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MSLD-PCE Datasheet

DiGi Electronics Part Number	PSMP-MSLD-PCE-DG
Manufacturer	Amphenol RF
Manufacturer Product Number	PSMP-MSLD-PCE
Description	CONN PSMP JACK STR 50OHM EDGEMNT

Detailed Description

PSMP Connector Jack, Male Pin 50 Ohms Board Edge, Cutout; Surface Mount Solder

This model PSMP-MSLD-PCE is available at DiGi Electronics.

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Purchase and inquiry

Manufacturer Product Number:

PSMP-MSLD-PCE

Series:

-

Connector Style:

PSMP

Contact Termination:

Solder

Impedance:

50 Ohms

Mounting Feature:

-

Fastening Type:

Snap-On

Number of Ports:

1

Housing Color:

Gold

Center Contact Material:

Brass

Body Material:

Brass

Manufacturer:

Amphenol RF

Product Status:

Active

Connector Type:

Jack, Male Pin

Shield Termination:

Solder

Mounting Type:

Board Edge, Cutout; Surface Mount

Cable Group:

-

Frequency - Max:

10 GHz

Features:

Limited Detent

Ingress Protection:

-

Includes:

-

Body Finish:

Gold

PSMP Board to Board Solutions

Ron Orban

Product Manager

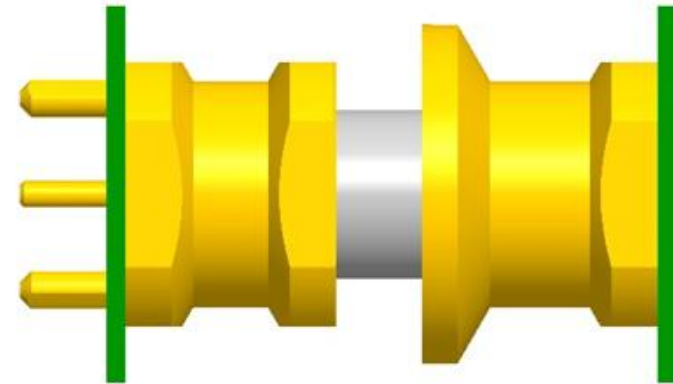
December 2015

Overview

- Perfect solution for board-to-board applications requiring high power
- Three-piece design
 - Limited Detent PCB
 - Smooth Bore PCB
 - Buller Adapter
- Maximizes PCB density
- Ideal for blindmating
- 50 Ohm
- 10 GHz operation
- 200 W @ 2.2 GHz
- 12.6 mm minimum board spacing
- Axial misalignment: ± 1 mm
- Radial misalignment: 4°

Applications

- Base Stations
- Filters
- Amplifiers
- Handheld Radio
- Anywhere SMPs are used



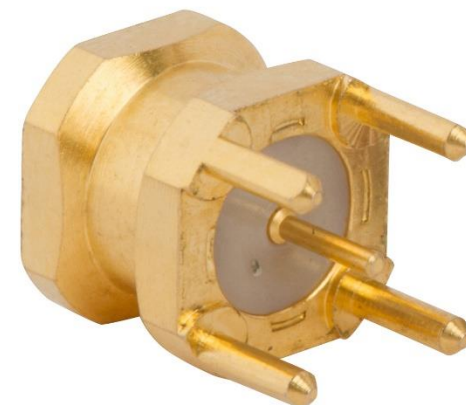
Ordering Information

■ Limited Detent Parts

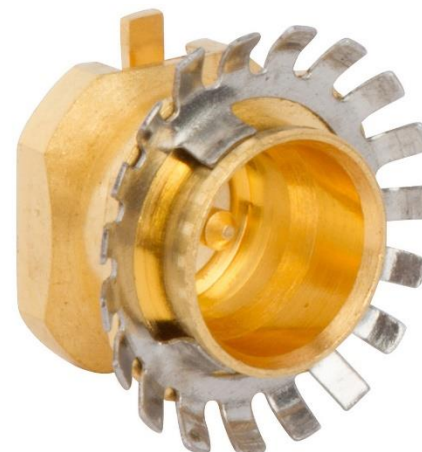
Part Number	Description
PSMP-MSLD-PCT25	PSMP PCB Jack, Male Contact, Through-Hole 2.5mm Legs, Limited Detent, 50 Ohm
PSMP-MSLD-PCT35	PSMP PCB Jack, Male Contact, Through-Hole 3.5mm Legs, Limited Detent, 50 Ohm
PSMP-MSLD-PCT1R	PSMP PCB Jack, Male SMT R/A Contact, Through-Hole 1.0mm Legs, Limited Detent, 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



Actual Size



PSMP-MSLD-PCT35



Actual Size

PSMP-MSLD-PCSEM

Ordering Information

■ Smooth Bore Parts

Part Number	Description
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-MSSB-PCS



