Technical
Data Sheet

SMA F RA for PCB Solder SMT Mount

P/N: AT3S4PT-6

Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Female/Jack
- Geometry : Right Angle (90°)
- Termination Style : Solder
- Mounting : To PCB (SMT)
- Application : General Purpose/Telecom etc

The **SMA Female Right-Angle Surface Mount (SMT) PCB Connector** offers a highly compact, automated-assembly solution for high-frequency RF layouts. Its **90-degree configuration** routes cables parallel to the circuit board, eliminating vertical profile constraints and **minimizing mechanical leverage on the layout**. Designed for high-speed pick-and-place manufacturing, it features specialized coplanar SMT leads that solder directly to the board's surface traces, optimizing processing time and ensuring **excellent 50 Ω impedance** continuity up to 6 GHz. Key **applications are Embedded Wi-Fi 6E/7 routers, 5G small cells, drone electronics and flight control subsystems and IoT tracking devices.**

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 6	GHz
VSWR	≤ 1.20	@DC-3 GHz
	≤ 1.30	@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 (SMT)	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-

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