

## 3.5mm RF DC BLOCK 0.005-26.5GHz



### Product Description

RFDCBLK26M35 is a 3.5mm RF DC Block with a frequency range of 0.005 to 26.5GHz.

The maximum insertion loss is 0.6dB.

The connectors are 3.5mm 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<sub>A</sub>=+25°C)

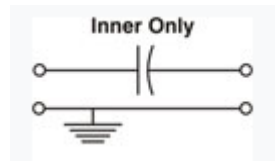
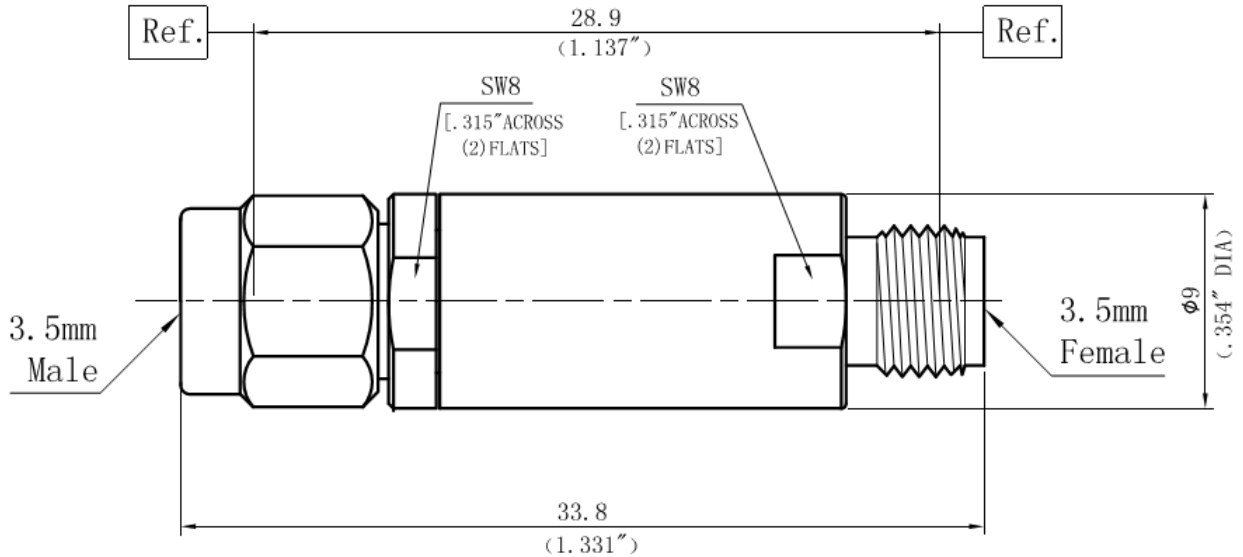
Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.005-26.5		GHz
Insertion Loss			0.6	dB
Input VSWR			1.25	:1
Output VSWR			1.25	:1
Voltage			50	V
RF Power			10	W
Impedance		50		Ohms
Connectors		3.5mm Male to Female		
Housing Material		SU303F (Polished & Passivated)		
Insulator Material		PEI		

**Environmental Specifications and Test Standards**

Parameter	Description
Operational Temperature	-55°C to +95°C (Case Temperature)
Storage Temperature	-65°C to +125°C
Thermal Shock	-55°C → +95°C (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.

**Outline Drawing**



**Notes:**

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

**Additional Information**

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

**Ordering Information**

Part Number	Modification	Description
RFDCBLK26M35	Connectors 3.5mm Male to Female	0.005 – 26.5GHz 3.5mm RF DC Block

**Important Notice**

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information. RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.