

Keysight Technologies

N9398C/F/G and N9399C/F DC Blocks

50/700 kHz to 26.5/50/67 GHz

N9398C/F/G and N9399C/F Key Specifications and Features

Maximize your operating range up to 67 GHz

- Improve calibration accuracy with exceptional return loss >15 dB at 67 GHz
- Maximize available power with < 0.9 dB insertion loss
- 2 choices of DC Voltage ratings for a wide range of applications

Industry's First DC Block Up To 67 GHz

The Keysight N9398C/F/G and N9399C/F DC blocks offer a new level of DC blocking with performance specified from 50 kHz all the way up to 67 GHz. Designed to apply AC drive signals to a device while eliminating any DC voltage or current components, these DC blocks feature a broad frequency range, excellent return loss, very low insertion loss and excellent temperature stability. Precision coaxial connector interfaces ensure an excellent impedance match across wide bandwidths, and come in a variety of RF connectors (3.5 mm, 2.4 mm, and 1.85 mm) to fit your application needs.

The Keysight N9398C/F/G and N9399C/F DC blocks are assembled and tested on Keysight precision network analyzers to assure full specifications over their entire frequency range.

Specifications

Specifications describe the product's warranted performance. Supplemental and typical characteristics are intended to provide typical but non-warranted performance parameters. These are denoted as "typical", "nominal" or "approximate".



Figure 1: The Keysight N9398C/F/G and N9399C/F1 DC blocks offer unparallel performance up to 67 GHz.

Model number	N9398C	N9399C	N9398F	N9399F	N9398G
Frequency range	50 kHz to 26.5 GHz	700 kHz to 26.5 GHz	50 kHz to 50 GHz	700 kHz to 50 GHz	700 kHz to 67 GHz
Insertion loss	0.9 dB	1.2 dB	0.9 dB (50 kHz to 26.5 GHz) 1.0 dB (26.5 to 50 GHz)	1.2 dB	0.9 dB (700 kHz to 26.5 GHz) 1.0 dB (26.5 to 67 GHz)
Return loss	10 dB (50 to 300 kHz) 17 dB (300 kHz to 26.5 GHz)	10 dB (700 kHz to 2 MHz) 17 dB (2 MHz to 26.5 GHz)	10 dB (50 to 300 kHz) 15 dB (300 kHz to 50 GHz)	10 dB (700 kHz to 2 MHz) 15 dB (2 MHz to 50 GHz)	10 dB (700 kHz to 2 MHz) 15 dB (2 MHz to 67 GHz)
Max DC working voltage	16 V	50 V	16 V	50 V	16 V
Connector type	3.5 mm (m-f)	3.5 mm (m-f)	2.4 mm (m-f)	2.4 mm (m-f)	1.85 mm (m-f)