Technical
Data Sheet

SMA F RP PCB SOLDER

P/N: AT3S2P-62

Product Feature:

- Connector Type : SMA
- Polarity : Reverse Polarity
- Gender : Female/Jack
- Geometry : Straight
- Termination Style : Solder
- Soldered : To PCB
- Application : General Purpose/Telecom etc

The **SMA Female Reverse Polarity (RP) PCB Mount Solder Connector** provides a high-reliability, board-level interface designed to comply with regulatory antenna port standards. By reversing the traditional gender configuration—incorporating **a male center pin inside a female threaded outer housing**—it prevents the unauthorized connection of high-gain standard antennas. Its robust through-hole or surface-mount **legs solder directly to the ground plane**, providing exceptional mechanical shear strength and anti-rotational stability on the PCB. This connector is the industry standard for commercial **wireless hardware, including Wi-Fi routers, IoT gateways, Zigbee modules, and industrial access points** where **precise 50Ω impedance matching and clean signal propagation** are essential.

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 6	GHz
VSWR	≤ 1.15	@DC-3 GHz
	≤ 1.25	@3-5 GHz
Insertion Loss	≤ 0.2	@DC-4 GHz
Insulation Resistance	≥ 5000	MΩ
Dielectric Withstanding Voltage	≥ 1.0	kVrms (at sea level)
Inner Conductor Resistance	≤ 3.0	mΩ
Outer Conductor Resistance	≤ 2.0	mΩ
Power Handling	350	W @1GHz
RF Leakage	≤ -60	dB @1GHz

Ground floor, Plot No -20, (KH No-160/1,street No-3/2, samta Vihar, Mukandpur Extn., North West Delhi, Delhi-110042
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Material & Plating		
Component	**Material**	**Plating**
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Gold
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

Mechanical & Environmental Specifications		
Parameter	**Value**	**Unit**
Durability (Matings)	≥ 500 min.	-
Fastening Type	1/4-36	-
Contact Captivation	≥ 27	N
Soldered On	PCB (Through Hole)	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-

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