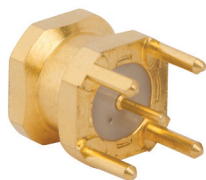


PSMP-MSLD-PCSEM



PSMP-FSBA-1755



PSMP-MSLD-PCT35



PSMP-MSSB-PCS

## Overview

Amphenol RF PSMP connectors are the perfect solution for board-to-board applications requiring high power. With a minimum board spacing of 12.6 mm, the three-piece design allows maximum flexibility for high-density board spacing, and is an ideal solution for blindmate situations.

PSMP connectors are the best combination of SMP performance and SMA power capability, in a compact package size. The PSMP has the exact same PCB footprint as the SMP, allowing for easy conversion of applications for higher power handling.

## Features and Benefits

- High Frequency operation up to 10 GHz
- 200 W @ 2.2GHz continuous power
- 12.6 mm minimum board spacing
- Axial misalignment: +/- 1 mm
- Snap-on coupling (Limited Detent Parts)

## Applications

- Base Stations
- Radios
- Filters
- Amplifiers
- Handheld Radio

## Amphenol RF

Four Old Newtown Road  
Danbury, CT 06810

For more information visit [www.amphenolrf.com](http://www.amphenolrf.com)  
or call 800.627.7100

## Ordering Information

### PSMP Limited Detent Connectors

PSMP-MSLD-PCT25	PSMP PCB Jack, Male Contact, Through-Hole 2.5mm Legs, Limited Detent, 50 Ohm
PSMP-MSLD-PCT35	PSMP PCB Jack, Male Contact, Through-Hole 3.5mm Legs, Limited Detent, 50 Ohm
PSMP-MSLD-PCT1R	PSMP PCB Jack, Male SMT R/A Contact, Through-Hole 1.0mm Legs, Limited Detent, 50 Ohm
PSMP-MSLD-PCTEM	PSMP PCB Jack, Male Contact, Through-Hole 2.5mm Legs, Limited Detent, EMI Ring, 50 Ohm
PSMP-MSLD-PCSEM	PSMP PCB Jack, Male Contact, Surface Mount, Limited Detent, EMI Ring, 50 Ohm
PSMP-MSLD-PCS	PSMP PCB Jack, Male Contact, Surface Mount, Limited Detent, 50 Ohm
PSMP-MSLD-PCE	PSMP PCB Jack, Male Contact, Edge Mount, Limited Detent, 50 Ohm
PSMP-MSLD-CSB	PSMP PCB Jack, Male Contact, Bulkhead Mount, Post Termination, Limited Detent, 50 Ohm

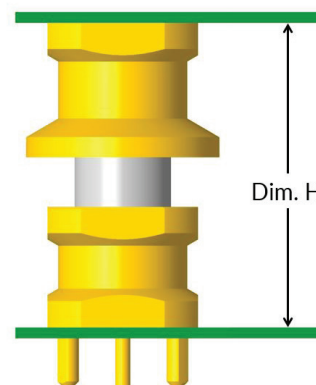
### PSMP Smooth Bore Connectors

PSMP-MSSB-PCT1R	PSMP PCB Jack, Male SMT R/A Contact, Through-Hole 1.0mm Legs, Smooth Bore, 50 Ohm
PSMP-MSSB-PCT35	PSMP PCB Jack, Male Contact, Through-Hole 3.5mm Legs, Smooth Bore, 50 Ohm
PSMP-MSSB-PCS	PSMP PCB Jack, Male Contact, Surface Mount, Smooth Bore, 50 Ohm
PSMP-MSSB-CSB	PSMP PCB Jack, Male Contact, Bulkhead Mount, Post Termination, Smooth Bore, 50 Ohm

### PSMP Bullet Adapters

#### Plug to Plug, Female Contact

PSMP-FSBA-1000	10.00 mm
PSMP-FSBA-1042	10.42 mm
PSMP-FSBA-1175	11.75 mm
PSMP-FSBA-1755	17.55 mm
PSMP-FSBA-1970	19.70 mm
PSMP-FSBA-2380	23.80 mm
PSMP-FSBA-2580	25.80 mm



Dim. H = Bullet Length + 2.6 mm

# Amphenol® RF

## Technical Specifications

Electrical data	
Impedance	50 $\Omega$
Frequency range	DC to 10 GHz
Return loss (cable connector straight)	$\geq 32$ dB @ DC to 3 GHz $\geq 26$ dB @ 3 GHz to 6 GHz
Insertion loss	$\leq 0.03 \times \text{SQRT}[f \text{ (GHz)}]$ dB
Insulation resistance	$\geq 5$ G $\Omega$
Center contact resistance	$\leq 3$ m $\Omega$
Outer contact resistance	$\leq 2$ m $\Omega$
Test voltage	1000 V rms
Working voltage	480 V rms
Power handling	200 W @ 2.2 GHz
Contact current	$\leq 15$ A DC
RF leakage - Interface	$\geq 75$ dB @ DC to 4 GHz
Intermodulation 3rd order	$\leq -160$ dBc (2 x 43 dBm)

Mechanical data	
Mating cycles	Full detent: $\geq 100$
	Limited detent: $\geq 100$
	Smooth bore, Catchers mitt: $\geq 1000$
Center contact captivation	Axial: $\geq 7$ N
Engagement force	Full detent: $\leq 68$ N
	Limited detent: $\leq 45$ N
	Smooth bore, Catchers mitt: $\leq 10$ N
Disengagement force	Full detent: $\geq 25$ N
	Limited detent: $\geq 15$ N
	Smooth bore, Catchers mitt: $\geq 2.2$ N
Axial misalignment	$\pm 1$ mm
Radial misalignment	4°
Board-to-board distance (min.)	12.6 mm (solder paste thickness not included)

Environmental data	
Temperature range	-65 °C to +165 °C
Thermal shock	IEC 60169-1, Sub-clause 16.4 (-65 °C to +165 °C)
Climatic category	IEC 60169-1, Sub-clause 18 (+165 °C, 1000 hours)
Vibration	IEC 60068-2-64 random
Shock	IEC 60068-2-27 (50g, 11 ms, half-sine)
Max. soldering temperature (PCB connectors)	IEC 61760-1, +260 °C for 10 sec.

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