

## Coaxial DC Block

30KHz-110GHz/1.0 mm/25V

Model:TDCB1F1F-3

The TDCB1F1F-3 is a 1.0mm coaxial DC block that prevents the flow of DC current in the frequency range of 30KHz to 110GHz. The DC block has a typical insertion loss of 2.5dB, a typical return loss of -12dB. It is manufactured with 1.0mm female connectors for convenient circuit insertion. The breakdown voltage is +25 Volts..

### Features:

- Operating Frequency 30KHz to 110GHz
- High Return Loss
- Low Cost

### Applications:

- laboratory test
- Instrumentations
- System Integration

### Electrical Characteristics:

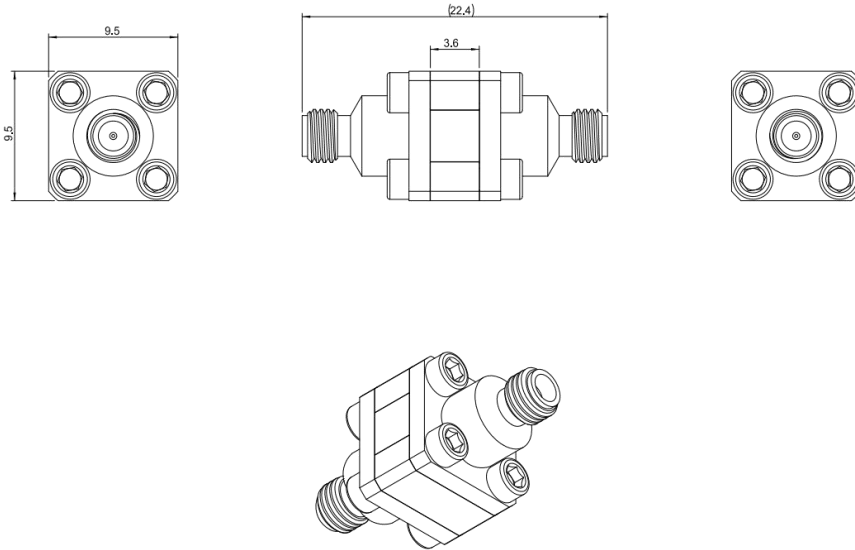
Parameter	Min	Typ	Max	Units
Frequency Range	30KHz-110GHz			
Return Loss		-12		dB
Insertion Loss		2.5		dB
Breakdown Voltage		25		V
Group Delay		80		ps
Impedance		50		Ohms

### Environmental And Physical Characteristics:

Description	Parameter	Units
Body Material	Copper	
Finish	Gold plated	
Inner Conductor	BeCu, Golden	
Connectors	1.0mm Female	
Length	22.4*9.5*9.5	mm
Working Temperature	-40° to +70° C, operating	

