

Termination BNC

50Ω

DC to 2000 MHz

BTRM-50+



CASE STYLE: LL85

Connectors	Model
BNC-Male	BTRM-50+

Maximum 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.

Features

- wideband, DC to 2000 MHz
- return loss, 30 dB typ. up to 1000 MHz
- rugged construction

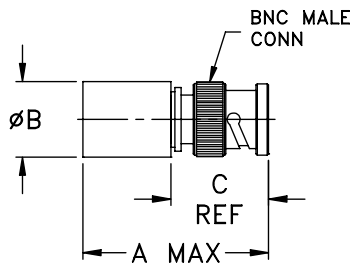
Applications

- cellular communications
- satellite communications
- test set-up

+RoHS Compliant

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

Outline Drawing



Electrical Specifications

FREQUENCY (MHz)	IMPEDANCE (OHMS)	RETURN LOSS (dB) MIN.			POWER RATING* (W)
		DC-.5 GHz	DC-1 GHz	DC-2 GHz	
DC-2000	50	35	30	21	0.5

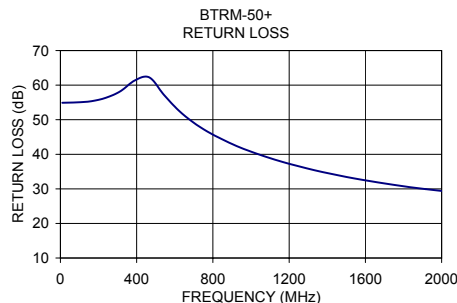
* At 70°C, derate linearly at 5mW/°C to 350mW at 100°C.

Outline Dimensions (inch/mm)

A	B	D	wt
1.46	.58	.75	grams
37.08	14.73	19.05	21.5

Typical Performance Data

Frequency (MHz)	Return Loss (dB)
10.00	54.89
86.15	55.01
162.31	55.35
238.46	56.34
314.62	58.22
390.77	61.38
466.92	62.22
543.08	57.18
619.23	52.72
695.38	49.30
771.54	46.56
847.69	44.35
923.85	42.41
1000.00	40.77
1166.67	37.77
1333.33	35.39
1500.00	33.45
1666.67	31.85
1833.33	30.50
2000.00	29.40



Notes

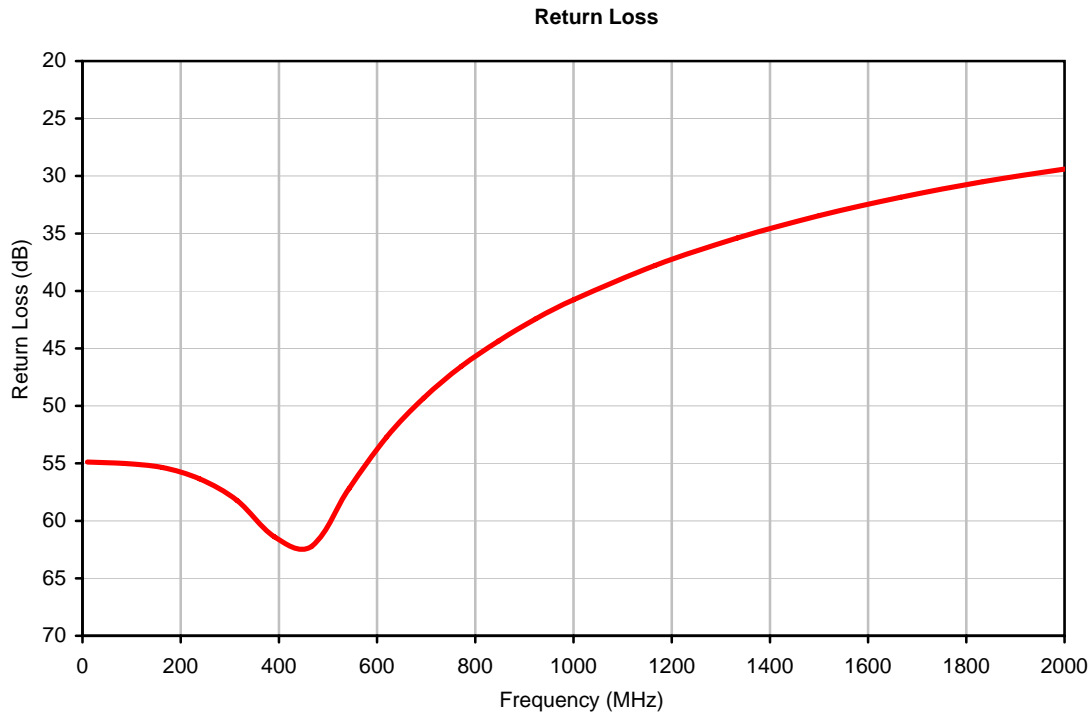
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 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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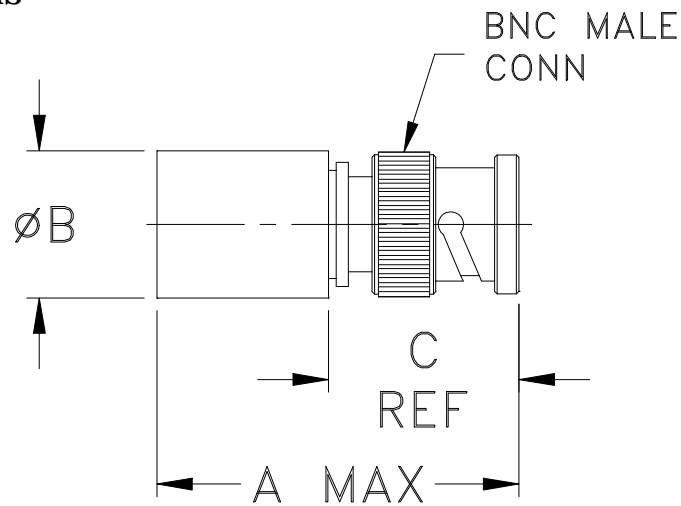
Typical Performance Data

FREQUENCY (MHz)	RETURN LOSS (dB)
10	54.89
86	55.01
162	55.35
238	56.34
315	58.22
391	61.38
467	62.22
543	57.18
619	52.72
695	49.30
772	46.56
848	44.35
924	42.41
1000	40.77
1167	37.77
1333	35.39
1500	33.45
1667	31.85
1833	30.50
2000	29.40

Typical Performance Curves



Outline Dimensions



CASE #.	A	B	C	WT GRAMS
LL85	1.46 (37.08)	.58 (14.73)	.75 (19.05)	21.5

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

Notes:

1. Case material: Brass.
2. BTRM-50+ and BTRM-75+ are catalog models. The material of unit is Brass.



INTERNET <http://www.minicircuits.com>

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Mini-Circuits ISO 9001 & ISO 14001 Certified

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