

## SMA F BH for PCB Solder

P/N: AT3S2PB-6

### Product Feature:

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

The **SMA Female Bulkhead Straight Through-Hole PCB Solder Connector** provides a rugged, high-performance interface for transitioning RF signals from enclosure panels directly to a circuit board. Its **threaded bulkhead body** mounts securely through a chassis cutout, utilizing a **nut and washer to isolate the delicate PCB solder joints from external mating torque and cable stress**. The integrated **through-hole pins ensure exceptional electrical grounding and high mechanical stability**. It is heavily **utilized in industrial wireless gateways, telecom rack units, multi-channel RF testing enclosures, and ruggedized military communication systems**.



### 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

<b>Material &amp; Plating</b>		
<b>Component</b>	<b>Material</b>	<b>Plating</b>
Center Conductor	Brass	Gold
Outer Conductor/Body	Brass	Gold
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

<b>Mechanical &amp; Environmental Specifications</b>		
<b>Parameter</b>	<b>Value</b>	<b>Unit</b>
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	-