

LT-SMAM-RG316

SMA MALE FOR RG316, CRIMP TYPE

The LT-SMAM-RG316 is a high-precision SMA Male Connector designed for RG316 coaxial cables, ensuring stable connectivity and excellent electrical performance. With its threaded coupling mechanism, it provides a secure, low-loss RF connection, making it ideal for wireless communication systems, test equipment, antennas, GPS, and RF modules. Built with durable, corrosion-resistant materials, this connector offers long-term reliability for both indoor and outdoor applications, while maintaining strong signal integrity in high-frequency environments.

Key Features

- Designed for RG316 coaxial cable
- Standard SMA Male threaded interface
- Low VSWR for minimal signal loss
- Excellent performance at high frequencies
- Durable, corrosion-resistant construction

Key Highlights

- Optimized for high-frequency RF systems
- Provides stable, low-loss connections
- Compact size for space-limited applications
- Reliable performance in GPS, test, and wireless setups
- Built for durability in both indoor and outdoor use

Applications

- Cellular base stations and antenna systems
- RF and microwave communication setups
- Broadcast transmission equipment
- Military and aerospace communication systems



Specifications

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|---|---|
| PART NUMBER | LT-SMAM-RG316 |
| Description | SMA Male for RG316, crimp type |
| Material and Plating | |
| Center contact | Beryllium copper or Brass/ Gold Plating |
| Outer contact & Body | Brass / Gold Plating |
| Dielectric | PTFE |
| Gasket | Silicon Rubber |
| Electrical Characteristics | |
| Characteristics Impedance | 50 Ohm |
| Frequency Range | DC~11GHz |
| Insulation Resistance | $\geq 5000\text{M}\Omega$ |
| Center contact resistance | $\leq 4\text{ m}\Omega$ |
| Outer contact resistance | $\leq 2\text{ m}\Omega$ |
| Outer contact | $\geq 5000\text{M}\Omega$ |
| Dielectric Strength | 1500V rms (AC) |
| Working voltage | 500V rms |
| Insertion Loss | $\leq 0.15\text{dB}$ @ 3GHz |
| VSWR | ≤ 1.3 @ DC~3.0GHz |
| Environmental & Mechanical Specifications | |
| Durability (matings) | ≥ 500 cycles |
| Thermal Shock Test Method | MIL-STD-202, Method 213, Test Condition G |
| Vibration Test Method | MIL-STD-202, Meth. 204, Cond. B |
| Suitable cables | RG316 |
| Temperature Range | -45°C to +85°C |
| RoHS | Compliant |

