COAXIAL

Adapter

NF-BM50+

50Ω DC to 2 GHz N-Female to BNC-Male

FEATURES

- Excellent VSWR, 1.05:1 typ.
- Low insertion loss, 0.06 dB typ.
- Brass body, nickel plated

Generic photo used for illustration purposes only

Model No.	NF-BM50+
Case Style	DJ1011
Connectors	N-Female to BNC Male

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

APPLICATIONS

- Interconnection of RF cables and equipment
- Connector saver

ELECTRICAL SPECIFICATIONS T_{AMB}=25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	DC	-	2	GHz
Insertion Loss	DC-2	-	0.06	-	dB
VSWR	DC-2	-	-	1.15	:1

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C

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

REV. B
ECO-016681
NF-BM50+
MCL NY
230130

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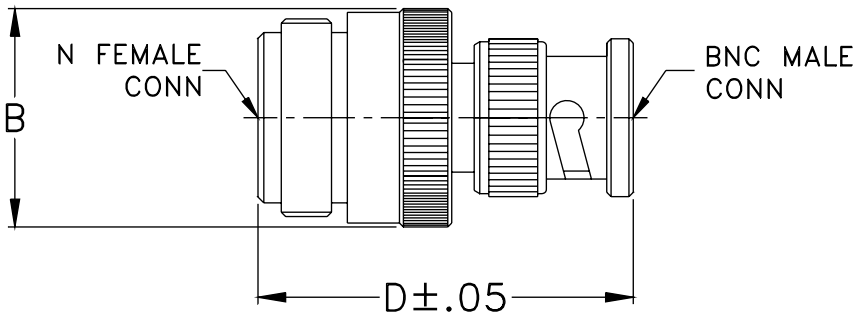
OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch / mm)

A	B	C	D	E	wt
--	.68	--	1.36	--	grams
--	17.27	--	34.54	--	31.8

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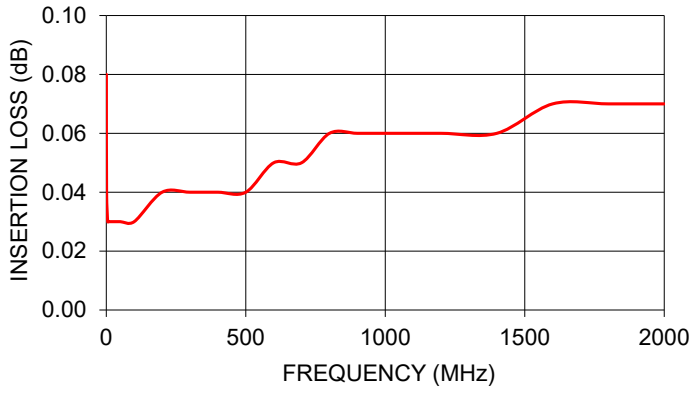
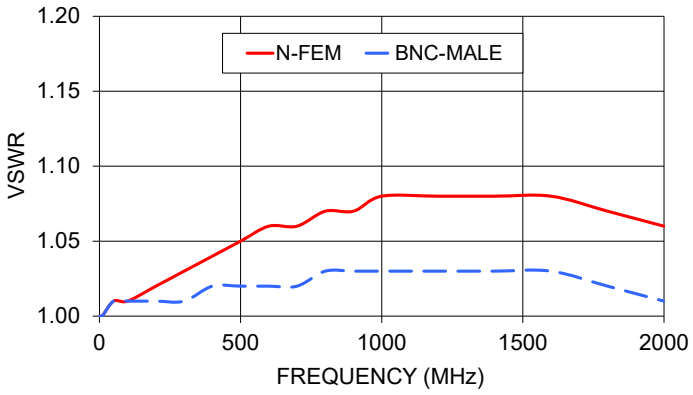
TYPICAL PERFORMANCE DATA

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		N-Female	BNC-Male
0.30	0.08	1.00	1.00
1.00	0.04	1.00	1.00
5.00	0.03	1.00	1.00
10.00	0.03	1.00	1.00
50.00	0.03	1.01	1.01
100.00	0.03	1.01	1.01
200.00	0.04	1.02	1.01
300.00	0.04	1.03	1.01
400.00	0.04	1.04	1.02
500.00	0.04	1.05	1.02
600.00	0.05	1.06	1.02
700.00	0.05	1.06	1.02
800.00	0.06	1.07	1.03
900.00	0.06	1.07	1.03
1000.00	0.06	1.08	1.03
1200.00	0.06	1.08	1.03
1400.00	0.06	1.08	1.03
1600.00	0.07	1.08	1.03
1800.00	0.07	1.07	1.02
2000.00	0.07	1.06	1.01

