BLK-V54+

 50Ω 10 MHz to 50 GHz 2.4mm-Female to 2.4mm-Male

THE BIG DEAL

- · Ultra-wideband, 10MHz to 50 GHz
- Flat Response
- Low Insertion Loss, 0.50 dB typ
- Mates with 1.85 mm and V connectors

APPLICATIONS

- Test and Measurement Instrumentation
- Communication Systems
- Defense Systems



Generic photo used for illustration purposes only

Model No.	BLK-V54+
Case Style	DJ2264
Connectors	2.4mm-F to 2.4mm-M

+RoHS Compliant
The +Suffix identifies RoHS Compliance.
See our website for methodologies and qualifications

PRODUCT OVERVIEW

Mini-Circuits' BLK-V54+ is a coaxial DC Block supporting a wide range of applications from .010 to 50GHz including 5G systems, Ka-Band SatCom, test and measurement and more. This model provides low insertion loss, excellent return loss, RF input handling up to 1 watts and DC voltage handling up to 100V. The unit features 2.4mm-Female connector at one end and 2.4mm-Male connector at the other end and comes housed in a rugged stainless steel body, measuring only 0.36" in diameter and 0.87" in length.

KEY FEATURES

Features	Advantages
Wideband, 10 MHz to 50 GHz	Wide frequency range up to 50 GHz provides application flexibility and makes this model ideal for broad-band and multi-band use.
Excellent Return Loss, 23dB typ	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range enabling its use in test and measurement.
Low Insertion Loss, 0.50 dB typ.	Provides excellent signal power transmission from input to output.
Passivated stainless steel construction.	Stands up to wear and tear in demanding test environments and provides excellent reliability.
Wide operating temperature range, -35 to +85 ° C	Withstands wide operating conditions.



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ELECTRICAL SPECIFICATIONS AT 25°C

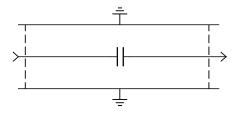
Parameter	Frequency (GHz)	Min.	Тур.	Max.	Units
Frequency Range		0.01		50	GHz
	0.01-40	_	0.41	1.0	dB
Insertion Loss	40-50	_	0.51	1.25	
Deturn Loca	0.01-40	12.2	23	_	dB
Return Loss	40-50	12.2	23	_	

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Case Temperature	-35 °C to +85 °C
Storage Temperature	-35 °C to +85 °C
DC Input Voltage	100 V
Input Power	30 dBm

Permanent damage may occur if any of these limits are exceeded.

ELECTRICAL SCHEMATIC



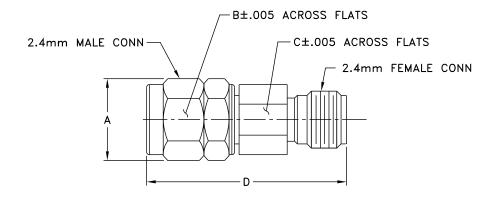
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COAXIAL CONNECTIONS

Port 1	2.4mm-Female	
Port 2	2.4mm-Male	

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inches)

wt	Ε	D	С	В	Α
grams		0.871	0.281	0.312	0.360
5.44		22.12	7.14	7.93	9.14