

086-SBSMR+ Model Series

DC to 18 GHz 50Ω

The Big Deal

- Hand-formable with 6mm bend radius
- SMA-M right-angle to SMA-F bulkhead connectors
- Excellent return and insertion loss
- Ideal for assembled systems



CASE STYLE: KP1680

Product Overview

086-SBSMR+ Series Hand-Flex coaxial cables are ideal for interconnecting coaxial components and sub-assemblies in a wide range of systems, including communications, military and aerospace, environmental and test chamber systems and more. The hand-formable cable provides a minimum bend radius of 6mm to accommodate tight layouts without the need for bending tools, adapters or brackets. SMA right angle to SMA bulkhead connectors make these cables ideal for perpendicular connections run directly to the front panel of rack-mounted equipment. The connectors feature an anti-torque nut to prevent cable stress during installation and an insulated outer jacket to minimize signal leakage. They are available in a range of lengths to meet a variety of connection requirements.

Feature	Advantages
Hand-formable RF cables	Facilitates the assembly of coaxial systems and sub-systems without the need for special cable-bending tools or adapters. Reduces the risk of damage during bending.
Tight bend-radius	6mm bend-radius makes the cable ideal for connections in tight spaces and crowded layouts.
18 GHz right-angle SMA connector	Meets requirements of 90° connections without bending and without sacrificing high-frequency performance.
18 GHz SMA bulkhead connector	Ideal for making secure connections directly through equipment chassis panels.
Excellent return loss	Suitable for interconnecting a variety of RF components while minimizing VSWR ripple contribution.
Good power handling • 211 W at 0.5 GHz • 35 at 18 GHz	Supports medium to high RF power levels used in transmit paths.
Anti-torque nut	Reduces risk of twist damage to cable during installation.

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-Circuit's standard limited warranty and terms and conditions (collective), "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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp





DC to 18 GHz **50**Ω 8 inch

Maximum Ratings

maximum maximg	0		
Operating Temperature	-58	5°C	to 105°C
Storage Temperature	-58	5°C	to 105°C
Power Handling at 25°C,	211W	at	0.5 GHz
Sea Level	150W	at	1 GHz
	101W	at	2 GHz
	59W	at	6 GHz
	45W	at	10 GHz
	35W	at	18 GHz

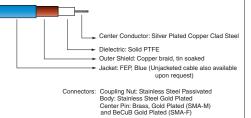
Permanent damage may occur if any of these limits are exceeded.

Outline Drawing REF PLANE ABLE MARKING ON OOSE FITTING SLEEVE IAND-FLEXTM 'ABLE -CONN 1 CONN 2 E · ACROSS FLATS E1 ACROSS FLATS - C2 (D-SHAPE) * OVERALL CONNECTOR DIMENSION (CONNECTOR SHAPE MAY VARY) Ø.256^{+,004} _____ - .236^{+,004} CUT OUT FOR SMA FEMALE BULKHEAD CONNECTOR

Outline Dimensions (inch)

A	B	C1	C2	D	E1
8.0	.51	.438	.232	.36	.313
203.20	12.95	11.13	5.89	9.14	7.95
E2	F	H	T		wt
.250	.108	0.634	0.10		grams
6.35	2.75	16.10	2.54		10.46

Cable Construction



Features

- Wideband frequency coverage, DC to 18 GHz
- Low Loss, .78 dB at 18 GHz
- Excellent Return Loss, 19 dB at 18 GHz · SMA-F bulkhead connector at one end
- · Hand formable to almost any custom shape without special bending tools
- 6mm bend radius for tight installations
- · Anti-torque nut prevents cable stress during installation
- · Insulated outer jacket standard
- Connector interface, meets MIL-STD-348
- · Ideal for interconnect of assembled systems

Applications

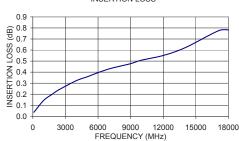
- · Bulkhead connector mounts on front panel of equipment racks
- · Replacement for custom bent 0.086" semi-rigid cables
- Communication receivers and transmitters
- · Military and aerospace system
- · Environmental and test chambers Electrical Specifications at 25°C

