

BNC M PCB Mount Solder

P/N: AT3B1S-4

Product Feature:

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

The **BNC Male PCB Mount Solder connector** is a specialized RF interface that allows for a direct, vertical, or right connection from a circuit board to an external BNC female port. It features integrated solder pins for signal and ground, along with mechanical legs that provide structural reinforcement against mating stresses. This design ensures **consistent impedance** and **high-quality signal transmission**. It is typically used in **signal generators, RF output modules, and specialized communication equipment** where a rugged, board-mounted male interface is required for frequent testing or external cable attachment.



Electrical Specifications

Parameter	Value	Unit
Characteristic Impedance	50	Ω
Frequency Range	DC ~ 4	GHz
VSWR	≤ 1.15	@DC-2 GHz
	≤ 1.30	@2-4 GHz
Insertion Loss	≤ 0.2	@DC-4 GHz
Insulation Resistance	≥ 5000	M Ω
Dielectric Withstanding Voltage	≥ 1.5	kVrms
Inner Conductor Resistance	≤ 1.0	m Ω
Outer Conductor Resistance	≤ 0.25	m Ω
Power Handling	300	W @1GHz
RF Leakage	≤ -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	-
Operating Temperature	-40 ~ 85	°C
Compliance	ROHS	-