

## 2.92mm RF DC Block 0.005 - 40GHz



### Product Description

RFDCBLK40M29 is a 2.92mm RF DC Block with a frequency range of 0.005 to 40GHz.

The maximum insertion loss is 0.6dB.

The connectors are 2.92mm 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)

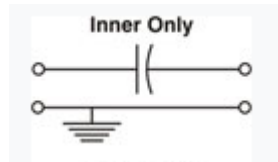
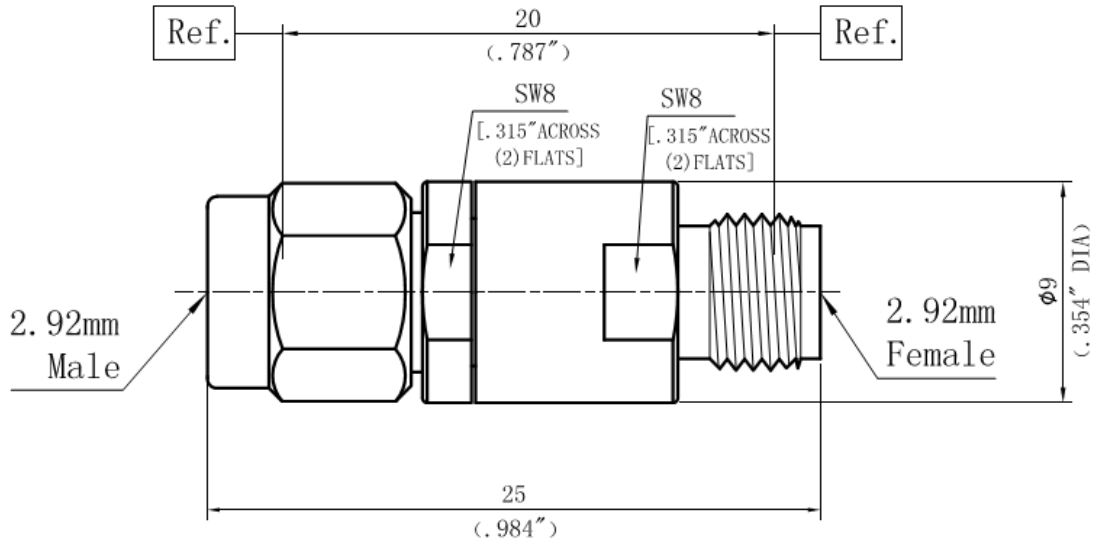
Parameter	Min.	Typ.	Max.	Units
Frequency Range		0.005-40		GHz
Insertion Loss			0.6	dB
Input VSWR			1.25	:1
Output VSWR			1.25	:1
Voltage			50	V
RF Power			10	W
Impedance		50		Ohms
Connectors		2.92mm Male to Female		
Housing Material		SU303F (Polished & Passivated)		
Insulator Material		PEI		

**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
RFDCBLK40M29	Connectors 2.92mm Male to Female	0.005 - 40GHz 2.92mm RF DC Block

**Important Notice**

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