TECHNICAL SPECIFICATION

1. GENERAL

1.1 Scope

Product Name	Part Number
1/2" N Type Male Connector	103000041
1/2" N Type Male Right Angle Connector	103000042

2. CONSTRUCTION and PARAMETERS

2.1 1/2" N Type Male Connector

2.1.1 Connector Construction



Features:

- Excellent VSWR performance
- Fast and easy installation
- IP68 rated waterproof
- Environment resistance ensures long service life and consistent performance

Note: The above drawing is only for reference.

2.1.2 Electrical Characteristics

Characteristic impedance (Ω)	50±2
Frequency range (GHz)	≥ 3.6
VSWR	≤1.04 @50-1000 MHz
	≤1.07 @1000-1900 MHz
	≤1.07 @1900-2200 MHz
	≤1.08 @2200-2700 MHz
Return Loss	≥35 @50-1000 MHz
	≥30 @1000-1900 MHz
	≥30 @1900-2200 MHz
	≥29 @2200-2700 MHz
Insertion Loss	≤0.05
Peak Power	≥ 0.7
Contact resistance (mΩ)	Center contact≤1, outer contact≤0.25
Dielectric resistance (MΩ)	≥5000
PIM (dBc)	<-155

2.1.3 Mechanical Characteristics

Durability (cycles)	Mating cycles≥500
Weight (g)	29.2
Body Style	Straight

2.1.4 Environmental Characteristics

Temperature range (^{O}C)	-40~+85
Thermal Shock Test Method	IEC 60068-2-27/GB/T 2423.5
Vibration Test Method	IEC 60068-2-6/GB/T 2423.10
Salt Mist Test Method	IEC 60068-2-11/GB/T 2423.17(48H, Neutral)
Humidity	0-95%
Waterproof level	IP68

2.2 1/2” N Type Male Right Angle Connector

2.2.1 Connector Construction



Features:

- Excellent VSWR performance
- Fast and easy installation
- IP68 rated waterproof
- Environment resistance ensures long service life and consistent performance

Note: The above drawing is only for reference.

2.2.2 Electrical Characteristics

Characteristic impedance (Ω)	50±2
Frequency range (GHz)	≥ 3.6
VSWR	≤1.04 @50-1000 MHz
	≤1.07 @1000-1900 MHz
	≤1.07 @1900-2200 MHz
	≤1.08 @2200-2700 MHz
Return Loss	≥32 @50-1000 MHz
	≥30 @1000-1900 MHz
	≥28 @1900-2200 MHz
	≥28 @2200-2700 MHz
Insertion Loss	≤0.05
Peak Power	≥ 0.7
Contact resistance (mΩ)	Center contact≤1, outer contact≤0.25
Dielectric resistance (MΩ)	≥5000
PIM (dBc)	<-155

2.2.3 Mechanical Characteristics

Durability (cycles)	Mating cycles≥500
Weight (g)	42.1
Body Style	Right angle

2.2.4 Environmental Characteristics

Temperature range (^{O}C)	-40~+85
Thermal Shock Test Method	IEC 60068-2-27/GB/T 2423.5
Vibration Test Method	IEC 60068-2-6/GB/T 2423.10
Salt Mist Test Method	IEC 60068-2-11/GB/T 2423.17(48H, Neutral)
Humidity	0-95%
Waterproof level	IP68