

Coaxial

DC Block BNC

BLK-222-75+

75Ω 10 MHz to 2.2 GHz



CASE STYLE: FF747

BNC Connectors	Model
Female-Male	BLK-222-75+

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
DC Input Voltage	100V Max.

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

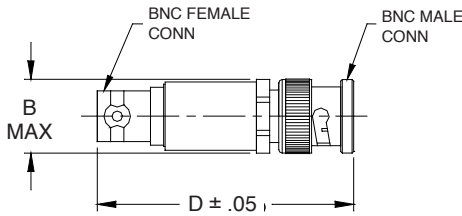
Features

- low insertion loss
- rugged unibody construction
- off-the-shelf availability

Applications

- Industrial Microwave & RF
- test and measurement instrumentation
- communication systems
- defense systems

Outline Drawing



Electrical Specifications at 25°C

FREQUENCY (MHz)	INSERTION LOSS (dB)		RETURN LOSS (dB)	
	Typ.	Max.	Typ.	Min.
10 - 100	0.02	0.10	44	33
100 - 500	0.05	0.20	30	22
500 - 1000	0.08	0.30	25	17
1000 - 2200	0.15	0.70	23	16

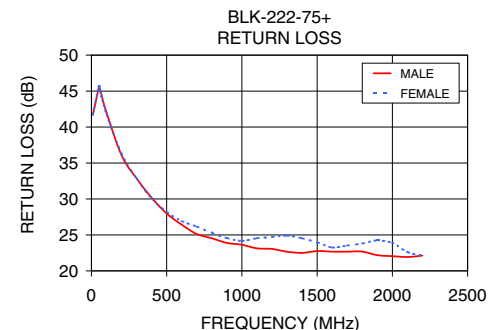
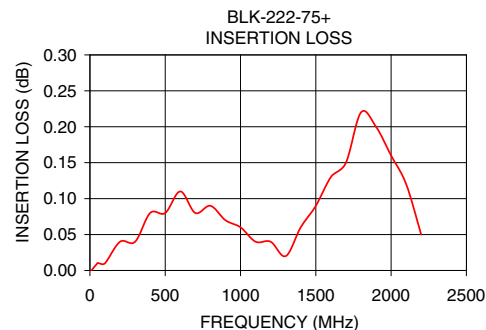
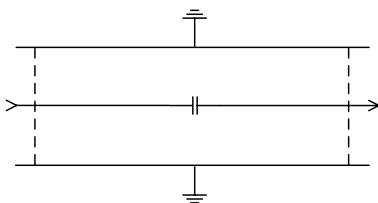
Outline Dimensions (inch/mm)

B	D	wt.
.62	1.94	grams
15.75	49.28	30.0

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	
		Male	Female
10	0.00	41.72	41.71
50	0.01	45.46	45.67
100	0.01	42.05	41.79
200	0.04	36.07	36.30
400	0.08	30.17	30.06
500	0.08	27.98	28.22
600	0.11	26.42	26.92
800	0.09	24.53	25.31
900	0.07	23.89	24.56
1000	0.06	23.63	24.18
1200	0.04	23.05	24.72
1400	0.06	22.50	24.53
1500	0.09	22.75	23.96
1600	0.13	22.67	23.24
1800	0.22	22.68	23.81
1900	0.20	22.18	24.24
2200	0.05	22.13	22.12

Electrical Schematic



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- 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/MCLStore/terms.jsp



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BLK-222-75+
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Typical Performance Data

