

SMA F BH CPS TYPE CRIMP for RG 178 cable

P/N: AT3S2BDS-6W

Product Feature:

- Connector Type : SMA
- Polarity : Standard
- Gender : Female/Jack
- Geometry : Straight Bulkhead
- Termination Style : Crimp CPS Type
- Cable : RG178
- Application : General Purpose/Telecom etc

The **SMA Female Bulkhead Center Pin Solder (CPS) Crimp Connector for RG178 Cable** provides a highly stable, low-loss panel interface for ultra-thin coax. **Soldering the center pin** ensures an exceptionally precise electrical connection to the delicate 30 AWG inner conductor of the RG178 wire, **preventing signal degradation at high frequencies**, while the outer sleeve is crimped for rugged strain relief. The **threaded bulkhead** installs securely into chassis cutouts. This design is **widely utilized in aerospace telemetry, miniature UAV communication modules, defense electronics, and dense multi-channel RF testing enclosures.**



Electrical Specifications

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



Technical Data Sheet

| Material & Plating | | |
|----------------------|-----------------|-------------|
| Component | Material | Plating |
| Center Conductor | Brass | Gold |
| Outer Conductor/Body | Brass | Gold |
| Ferrule | Copper Alloy | Gold/Nickel |
| 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 |
| Cable Type Compatibility | RG178 | - |
| Operating Temperature | -50 ~ 125 | °C |
| Compliance | ROHS | - |