COAXIAL

Adapter

KM-KM50-T+

50Ω DC to 40 GHz 2.92 mm-Male to 2.92 mm-Male

KEY FEATURES

- Wideband, DC to 40 GHz
- Low Insertion Loss, 0.1 dB typ.
- Excellent VSWR, 1.03:1 typ.
- Straight Body
- Coupling nut for torquing

Generic photo used for illustration purposes only

PRODUCT OVERVIEW

Mini-Circuits' KM-KM50-T+ is a coaxial 2.92 mm Male to 2.92 mm Male adapter supporting a wide range of applications from DC to 40 GHz. This model provides excellent VSWR and low insertion loss versus frequency. The KM-KM50-T+ features passivated stainless-steel construction as well as a coupling nut in the body for torquing, and measures only 0.86" in length.

ELECTRICAL SPECIFICATIONS AT +25°C

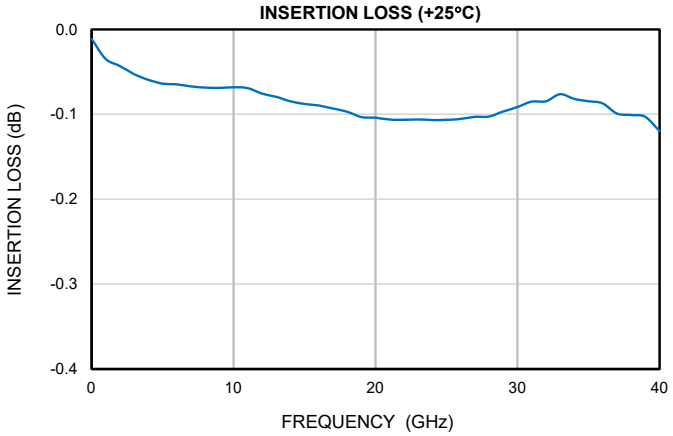
Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		40	GHz
Insertion Loss	DC-10	-	0.1	0.4	dB
	10-20	-	0.1	0.4	
	20-30	-	0.1	0.4	
	30-40	-	0.1	0.4	
VSWR	DC-10	-	1.03	1.2	:1
	10-20	-	1.02	1.2	
	20-30	-	1.03	1.2	
	30-40	-	1.03	1.2	

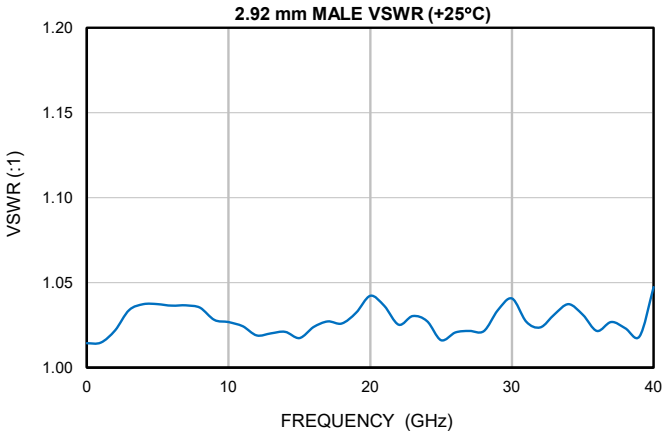
ABSOLUTE MAXIMUM RATINGS[1]

Operating Case Temperature	-45°C to +125°C
Storage Temperature	-45°C to +125°C

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

TYPICAL PERFORMANCE GRAPHS





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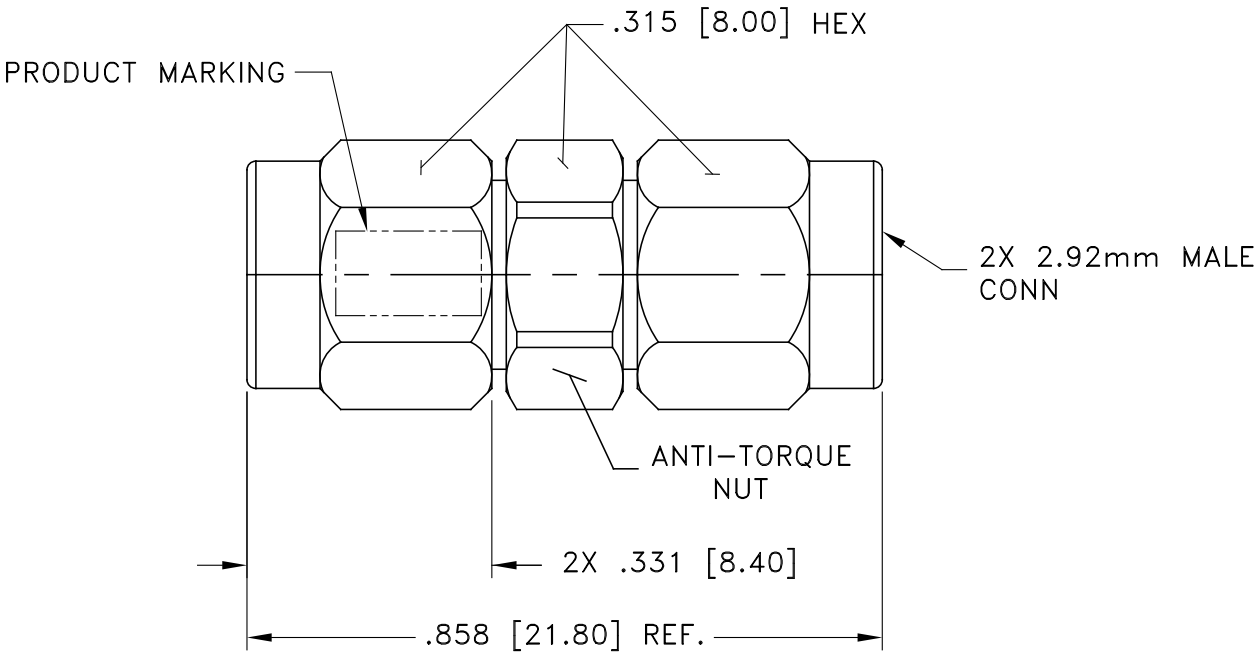
CONNECTOR SPECIFICATIONS