**Outline Drawing:**

Unit:mm

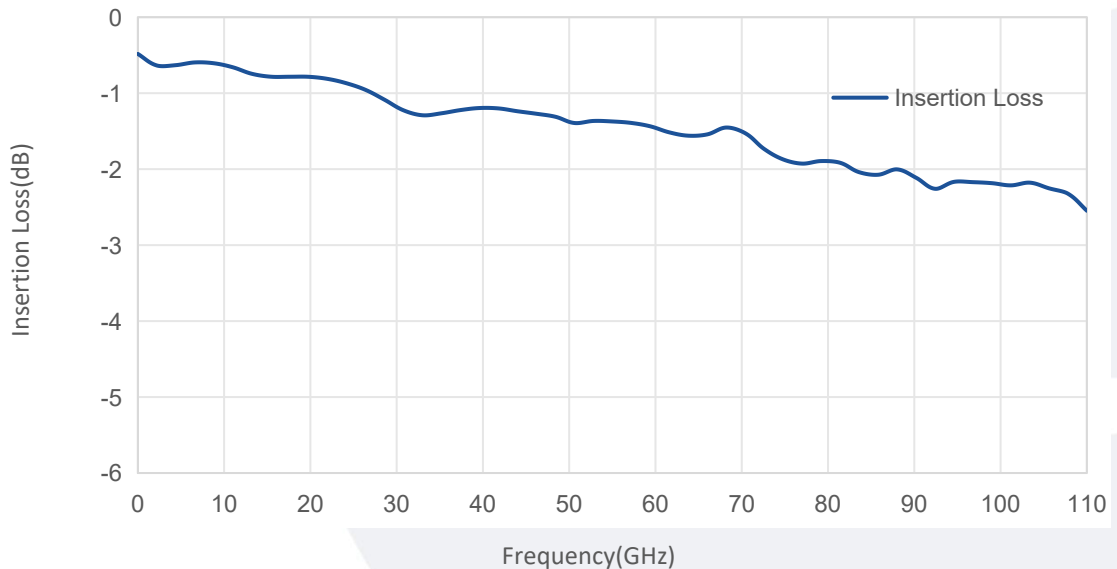


**Ordering Information:**

Base Number	Description
TDCB1F1F-3	30KHz-110GHz,25V,1.0mm Coaxial DC Block

**Typical Performance Data:**

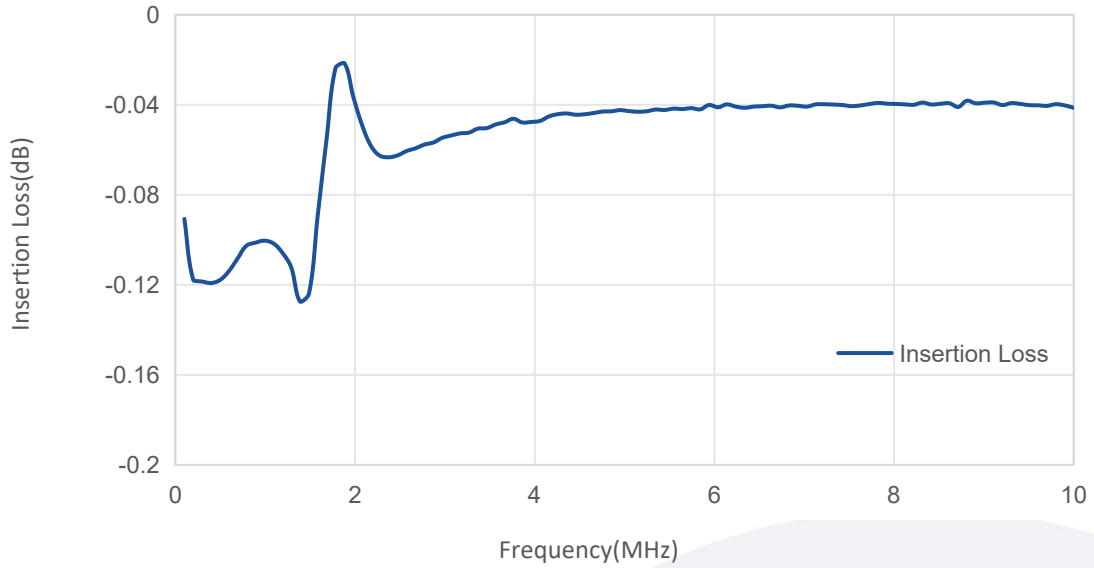
Insertion Loss vs Frequency



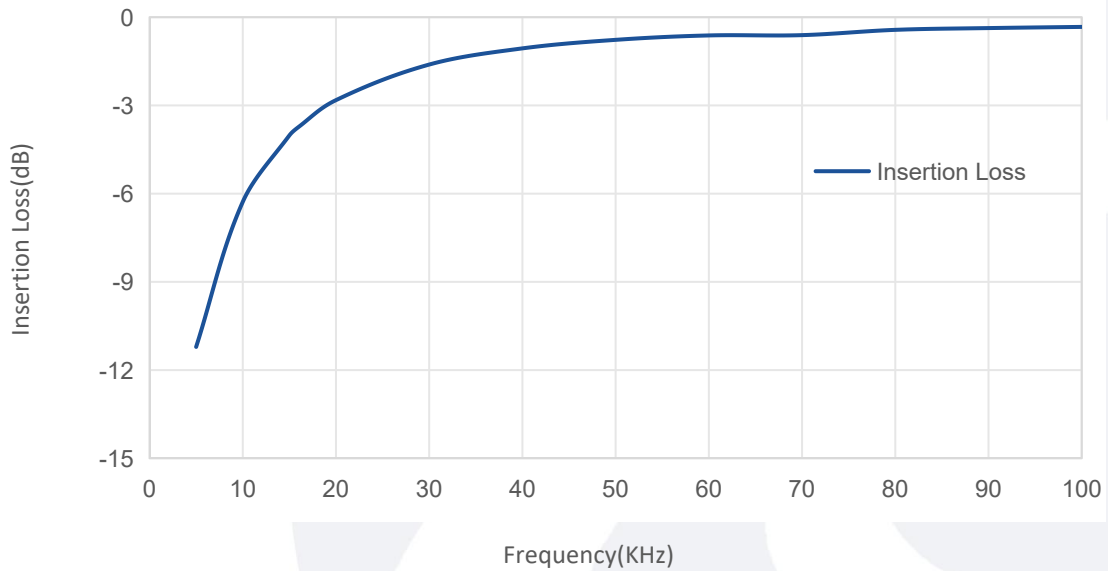
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

