

## SMA F for PCB solder Edge Mount

P/N: AT3S2PE-6

### Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Female/Jack
- Geometry : Straight
- Termination Style : Solder
- Mounting : To PCB (On Edge)
- Application : General Purpose/Telecom etc

The **SMA Female Edge-Mount PCB Solder Connector** provides an optimized, coplanar interface for high-frequency microwave designs **up to 6 GHz**. By straddling the **edge of the circuit board**, it allows the RF signal to launch horizontally along the top layer microstrip or coplanar waveguide, **minimizing return loss and eliminating performance-degrading vertical transitions**. Its low-profile, inline orientation makes it perfect for dense electronic card cages. This connector is **widely implemented in RF evaluation boards, high-speed optical transceiver modules, multi-port network switches, and compact phased-array antenna feeds**.



### Electrical Specifications

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



## Technical Data Sheet

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 (On Edge)	-
Operating Temperature	-50 ~ 125	°C
Compliance	ROHS	-