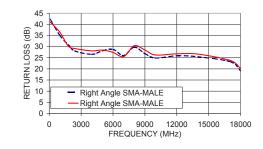
Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		18	GHz
Length ¹			inches		
	DC - 2	—	0.23	0.44	
Insertion Loss	2 - 6	—	0.41	0.77	dB
lisertion Loss	6 - 10	—	0.54	1.02	uр
	10 - 18	—	0.86	1.41	
	DC - 2	23	28	—	
Deturn Lass	2 - 6	23	25	_	-10
Return Loss	6 - 10	17	21	_	dB
	10 - 18	16	19	—	

1. Custom sizes available, consult factory

Typical Performance Data

Frequency Insertion Loss (MHz) (dB)		Returr (d	n Loss B)
		Right Angle SMA-MALE	SMA-FEMALE BULKHEAD
100	0.04	42.3	41.0
1000	0.14	35.0	36.5
1800	0.20	30.8	30.2
2404	0.24	28.1	29.2
4001	0.32	26.6	28.1
5000	0.36	28.1	28.5
6000	0.40	28.8	27.4
7001	0.43	26.0	25.5
8001	0.45	29.8	30.4
9000	0.48	26.8	28.5
10000	0.51	24.9	26.2
12001	0.55	25.9	26.8
14001	0.62	25.4	26.6
17069	0.77	23.2	23.7
18000	0.78	19.2	20.2





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086-8SBSMR+

CASE STYLE: KP1680-8

Connectors		Model
Conn1	Conn2	
Right Angle SMA-M	SMA-F Bulkhead	086-8SBSMR+

+RoHS Compliant

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

Mini-Circuits

Rev. A M151107 086-8SBSMR+ RS/CP/AM 171019

Typical Performance Data

LOSS SMA-MALE RETURN LOSS (dB) BULKHEAD RETURN LOSS (dB) 100.0 0.04 42.3 41.0 200.0 0.06 43.9 39.3 500.0 0.10 41.0 41.2 600.0 0.11 38.6 37.6 700.0 0.12 38.3 35.4 800.0 0.13 37.7 35.3 900.0 0.14 36.3 36.5 100.0 0.14 36.3 36.5 100.0 0.14 36.3 36.5 100.0 0.14 36.3 36.5 100.0 0.14 36.3 36.5 100.0 0.14 36.3 36.5 100.0 0.14 36.3 36.5 100.0 0.14 36.3 36.5 100.0 0.14 36.3 31.4 250.0 0.20 31.4 30.6 2000.0 0.22 29.3 31.4 2550.0 0.28 27.5	
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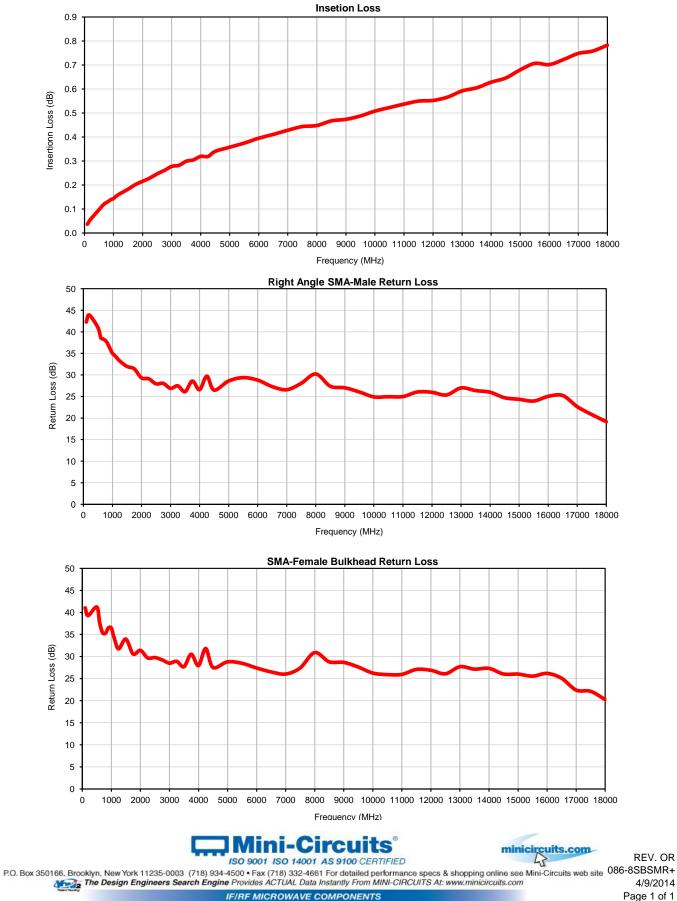