**Typical Performance Data:**

**Insertion Loss vs Frequency**



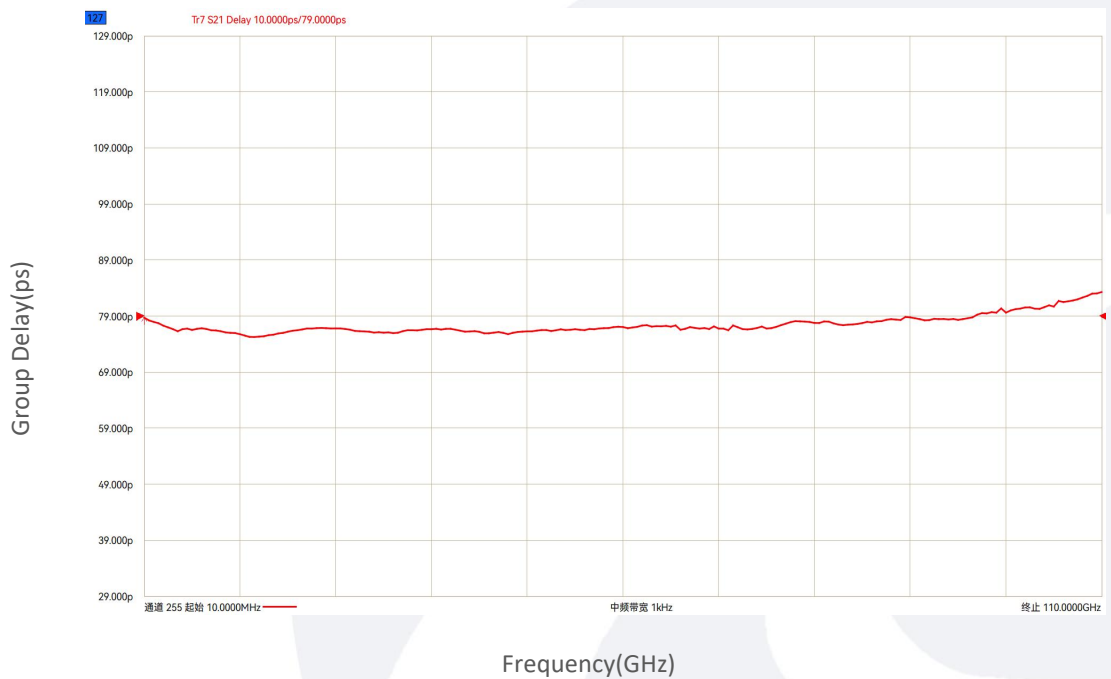
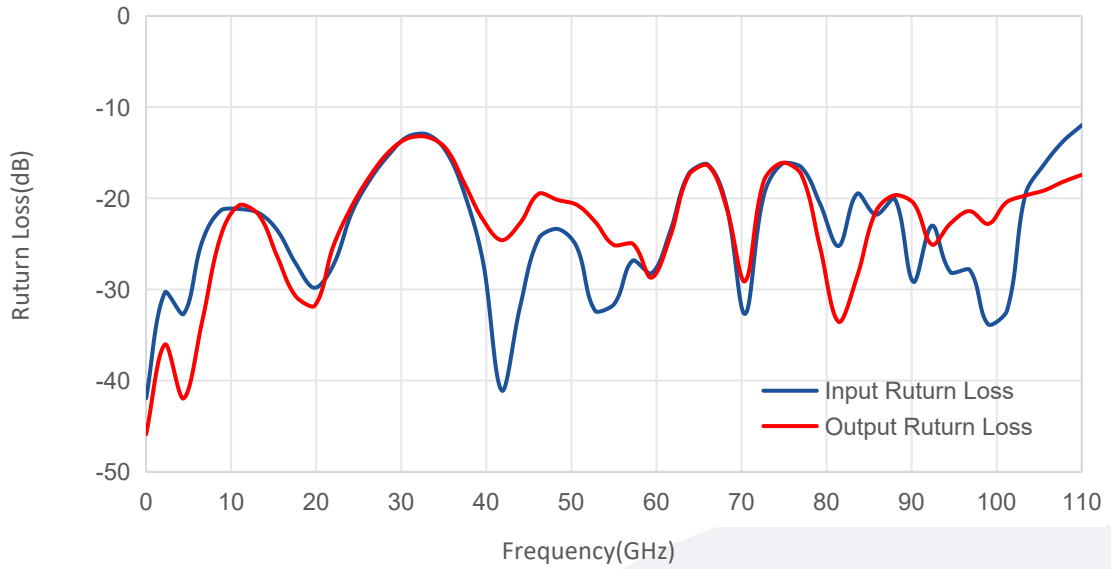
**Insertion Loss vs Frequency**



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## Typical Performance Data:

### Return Loss vs Frequency



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