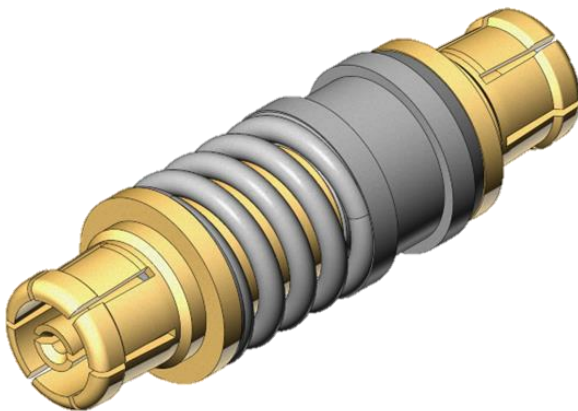


Series: In-Series Adapter, 50 Ω



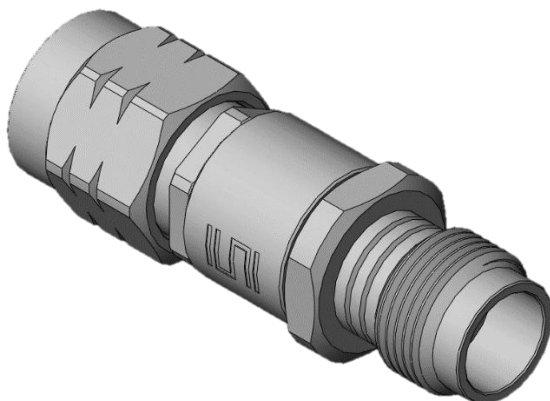
PRFIA-SMPM-J-J-S-X

- SERIES
 - M0: SMPM
- GENDER
 - J: JACK
- GENDER
 - J: JACK
- OPTION
 - 1: .210"(5.33MM)
 - 2: .327"(8.31MM)
 - 3: .500"(12.70MM)
 - 4: .166"(4.22MM)
- ORIENTATION
 - S: STRAIGHT



PRFIA-SMPM-J-J-SP-X

- SERIES
 - M0: SMPM
- GENDER
 - J: JACK
- GENDER
 - J: JACK
- OPTION
 - 1: .412"
 - 2: .650"
- ORIENTATION
 - SP: SPRING



PRFIA-XXX-X-X-S-X

- ADAPTER TYPE
 - IA: IN-SERIES ADAPTER
- SERIES
 - 185: 1.85mm
 - 240: 2.4 mm
 - 292: 2.92 mm
- OPTION
 - 1 (APPLICABLE TO 292-J-J ONLY)
- ORIENTATION
 - S: STRAIGHT
- END 2 GENDER
 - P: PLUG
 - J: JACK
- END 1 GENDER
 - P: PLUG
 - J: JACK

Series: In-Series Adapter, 50 Ω

MATERIAL AND FINISHES

Series	Connector part	Material	Finish
SMPM	Shell	Beryllium Copper	Gold over Nickel
	Socket	Beryllium Copper	Gold over Nickel
	Bead	PTFE Fluorocarbon	N/A
	Bushing (Spring bullets)	Stainless Steel	Passivated
	Spring (Spring bullets)	Stainless Steel	Passivated
1.85/2.4/2.92 mm	Body	Stainless steel	Passivation
	Contact	Beryllium Copper	Gold
	Insulator	PEI	N/A

ELECTRICAL DATA

Impedance	50 Ω	
Frequency Range	SMPM	DC to 65 GHz
	1.85 mm series	DC to 67 GHz
	2.4 mm series	DC to 50 GHz
	2.92 mm series	DC to 40 GHz
VSWR	SMPM	DC to 26.5 GHz: 1.15:1 MAX 26.5 GHz to 40 GHz: 1.35:1 MAX 40 GHz to 65 GHz: 1.50:1 MAX
	1.85 mm series	1.3:1 MAX
	2.4 mm series	1.2:1 MAX
	2.92 mm series	1.15:1 MAX
Insertion Loss	SMPM	$0.07 \times \sqrt{FREQ(GHz)} \text{ dB MAX}$
	1.85 mm series	$0.08 \times \sqrt{MAX FREQ(GHz)} \text{ dB MAX}$
	2.4/2.92 mm series	$0.05 \times \sqrt{MAX FREQ(GHz)} \text{ dB MAX}$
LLCR - Center Contact	SMPM	<6.0 m Ω
LLCR - Outer Contact	SMPM	<2.0 m Ω
Dielectric Withstanding Voltage (DWV)	SMPM	325 VRMS MIN
	1.85/2.4/2.92 mm series	500 VDC MIN

