

Inner DC Block

BLK-18W-N+

 50Ω 50 MHz to 18 GHz N-Female to N-Male

THE BIG DEAL

- Wideband 50 MHz to 18 GHz
- Excellent VSWR, 1.2:1 typ up to 18 GHz
- Low Insertion Loss, 0.5 dB typ up to 18 GHz
- Inner DC block*
- N-type connectors



Generic photo used for illustration purposes only

Model No.	BLK-18W-N+
Case Style	FF779-1
Connectors	N-Female to N-Male

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

APPLICATIONS

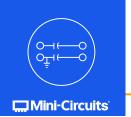
 Test Lab Applications - DC Block protection for RF Test Equipment

PRODUCT OVERVIEW

Mini-Circuits' BLK-18W-N+ is a coaxial inner DC Block supporting a wide range of applications from 50 MHz to 18 GHz including Ku band test and measurement and more. *Inner DC Block refers to blocking the DC path on the center conductor but not blocking the DC path on the outer ground path. (See Electrical Schematic on page 2.) This model provides low insertion loss, excellent return loss and DC voltage handling up to 200V. The unit features N-Female connector at one end and N-Male connector at the other end and comes housed in a rugged stainless steel body, measuring only 2.07" in length.

KEY FEATURES

Features	Advantages		
Wideband, 50 MHz to 18 GHz	Wide frequency range up to 18 GHz provides application flexibility and makes this model ideal for broadband and multi-band use.		
Inner DC Block	Blocks DC current flow at the inner conductor protecting sensitive test equipment that is often damage when exposed to DC voltage and current.		
Excellent VSWR, 1.2:1 dB typ up to 18 GHz	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range enabling its use in test and measurement.		
Low insertion loss, 0.5 dB typ. up to 18 GHz	Provides excellent signal power transmission from input to output.		
Stainless steel construction	Stands up to wear and tear in demanding test environments and provides excellent reliability.		
Very wide operating temperature range, -55 to +100°C	Withstands extreme operating conditions and is suitable for use near high power components where heat rise is common and for use in over temperature tests		



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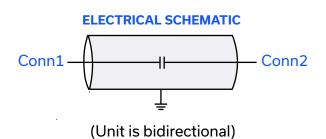
ELECTRICAL SPECIFICATIONS AT 25°C

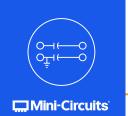
Parameter	Frequency (GHz)	Min.	Тур.	Max.	Units
Frequency Range		0.05		18	GHz
Insertion Loss	0.05-18	-	0.24	0.75	dB
VSWR	0.05-18	-	1.1	1.35	:1

MAXIMUM RATINGS

Parameter	Ratings		
Operating Case Temperature	-55 °C to +100 °C		
Storage Temperature	-55 °C to +100 °C		
DC input Voltage	200 V		

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





Inner DC Block

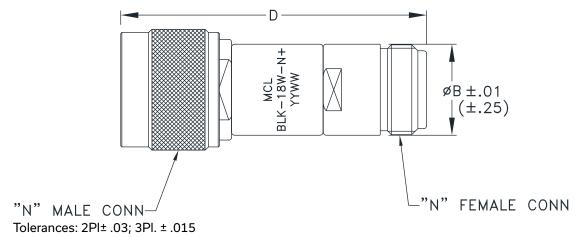
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CONNECTOR SPECIFICATIONS

Description	Connector 1	Connector 2		
Connector Type	N-Female	N-Male		
Orientation	Straight			
Impedance	50 Ω			
Housing	Passivated Stainless Steel			
Contact	Beryllium Copper, Gold Plated			
Dielectric	High Temp Plastic			

OUTLINE DRAWING



OUTLINE DIMENSIONS

	Α	В	С	D	Weight Grams
inches	_	.63	_	2.07	Grams
mm	_	16.00	_	52.6	70.84

Tolerances in inches (mm). Tolerances: 2Pl±.03; 3Pl.±.015