

N Female Four-Hole Flange Connector with Round Post

SKU: N2-4F-RP

MPN: N2-RP-4F

Description

N (or N-Type) flange connectors are used within high performance low-band radio communications systems, such as in aerospace, radar, 4G cellular, and broadcast.

This N female connector is used to terminate coaxial cable types onto a panel where both the inner conductor and outer braid are soldered accordingly. The female connector body has a flange design with four mounting holes.

As a low-PIM design the connector uses ternary alloys to achieve very low VSWR under 3 GHz, and a modest $< 1.3:1$ VSWR up to 6 GHz.

This N Female coaxial connector is used in high performance and general-precision systems up to 6 GHz. Termination of flange connectors particularly those operating towards the upper frequency limit must be made with great care and precision.

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RF Connector Interface

RF Interface	Body Shape	Mounting
N Female	Straight	4-Hole Flange

RF Specification

Start Frequency:	0 GHz	Input Impedance:	50
Stop Frequency:	4 GHz	Inner Contact Resistance:	$\leq 1 \text{ m}\Omega$
		Insulation Resistance:	$\geq 5000 \text{ m}\Omega$
		Outer Contact Resistance:	$\leq 1 \text{ m}\Omega$
		RF Operating Voltage:	$\leq 500 \text{ Vrms}$

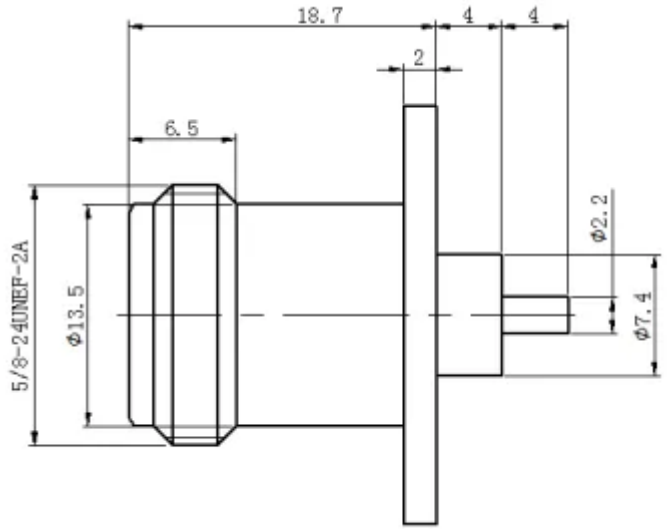
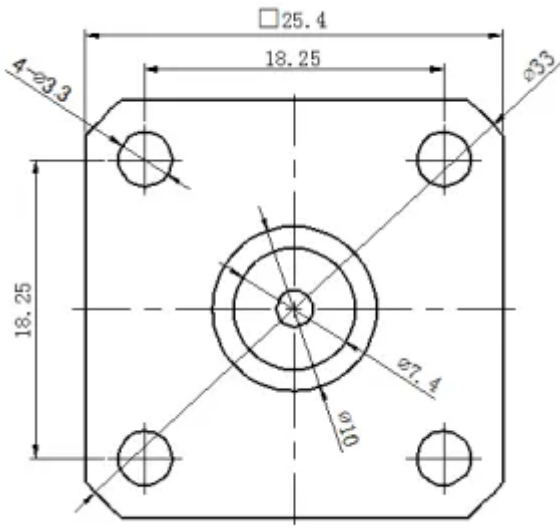
VSWR Measurement

Frequency	VSWR	Return Loss
4000 MHz	$\leq 1.3:1$	$\leq 0.15 \text{ dB}$

Physical Specification

Body Material:	Brass	Conductor Attachment:	Round Post
Body Plating:	Nickel	Contact Material:	Beryllium Copper
Insulator Material:	PTFE / Teflon	Contact Plating:	White Bronze
Dimensions:	18.4 × 25.4 × 25.4	Min. Operating Temperature:	-40 °C
Weight:	25 g	Max. Operating Temperature:	85 °C
Compliance/Certifications:	ISO 9001 Quality Management	Mating Cycles:	> 500
RoHS			

Drawing



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