

## 1、产品特征描述 Product Feature Description:

N 系列产品是按照 MIL-C-39012、IEC61169-16、CECC22210 标准研制生产的一种具有螺纹连接机构的中小功率连接器。它具有抗振性强、可靠性高、机械和电气性能优良等特点，广泛地用于振动入环境恶劣条件下的无线电设备和仪器中连接射频电缆用。该系列产品能与国际上 N 系列射频同轴连接器相应产品互换。

N series products are in accordance with the MIL-C-39012, IEC61169-16, CECC22210 standard developed and produced a threaded connection mechanism of small and medium power connector. It has the characteristics of strong anti-vibration, high reliability, excellent mechanical and electrical performance, and is widely used in the radio equipment and equipment connected to the radio frequency cable under the harsh environment. The series of products with the international N series RF coaxial connector corresponding product exchange.



## 2、N 系列连接器主要技术参数 N series connector main technical parameters

执行标准 executive standard		
民品 civilian goods	通用规范 General specification	GJB 680 《射频同轴连接器转接器通用规范》(MIL-PRF-55339)
		GJB 680 《general specification for rf coaxial connector adapter》(MIL - PRF - 55339)
		GJB 681 《射频同轴连接器通用规范》(MIL-PRF-39012)
		GJB 681 《rf coaxial connector general specification》(MIL - PRF - 39012)
		GJB 976 《同轴、带状线或微带传输线用射频同轴连接器通用规范》(MIL-DTL-83517)
		GJB 976 《coaxial, stripline and microstrip transmission line with rf coaxial connector general specification》(MIL - DTL - 83517)



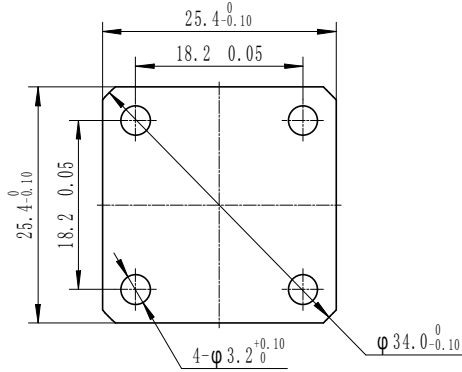
	系列分规范 Series points specification	Q/FD 21119-2010 《N 系列射频同轴连接器分规范(民品)》 Q / FD 21119-2010 《 N series RF coaxial connector sub-specification (civilian)》
军品 Military goods	通用规范 General specification	GB/T 11313.1 《射频连接器 第 1 部分：总规范 一般要求和试验方法》 (IEC 61169-1) GB / T 11313.1 《 RF connectors Part 1: General specification General requirements and test methods》 (IEC 61169-1)
	系列分规范 Series points specification	Q/FD 21057-2010 《N 系列射频同轴连接器分规范(民品)》 Q / FD 21057-2010 《 N series RF coaxial connector sub-specification (civilian)》
产品界面 Product interface		IEC 61169-16 《N 系列射频连接器分规范》 IEC 61169-16 《N Series RF Connector Section Specification》
<b>额定值 rated value</b>		
工作频率 (GHz) operating frequency (GHz)		DC~11GHz
标称阻抗 (Ω) Nominal resistance (Ω)		50 Ω
温度范围 (℃) Temperature range (℃)		- 65 ℃~+165 ℃
<b>电气性能 Electrical properties</b>		
额定功率 rated power		1200W (@1GHz, VSWR=1.0, T=20℃)
绝缘电阻 Insulation resistance		5000MΩ
电压驻波比 (VSWR) Pattern voltage standing wave		≤1.3
射频插入损耗 (dB) Radio frequency insertion loss		≤ 0.05 x √f(GHz) dB
接触电阻 (mΩ) Contact resistance (m Ω)	内导体 Inner conductor	≤ 1.5 mΩ
	外导体 Outer conductor	≤ 1.0 mΩ
介质耐电压 (V) Dielectric Withstand Voltage (V)		1500V



耐射频高电位电压 (V)		1500V
High frequency resistance (V)		
射频泄漏 (全插合状态)		90 dB (@1GHz)
RF leakage (fully interlocked)		
<b>机械性能 mechanical property</b>		
啮合力和分离力	啮合力 Engagement force	不涉及
	分离力 Separation force	不涉及
连接机构耐力矩 The durability of the connector		1. 7Nm
插入特性 Insertion characteristi	中心接触件 Center contact pieces	$\geq 0.56N$
	外接触件 Outside contact	$\geq 2.0N$
中心接触件的固定性 Fixedness of the center contact		28N
连接器的耐久性 The durability of the connector		500 次
电缆保持力 Cable retention	轴向力 Axial force	见相关详细规范 See the relevant detailed specifications
	扭矩 Torque force	见相关详细规范 See the relevant detailed specifications
连接机构的保持力 The retention of the connecting mechanism		450N
安全丝孔强度 Safety wire hole strength		不涉及
<b>环境性能 Environmental performance</b>		
盐雾 (腐蚀) Salt spray (corrosion)		48 小时
高频振动 High frequency vibration		GJB360B-2009, 方法 204, 条件 B
冲击 (规定脉冲) Impact (specified pulse)		GJB360B-2009, 方法 213, 条件 B
温度冲击 Temperature impact		GJB360B-2009, 方法 107, 条件 B
耐湿 Resistant to moisture		GJB360B-2009, 方法 106
<b>材料 Material</b>		
外导体 Outer conductor	黄铜/不锈钢 Brass / stainless steel	
内导体 Inner conductor	黄铜/锡磷青铜 Brass / tin phosphor bronze	
绝缘介质 Insulation medium	聚四氟乙烯 Teflon	
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表面镀层 Surface coating	
外导体 Outer conductor	镀镍/镀三元合金 Nickel plated / plated ternary alloy
内导体 Inner conductor	镀银/镀金 Silver plated / gold plated
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### 3、推荐安装尺寸 Recommended installation dimensions

安装形式 Installation form	推荐安装尺寸 Recommended installation dimensions
四孔开孔尺寸 Four hole opening size	
两孔开孔尺寸 Two hole opening size	不涉及
板到板安装尺寸 Board-to-board mounting dimensions	不涉及
表贴安装尺寸 Surface mounting dimensions	不涉及
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### 4、推荐安装拆卸工具： It is recommended to install the disassembly tool

推荐安装力矩：0.7 Nm ~ 1.1 Nm

Recommended installation torque: 0.7 Nm ~ 1.1 Nm

### 5、解决方案 solutions

N 系列解决方案：

富士达致力于发展为主要设备制造商研发新型的通讯工具，在瞬息万变的市场环境中，抓住市场机遇为您提供具有高附加值的互联解决方案，例如：常用通讯系统的传输复杂组件的新产品。



我们以优秀的产品设计，精良的加工制造，卓越及稳定的机械性能和电子性能，良好的耐候性，为您提供高品质的天馈系统解决方案。

N Series Solutions:

Forstar is committed to the development of new equipment for major equipment manufacturers to develop new communication tools, in a rapidly changing market environment, seize market opportunities to provide you with high value-added interconnect solutions, such as: common communication system transmission complex components of the new product.

We have excellent product design, excellent processing and manufacturing, excellent and stable mechanical properties and electronic properties, good weather resistance, to provide you with high-quality antenna system solutions.