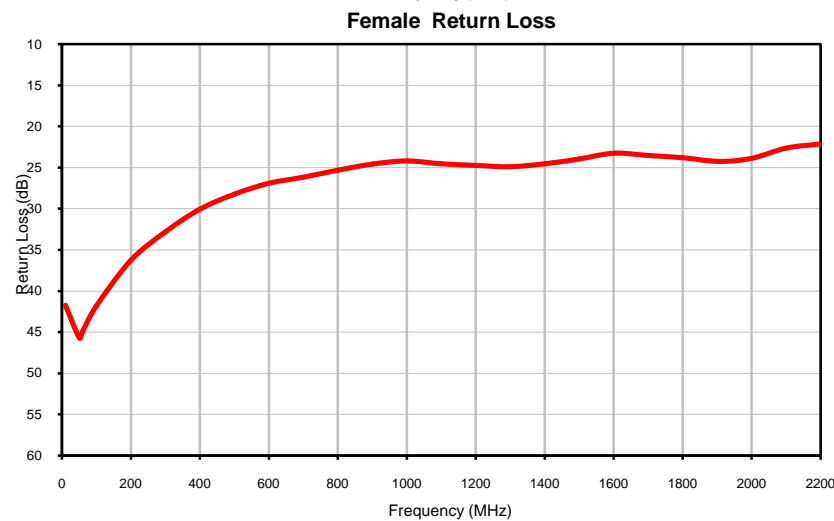
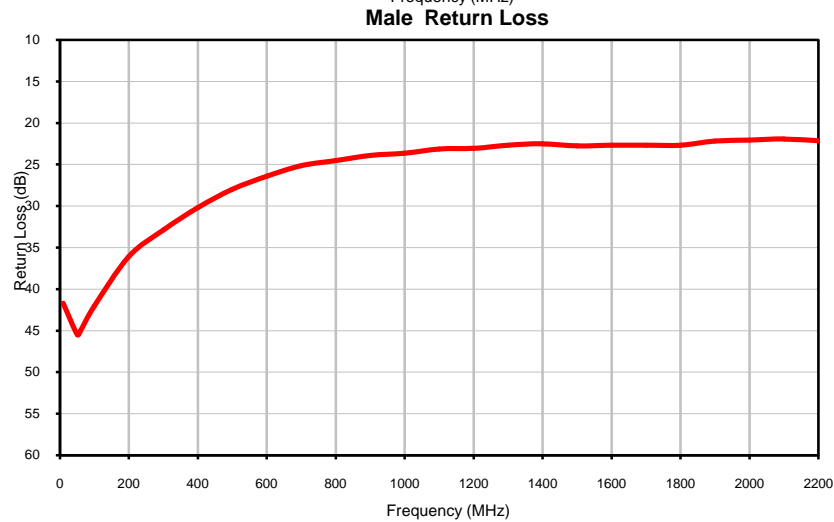
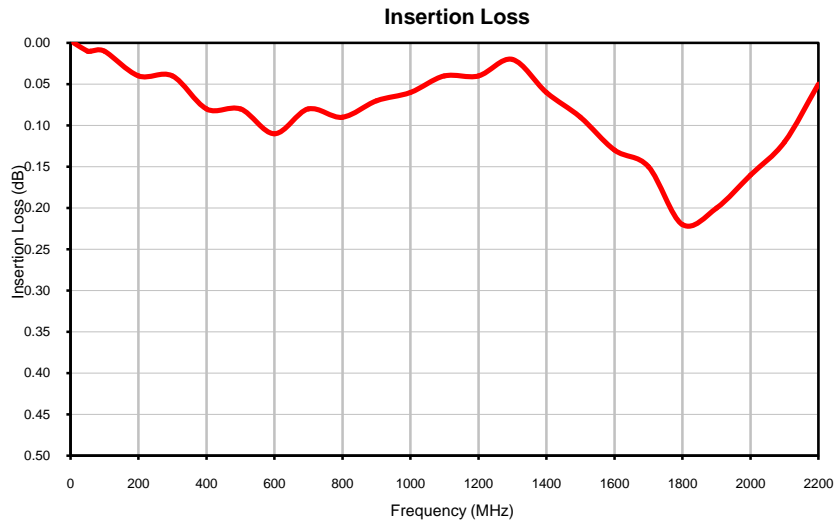
FREQUENCY (MHz)	INSERTION LOSS (dB)	MALE RETURN LOSS (dB)	FEMALE RETURN LOSS (dB)
10	0.00	41.72	41.71
50	0.01	45.46	45.67
60	0.01	45.02	44.87
100	0.01	42.05	41.79
200	0.04	36.07	36.30
300	0.04	32.87	32.81
400	0.08	30.17	30.06
500	0.08	27.98	28.22
600	0.11	26.42	26.92
700	0.08	25.13	26.16
800	0.09	24.53	25.31
900	0.07	23.89	24.56
1000	0.06	23.63	24.18
1100	0.04	23.13	24.53
1200	0.04	23.05	24.72
1300	0.02	22.66	24.89
1400	0.06	22.50	24.53
1500	0.09	22.75	23.96
1600	0.13	22.67	23.24
1700	0.15	22.67	23.51
1800	0.22	22.68	23.81
1900	0.20	22.18	24.24
2000	0.16	22.05	23.88
2100	0.12	21.92	22.62
2200	0.05	22.13	22.12

Notes

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- 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/MCLStore/terms.jsp



Typical Performance Curves



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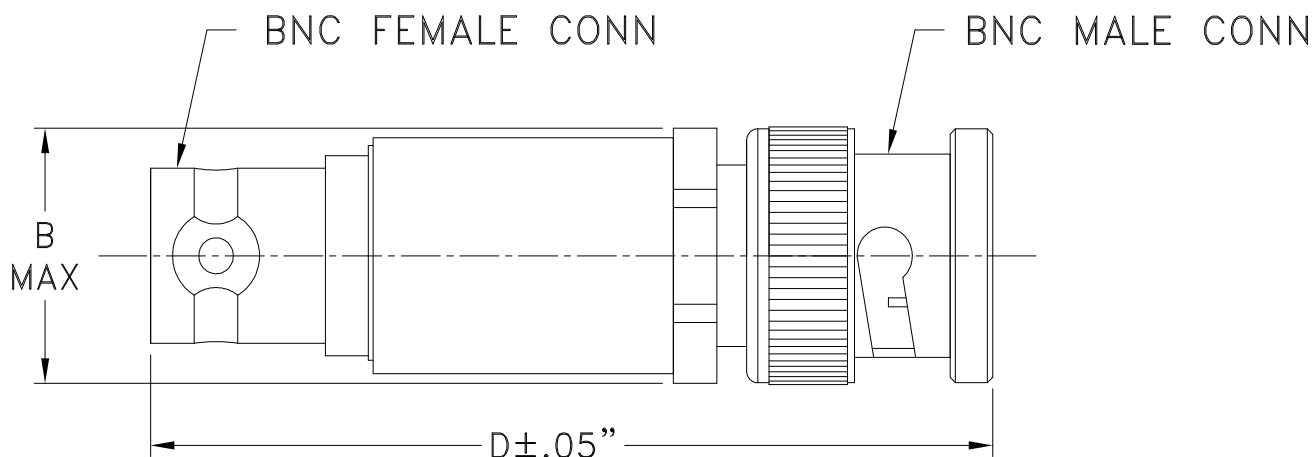


Case Style

FF

Outline Dimensions

FF747



CASE #.	A	B	C	D	E	WT GRAMS
FF747	--	.62 (15.75)	--	1.94 (49.28)	--	30.0

Dimensions are in inches (mm). Tolerances: 2Pl. ± .04; 3Pl. ± .030

Notes:

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

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RF/IF MICROWAVE COMPONENTS

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