Series: In-Series Adapter, 50 Ω

ELECTRICAL DATA

Insulation Resistance	SMPM	5,000 M Ω MIN
	1.85/2.4/2.92 mm series	3,000 M Ω MIN
Voltage Rating @ Sea Level	SMPM	250 VRMS MAX
Voltage Rating	1.85 mm series	250 VRMS MAX
	2.4/2.92 mm series	335 VRMS MAX

MECHANICAL DATA

Interface	SMPM	I.A.W. MIL-STD-348
	1.85 mm series	IEC 61169
	2.4/2.92 mm series	MIL-STD-348A
Durability	SMPM	Full Detent: 100 Cycles MIN Smooth Bore: 500 cycles MIN
	1.85/2.4 mm series	500 cycles MIN
	2.92 mm, Plug to plug	
	2.92 mm, Plug to jack	300 cycles MIN
	2.92 mm, Jack to jack	
Center Contact Retention	SMPM	1.5 lbs. MIN
	1.85/2.4/2.92 mm series	6 lbs. MIN
Engagement Force	SMPM	Full Detent: 8 lbs. MAX Smooth Bore: 4 lbs. MAX
Disengagement Force	SMPM	Full Detent: 3.0 lbs. MIN Smooth Bore: 0.5 lbs. MIN

ENVIRONMENTAL DATA

Temperature Range	SMPM	-65 to +165°C
	1.85/2.4/2.92 mm series	-40 to +125°C
Thermal Shock	SMPM	EIA-364-32, -55 to +125°C, 100 Cycles
Vibration	SMPM	EIA-364-28, Condition V-B, 2 hrs./axis
Mechanical Shock	SMPM	EIA-364-27, Condition G

Series: In-Series Adapter, 50 Ω **REFERENCED DOCUMENTS**

Description	Drawing
5.33 mm SMPM Bullet	PRFIA-SMPM-J-J-S-1 Drawing
8.31 mm SMPM Bullet	PRFIA-SMPM-J-J-S-2 Drawing
12.7 mm SMPM Bullet	PRFIA-SMPM-J-J-S-3 Drawing
4.22 mm SMPM Bullet	PRFIA-SMPM-J-J-S-4 Drawing
.412" SMPM Spring Bullet	PRFIA-SMPM-J-J-S-SP-1 Drawing
.650" SMPM Spring Bullet	PRFIA-SMPM-J-J-S-SP-2 Drawing
1.85 mm, Plug to plug	PRFIA-185-P-P-S Drawing
1.85 mm, Plug to jack	PRFIA-185-P-J-S Drawing
1.85 mm, Jack to jack	PRFIA-185-J-J-S Drawing
2.4 mm, Plug to plug	PRFIA-240-P-P-S Drawing
2.4 mm, Plug to jack	PRFIA-240-P-J-S Drawing
2.4 mm, Jack to jack	PRFIA-240-J-J-S Drawing
2.92 mm, Plug to plug	PRFIA-292-P-P-S Drawing
2.92 mm, Plug to jack	PRFIA-292-P-J-S Drawing
2.92 mm, Jack to jack	PRFIA-292-J-J-S-1 Drawing

USE OF PRODUCT SPECIFICATION SHEET

This Product Specification Sheet ("PSS") is a brief summary of information related to the Product identified. As a summary, it should only be used for the limited purpose of considering the purchase/use of Product. This PSS is the property of Samtec, Inc. ("Samtec") and contains proprietary information of Samtec, our various licensors, or both. Samtec does not grant express or implied rights or license under any patent, copyright, trademark or other proprietary rights and the use of the PSS for building, reverse engineering or replication is strictly prohibited. By using the PSS, the user agrees to not infringe, directly or indirectly, upon any intellectual property rights of Samtec and acknowledges that Samtec, our various licensors, or both own all intellectual property therein. The PSS is presented "AS IS". While Samtec makes every effort to present excellent information, the PSS is only provided as a guideline and does not, therefore, warrant it is without error or defect or that the PSS contains all necessary and/or relevant information about the Product. The user agrees that all access and use of the PSS is at its own risk. **NO WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY KIND WHATSOEVER ARE PROVIDED.**