Technical
Data Sheet

SMA M for PCB solder with Stand off

P/N: AT3S1PF-6

Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Male/Plug
- Geometry : Straight
- Termination Style : Solder
- Soldered: To PCB
- Application : General Purpose/Telecom etc

The **SMA Male (M) PCB solder connector with a built-in standoff** is a high-precision RF component engineered for **stable 50-ohm** signal transmission. The **integrated standoff** provides mechanical **clearance between the connector body and the printed circuit board**, facilitating precise alignment, optimal solder reflow, and efficient heat dissipation. Built with durable brass and gold-plated contacts, it **minimizes signal loss across frequencies up to 8 GHz**. This connector is widely **applied in telecommunications, IoT hardware modules, instrumentation, and RF testing equipment** requiring secure, vibration-resistant board-to-cable interfaces.

Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 8	GHz
VSWR	≤ 1.15	@DC-4 GHz
	≤ 1.25	@3-6 GHz
Insertion Loss	≤ 0.2	@DC-5 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
Coupling Nut	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
Coupling Nut Retention Force	≥ 270	N
Soldered On	PCB	-
Operating Temperature	-50 ~ 125	˚C
Compliance	ROHS	-

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