Limited Detent 5lbs. (22 100 with full detent; > 50 .020 in total .010 in total -65°C to +155°C	.25 N) min
Part Number	Descrip	otion
SMP-FSBA-645 SMP-FSBA-990 SMP-FSBA-145 SMP-FSBA-224 SMP-FS-C06 SMP-FS-C07 SMP-FR-C07 SMP-MSCM-PCT SMP-MSCD-PCT* SMP-MSLD-PCT* SMP-MSLD-PCT* SMP-MSLD-PCS* SMP-MSLD-PCS* SMP-MSLD-PCS* SMP-MSLD-PCS* SMP-MSLD-PCR* SMP-MSLD-PCR* SMP-MSLD-PCR* SMP-MSLD-PCR* SMP-MSCM-PCE* SMP-MSCM-PCE* SMP-MSCD-PCE* SMP-MSLD-PCE* SMP-MSLD-PCE*	Bullet (female Bullet (female Bullet (female Bullet (female Straight Cable Straight Cable R/A Cable (fer R/A Cable (fer Straight PCB Straight PCB	-to-female), 6.45mm -to-female), 9.90mm -to-female), 14.5mm -to-female), 22.4mm e (female), to .047 S/R e (female), to .047 S/R male), Thru-Hole Catcher's Mitt (male), Thru-Hole Full Detent (male), Thru-Hole Full Detent (male), Surface Mount Catcher's M (male), Surface Mount Catcher's M (male), Surface Mount Limited Detent (male), Surface Mount Limited Detent (male), Surface Mount Catcher's Mitt (male), Rear Mount Smooth Bore (male), Edge Mount Catcher's Mitt (male), Edge Mount Catcher's Mitt (male), Edge Mount Limited Detent (male), Edge Mount Limited Detent
	KKKA A	









*Contact Factory for Availability

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