Ordering Information

■ Bullet Adapters

Part Number	Description	Length
PSMP-FSBA-1000	PSMP Bullet Adapter, Plug to Plug, Female Contact	10.00 mm
PSMP-FSBA-1042	PSMP Bullet Adapter, Plug to Plug, Female Contact	10.42 mm
PSMP-FSBA-1175	PSMP Bullet Adapter, Plug to Plug, Female Contact	11.75 mm
PSMP-FSBA-1755	PSMP Bullet Adapter, Plug to Plug, Female Contact	17.55 mm
PSMP-FSBA-1970	PSMP Bullet Adapter, Plug to Plug, Female Contact	19.70 mm
PSMP-FSBA-2380	PSMP Bullet Adapter, Plug to Plug, Female Contact	23.80 mm
PSMP-FSBA-2580	PSMP Bullet Adapter, Plug to Plug, Female Contact	25.80 mm



PSMP-FSBA-1755



PSMP-FSBA-1970

Board to Board Products Comparison

		AFI-50	AFI-75	HD-AFI-75	HD-AFI-50	AFI-Dart-75	AFI-Dart-50	SMP	SMPM	P-SMP
Electrical	<i>Frequency (GHz)</i>	DC - 6	DC - 3	DC - 18	DC - 18	DC - 18	DC - 18	DC - 40	DC - 65	DC-10
	<i>Return Loss [VSWR] (frequency in GHz)</i>	-25 dB [1.12]	-26 dB [1.11]	-30 dB [1.11]	-23 dB [1.15]	-30 dB [1.11]	-23 dB [1.15]	-23 dB [1.15]	-23 dB [1.15]	-32 dB [1.05]
	<i>Range #1</i>	DC-3	DC-1	DC-1	DC-3	DC-1	DC-3	DC - 26.5	DC - 26.5	DC - 3 (Cabled)
	<i>Return Loss [VSWR] (frequency in GHz)</i>	-17.7 dB [1.3] 3	-17.7 dB [1.3]	-22 dB [1.17]	-19 dB [1.25] 3	-22 dB [1.17]	-19 dB [1.25]			-26 dB [1.11] 3 - 6 (Cabled)
	<i>Range #2</i>	6	DC-3	DC-3	6	DC-3	3-6			
	<i>Isolation pitch] (@ min pitch) (@ Frequency GHz)</i>					-90 dB [4.5 mm] [1 GHz]	-70 dB [4.5 mm] [4 GHz]			
	<i>Nominal Impedance (Ohm)</i>	50	75	75	50	75	50	50	50	50
	<i>RF Leakage (dB) (@ frequency GHz)</i>	-70 (3)	-70 (3)	-70 (3)	-70 (3)	-70 (3)	-70 (3)	-70 (3)	-80	-80
<i>Power Handling (Watts)</i>	200 DC-2 GHz	95 DC-1 GHz	10 DC-2 GHz	20 DC-3 GHz	10 DC-2 GHz	20 DC-3 GHz	30 1 GHz			200 DC- 2.2 GHz
<i>Intermodulation 3rd Order</i>	< -150 dBc (2 x 43 dBm)									< -160 dBc (2 x 43 dBm)
Mechanical (Note: Total Misalignment includes +/- tolerance, e.g. total 1.0 = +/-0.5 mm)	<i>Mating Cycles</i>	100	100	200	200	200	200	100-1000	100-1000	100-1000
	<i>Engagement force (N)</i>	22 Max.	22 Max.	6 Max.	6 Max.	6 Max.	6 Max.	40 Max.	11-19 Max.	10-68 Max
	<i>Disengagement Force (N)</i>	2 Min.	2 Min.	1 Min.	1 Min.	1 Min.	1 Min.	2 Min.		2.2-25 Min
	<i>Total Max. Axial Misalignment (mm)</i>	1	1	2	2	2	2	0.25	0.25	2
	<i>Total Max. Radial Misalignment (mm)</i>	0.8	0.8	0.8	1	1	1	0.51	0.51	1.32
	<i>Total Max. Radial Gathering (mm)</i>	2	2	2						
	<i>Total Min. Board to Board Spacing (mm)</i>	12.7	12.7	12	12	10	10	9	7.95	12.6
	<i>Protective Shroud</i>	Y	Y	Y	Y	N	N	N	N	N
<i>Variable Bullet Length</i>	N	N	Y	Y	Y	Y	Y	Y	Y	
<i>Closed Entry Contact</i>	N	N	Y	Y	Y	Y	N	N	N	
Manufacturing methods	<i>Body Construction</i>	Machined/ Die-cast	Machined/ Die-cast	Machined/ Die-cast	Machined/ Die-cast	Stamped/ Molded	Stamped/ Molded	Machined	Machined	Machined
	<i>Bullet Construction</i>	Sheet Metal Stamped	Sheet metal Stamped	Machined	Machined	Stamped/ Molded	Stamped/ Molded	Machined	Machined	Machined

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