

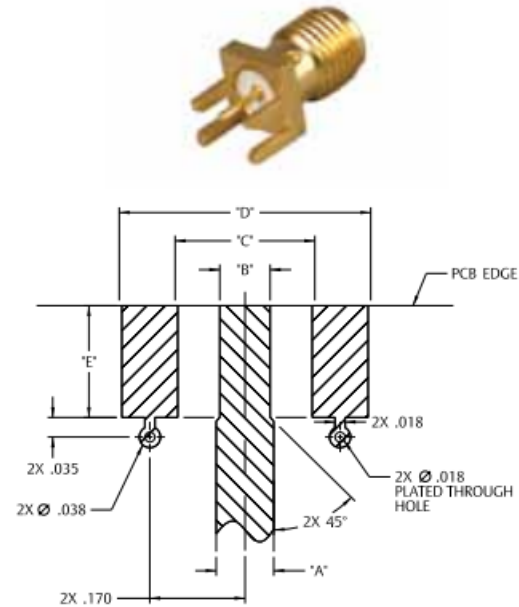
Johnson 50 Ohm, SMA Connectors, PC Mount

Connectivity for
Business-Critical Continuity

PC Mount

The **End Launch** connector is attached to the circuit board by inserting the board edge between the legs and soldering the legs and center conductor to pads on the board. For optimum high frequency performance, the connector to circuit board transition must be adjusted for low VSWR. To compensate for the transition from coax to microstrip, trace widths "A" and "B" must be adjusted based on circuit board thickness. When properly adjusted, this technique yields a low VSWR over a wide bandwidth.

The tabulated dimensions "A", "B", "C", "D", and "E" were determined experimentally to achieve low VSWR (typically less than 1.5 up to 18 GHz). The circuit board used connectors for these tests was double-sided FR 4 with 1 oz. copper on both sides. The copper was left on the bottom of the board to create a ground plane for the 50 Ohm microstrip structure. While not all inclusive, these dimensions are given as reference information for selected SMA End Launch connectors. Further adjustments may be necessary depending upon the application. All dimensions are in inches.

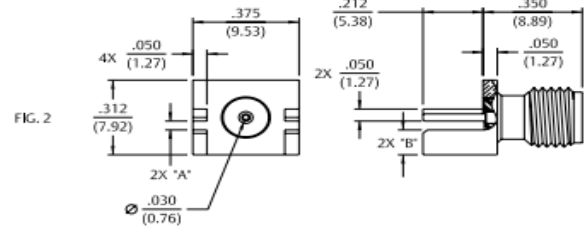
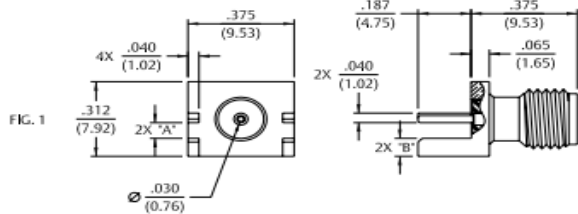


Part No.	Base Width	Board Thickness	"A"	"B"	"C"	"D"	"E"
142-0701-801/806	.375	.062	.103	.090	.250	.440	.200
142-0701-851/858	.375	.062	.103	.090	.250	.440	.200
142-0701-871/876	.375	.062	.103	.090	.250	.440	.200
142-0711-821/826	.250	.062	.103	.070	.170	.380	.165
142-0711-871/876	.375	.047	.083	.075	.250	.440	.200
142-0711-881/886	.375	.047	.083	.075	.250	.440	.200
142-0701-881/886	.375	.031	.050	.045	.250	.440	.200

Tabulated Dimensions "A", "B", "C", and "D" are symmetrical about the center line.

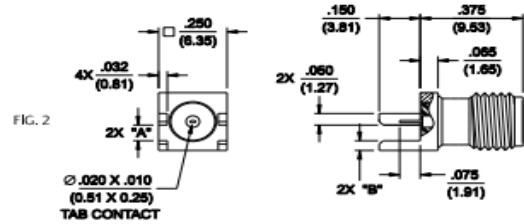
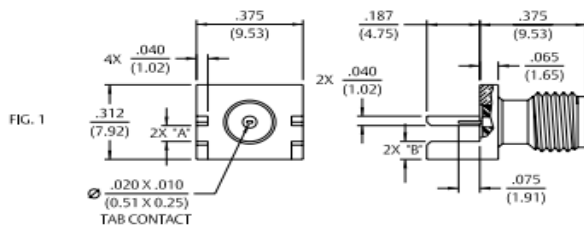
PC Mount

End Launch Jack Receptacle – Round Contact



Gold Plated	Nickel Plated	Board Thickness	"A"	"B"	Figure
142-0701-801	142-0701-806	.062 (1.57)	.068 (1.73)	.073 (1.85)	1
142-0701-831	142-0701-836	.042 (1.07)	.048 (1.22)	.093 (2.36)	1
142-0701-881	142-0701-886	.031 (0.79)	.037 (0.94)	.104 (2.64)	2
142-0711-871	142-0711-876	.047 (1.19)	.053 (1.35)	.088 (2.24)	1

End Launch Jack Receptacle – Tab Contact



Gold Plated	Nickel Plated	Board Thickness	"A"	"B"	Figure
142-0701-851	142-0701-856	.062 (1.57)	.068 (1.73)	.083 (2.11)	1
142-0701-841	142-0701-846	.042 (1.07)	.048 (1.22)	.103 (2.62)	1
142-0711-881	142-0711-886	.047 (1.19)	.053 (1.35)	.098 (2.24)	1
142-0721-811	142-0721-816	.025 (0.64)	.030 (0.76)	.121 (3.07)	1
142-0721-861	142-0721-866	.032 (0.81)	.037 (0.94)	.083 (2.11)	2

Cinch Connectivity Solutions
The global leader in enabling
Business-Critical Continuity™.

- AC Power
- Embedded Power
- Power Switching & Controls
- Connectivity
- Industrial Power
- Precision Cooling
- DC Power
- Infrastructure Management & Monitoring
- Racks & Integrated Cabinets
- Embedded Computing
- Outside Plant
- Services

Cinch Connectivity Solutions

299 Johnson Ave.SW, Ste 100
Waseca, MN 56093
Ph: 507.833.8822

Cinch Connectivity Solutions (Shanghai) Co., Ltd.

Building 1, No. 800 Shenfu Road,
Xinzhuang Industrial Park
Ph: 86 21 54427668

Cinch Connectivity Solutions, Ltd.

Chelmsford
Essex CM1 2UP
Ph: +44 1245.359.515