N-Type RF DC BLOCK
0.005 -18GHz

Product Description

RFDCBLK18NMF is an N-Type RF DC Block with a frequency range of 0.005 to 18GHz.

The maximum insertion loss is 0.6dB.

The connectors are N Type Male to Female.

Features

- Ultra compact package
- Bi-Directional
- Low Insertion Loss
- Inner Type

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications (T_A=+25ºC)

Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.005-18		GHz
Insertion Loss			0.6	dB
Input VSWR			1.25	:1
Output VSWR			1.25	:1
Voltage			50	V
RF Power			10	W
Impedance		50		Ohms
Connectors		N Type Male to Female		
Housing Material		SU303F (Polished & Passivated)		
Insulator Material		PEI		

RF-LAMBDA USA LLC: www.rflambda.com
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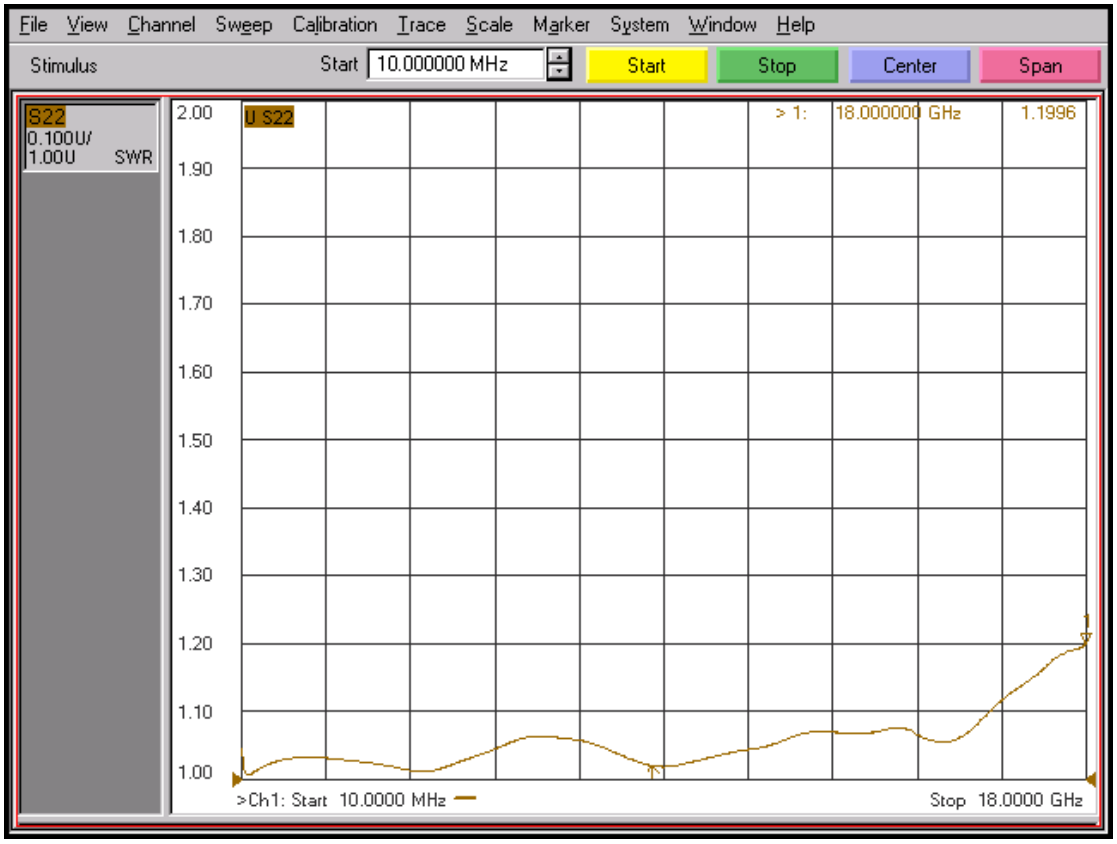
Environmental Specifications and Test Standards

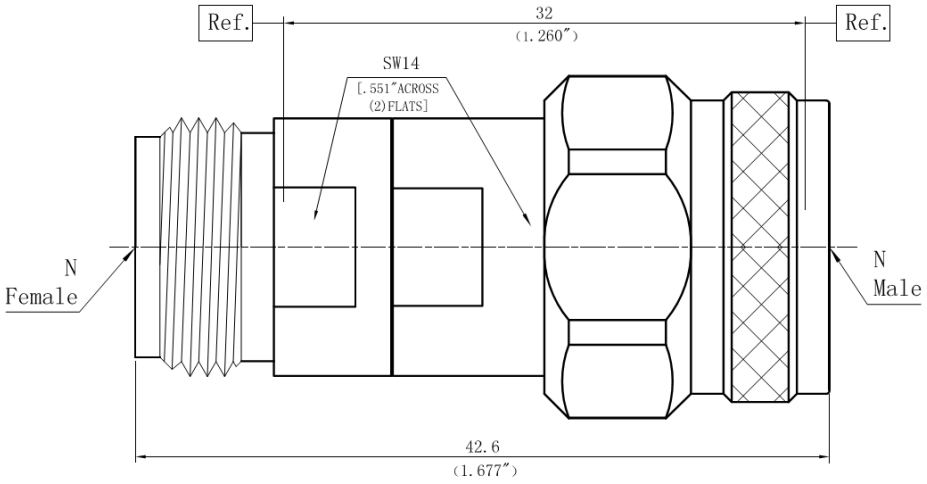
Parameter	Description
Operational Temperature	-55ºC to +95ºC (Case Temperature)
Storage Temperature	-65ºC to +125ºC
Thermal Shock	-55ºC → +95ºC (5 Cycles / 10 hours)
*Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

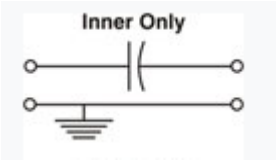
*For vibration testing details please see additional information section.

Typical Performance Plots



Outline Drawing





Notes:
1. Package Material: Beryllium Copper
2. Finish: Gold Plated
3. All dimensions are in millimeters [inches].
4. Tolerance ±0.25 [0.01].unless otherwise specified
5. Standard torque wrench must be used to secure RF connectors

Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RFDCBLK18NMF	Connectors N Type Male to Female	0.005 -18GHz N-Type RF DC BLOCK

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