

## BNC M BH PCB MOUNT SOLDER

P/N: AT3B1SB-4

### Product Feature:

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

The **BNC Male Bulkhead (BH) PCB Mount Solder connector** is a specialized interface designed to pass through a panel while connecting directly to a circuit board. This configuration allows for a **secure, grounded chassis attachment** using a nut and washer, while the male interface enables direct mating with BNC female cables. It is engineered for **high mechanical stability** and **excellent EMI shielding**. Common applications include **signal generators, front-panel RF outputs, Telecom, and industrial control interfaces** where a rugged, panel-secured male port is required for external connectivity.



### Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	$\Omega$
Frequency Range	DC ~ 4	GHz
VSWR	$\leq 1.15$	@DC-2 GHz
	$\leq 1.30$	@2-4 GHz
Insertion Loss	$\leq 0.2$	@DC-4 GHz
Insulation Resistance	$\geq 5000$	M $\Omega$
Dielectric Withstanding Voltage	$\geq 1.5$	kVrms
Inner Conductor Resistance	$\leq 1.0$	m $\Omega$
Outer Conductor Resistance	$\leq 0.25$	m $\Omega$
Power Handling	300	W @1GHz
RF Leakage	$\leq -55$	dB @1GHz



## Technical Data Sheet

Material & Plating		
Component	Material	Plating
Center Conductor	Phosphor Copper	Gold
Outer Conductor/Body	Brass	White Bronze
Fastening Nut	Brass	Tri-Alloy
Dielectric	Teflon/PTFE	-
Gasket	Silicone rubber	-

Mechanical & Environmental Specifications		
Parameter	Value	Unit
Durability (Matings)	≥ 500 min.	-
Contact Captivation	≥ 27	N
Coupling Nut Torque	7 - 28	Ncm
Coupling Nut Retention Force	≥ 450	N
Soldered on	PCB or Cable	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-