NF-BM50+
INSERTION LOSS



NF-BM50+
VSWR



NOTES

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html

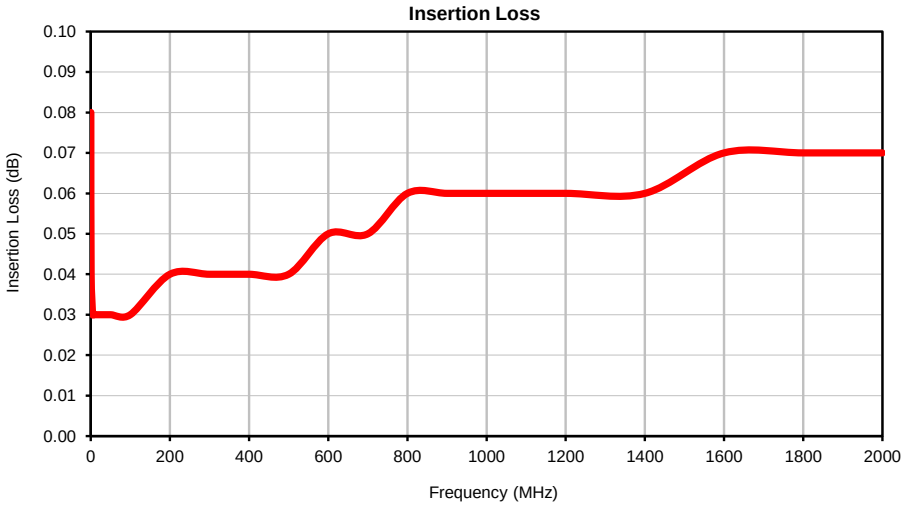
Adapter, N Female to BNC Male NF-BM50+

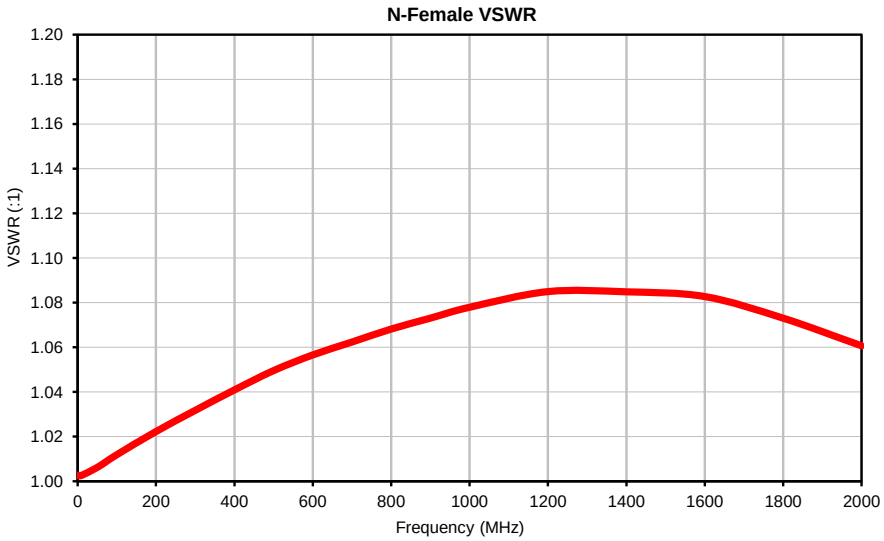
Typical Performance Data

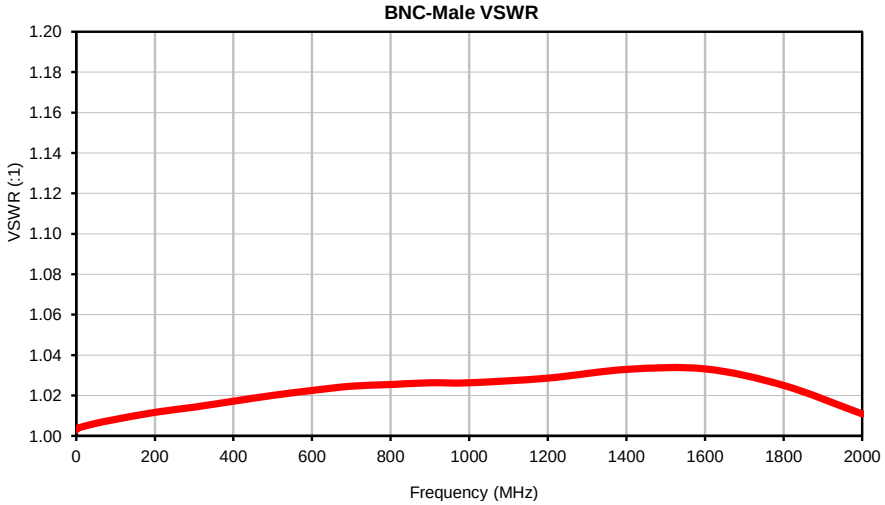
FREQUENCY (MHz)	INSERTION LOSS (dB)	N-FEMALE VSWR (:1)	BNC-MALE VSWR (:1)
0.3	0.08	1.00	1.00
1.0	0.04	1.00	1.00
5.0	0.03	1.00	1.00
10	0.03	1.00	1.00
50	0.03	1.01	1.01
100	0.03	1.01	1.01
200	0.04	1.02	1.01
300	0.04	1.03	1.01
400	0.04	1.04	1.02
500	0.04	1.05	1.02
600	0.05	1.06	1.02
700	0.05	1.06	1.02
800	0.06	1.07	1.03