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IF/RF MICROWAVE COMPONENTS

REV. OR

Hand-Flex Coaxial Cable, Right Angle SMA-M/SMA-F Bulkhead 086-8SBSMR+



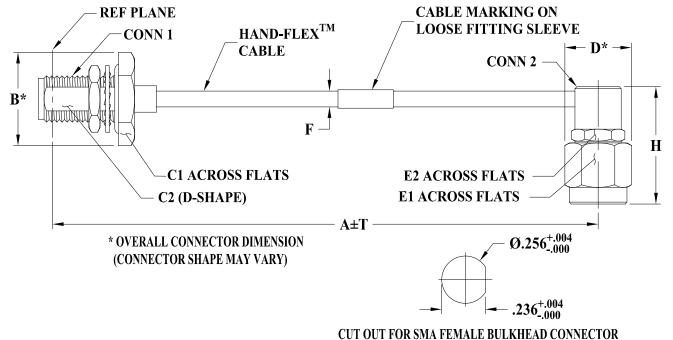
Typical Performance Data

Page 1 of 1

Case Style

KP1680

Outline Dimensions



PANEL THICKNESS .100 MAX INCHES

KP1680 SERIES BULKHEAD SMA FEMALE (CONN-1) RIGHT ANGLE SMA MALE (CONN-2)

CASE	A	Ι]	F	G		Т		WEIGHT																
STYLE #	INCH	MM	В	C1	C2	D	EI	E1 E2	086U- ASMRSM+	086- ASMRSM+	G	Н	INCH	MM	GRAMS																
KP1680-2	2.00	50.80											.05	1.27	7.71																
KP1680-3	3.00	76.20											.05	1.27	8.17																
KP1680-4	4.00	101.60		120	222	26	212	250	0001 (000	100 100 1		(2)	.05	1.27	8.63																
KP1680-5	5.00	127.00	.51 (12.95)	.438 (11.13)	.232 (5.89)	.36 (9.14)	.313 (7.95)	.250 (6.35)	.089∀.002 (2.26∀.05)	.108 NOM (2.74 NOM)	-	.634 (16.10)	.05	1.27	9.09																
KP1680-6	6.00	152.40																											.05	1.27	9.54
KP1680-8	8.00	203.20														[.10	2.54	10.46												
KP1680-18	18.00	457.20											.15	3.81	15.03																

Unless otherwise specified dimensions are in inches (mm). Tolerances: 2Pl. ±.03; 3Pl. ±.015

Note:

1. 086 Hand-FlexTM Coaxial Cable.

2. "A" represents length of cable.



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Mini-Circuits Environmental Specifications ENV52

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 105° C or -55° to 85° C (see datasheet) Ambient Environment	Individual Model Data sheet
Storage Temperature	-55° to 105° C or -55° to 85° C (see data sheet) Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 100 Cycles	MIL-STD-202F; Method 107G
Multiple Bend Radius	40 mm, 5 times for 141 series cables 30 mm, 5 times for 086 series cables	
Single Bend Radius	8 mm for 141 series cables 6 mm for 086 series cables	

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