



Mini-Circuits

COAXIAL

Termination

KARN-50+

50Ω DC to 8 GHz N-Type Male

FEATURES

- Wideband coverage, DC to 8 GHz
- Useable to 9 GHz
- Return Loss, 20 dB typ. at 9 GHz
- Rugged Construction

APPLICATIONS

- Cellular Communications
- Satellite Communications
- Defense Communications
- Test Setup



Generic photo used for illustration purposes only

Model No.	KARN-50+
Case Style	LL718
Connectors	N-Type-Male

+RoHS Compliant

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

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		8	GHz
Impedance		50			Ohms
Return Loss	DC - 0.5	30	—	—	dB
	DC - 1	30	—	—	
	DC - 2	29	—	—	
	DC - 5	27	—	—	
	DC - 8	20	—	—	
Power Rating*	DC - 8	—	—	2	W

*At +70°C, derate linearly at 0.025 W/°C at +100°C.

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. F
ECO-012138
KARN-50+
MCL NY
250407

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www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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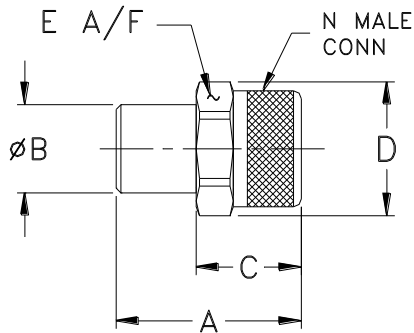
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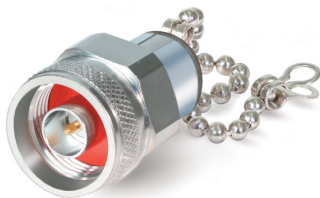
50Ω DC to 8 GHz N-Type Male

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch/mm)

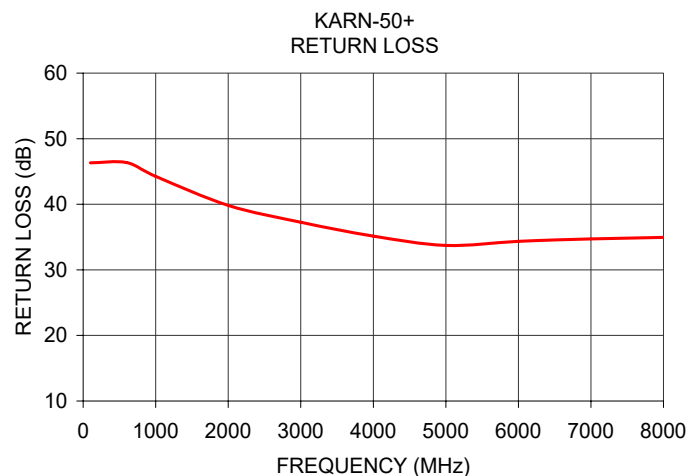
A	B	C	D	E	wt
1.18	0.56	0.67	0.85	0.787	grams
29.97	14.22	17.02	21.59	19.99	30.0



To order KARN-50+ with 3½ length chain and end coupling with .130" diameter mtg. hole, use part no. [KARN-50CN+](#).

TYPICAL PERFORMANCE DATA

Frequency (MHz)	Return Loss (dB)
100	46.31
600	46.36
1000	44.26
2000	39.83
3000	37.27
4000	35.14
5000	33.72
6000	34.35
7000	34.72
8000	34.96



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/terms/viewterm.html

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