900	0.06	1.07	1.03
1000	0.06	1.08	1.03
1200	0.06	1.08	1.03
1400	0.06	1.08	1.03
1600	0.07	1.08	1.03
1800	0.07	1.07	1.02
2000	0.07	1.06	1.01

Adapter, N Female to BNC Male NF-BM50+

Typical Performance Curves



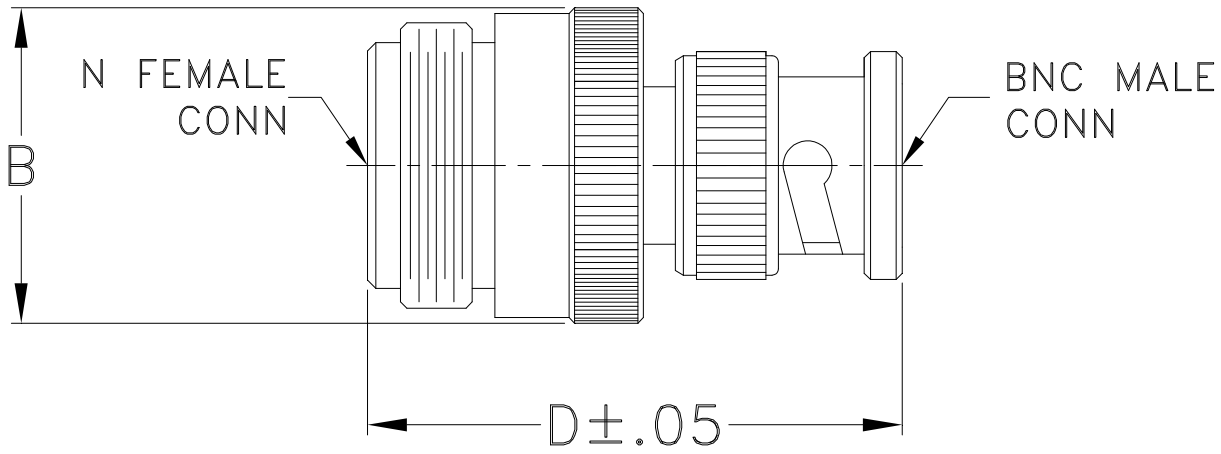




Case Style DJ

DJ1011

Outline Dimensions



CASE#	A	B	C	D	E	WT. GRAM
DJ1011	-- --	.68 (17.27)	-- --	1.36 (34.54)	-- --	31.8

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

Notes:

1. Case material: Brass.
2. Finish: Nickel plate.

Mini-Circuits

Environmental Specifications ENV28

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I