Description	Connector 1	Connector 2
Connector Type	2.92 mm Male	2.92 mm Male
Orientation	Straight	Straight

CASE STYLE DRAWING



Weight: 17.1 grams
Dimensions are in inches [mm]. Tolerances: 2 Pl.±.030; 3 Pl. ±.015 Inch

PRODUCT MARKING*: KM-KM50-T+

*Marking may contain other features or characters for internal lot control.

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50Ω DC to 40 GHz 2.92 mm-Male to 2.92 mm-Male

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD CLICK HERE

Performance Data & Graphs	Data Graphs S-Parameter (S2P Files) Data Set (.zip file)
Case Style	DJ1862-1
RoHS Status	Compliant
Environmental Ratings	ENV147

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-Circuits' 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 https://www.minicircuits.com/terms/viewterm.html

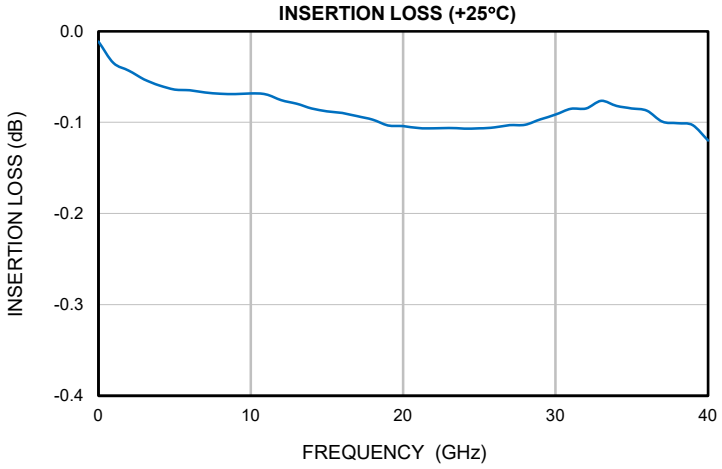
Torque Nut Adapter 2.92 mm Male to 2.92 mm Male — KM-KM50-T+

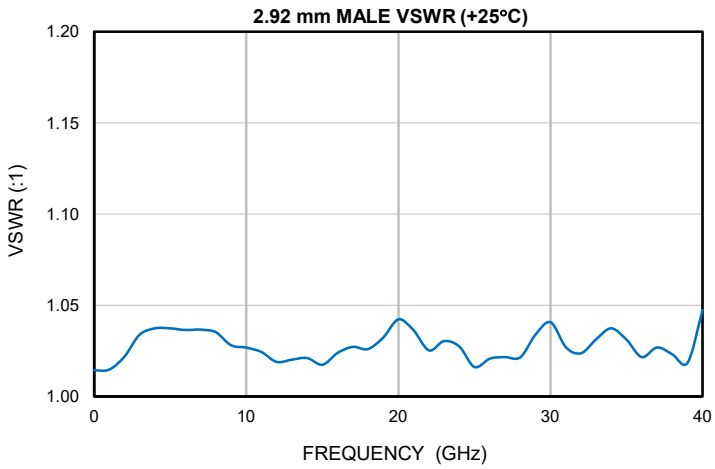
Typical Performance Data

FREQ.	INSERTION LOSS	2.92 mm MALE VSWR	2.92 mm MALE VSWR
(GHz)	(dB)	(:1)	(:1)
0	-0.01	1.01	1.01
1	-0.03	1.01	1.02
2	-0.04	1.02	1.02
3	-0.05	1.03	1.04
4	-0.06	1.04	1.04
5	-0.06	1.04	1.04
6	-0.06	1.04	1.04
7	-0.07	1.04	1.04
8	-0.07	1.04	1.03
9	-0.07	1.03	1.03
10	-0.07	1.03	1.02
11	-0.07	1.02	1.02
12	-0.08	1.02	1.02
13	-0.08	1.02	1.02
14	-0.08	1.02	1.02
15	-0.09	1.02	1.02
16	-0.09	1.02	1.02
17	-0.09	1.03	1.03
18	-0.10	1.03	1.03
19	-0.10	1.03	1.03
20	-0.10	1.04	1.04
21	-0.11	1.04	1.04
22	-0.11	1.03	1.03
23	-0.11	1.03	1.03
24	-0.11	1.03	1.02
25	-0.11	1.02	1.01
26	-0.11	1.02	1.02
27	-0.10	1.02	1.02
28	-0.10	1.02	1.03
29	-0.10	1.03	1.03
30	-0.09	1.04	1.03
31	-0.08	1.03	1.03
32	-0.08	1.02	1.04
33	-0.08	1.03	1.03
34	-0.08	1.04	1.02
35	-0.08	1.03	1.03
36	-0.09	1.02	1.03
37	-0.10	1.03	1.02
38	-0.10	1.02	1.02
39	-0.10	1.02	1.02
40	-0.12	1.05	1.04

Torque Nut Adapter 2.92 mm Male to 2.92 mm Male KM-KM50-T+

Typical Performance Curves

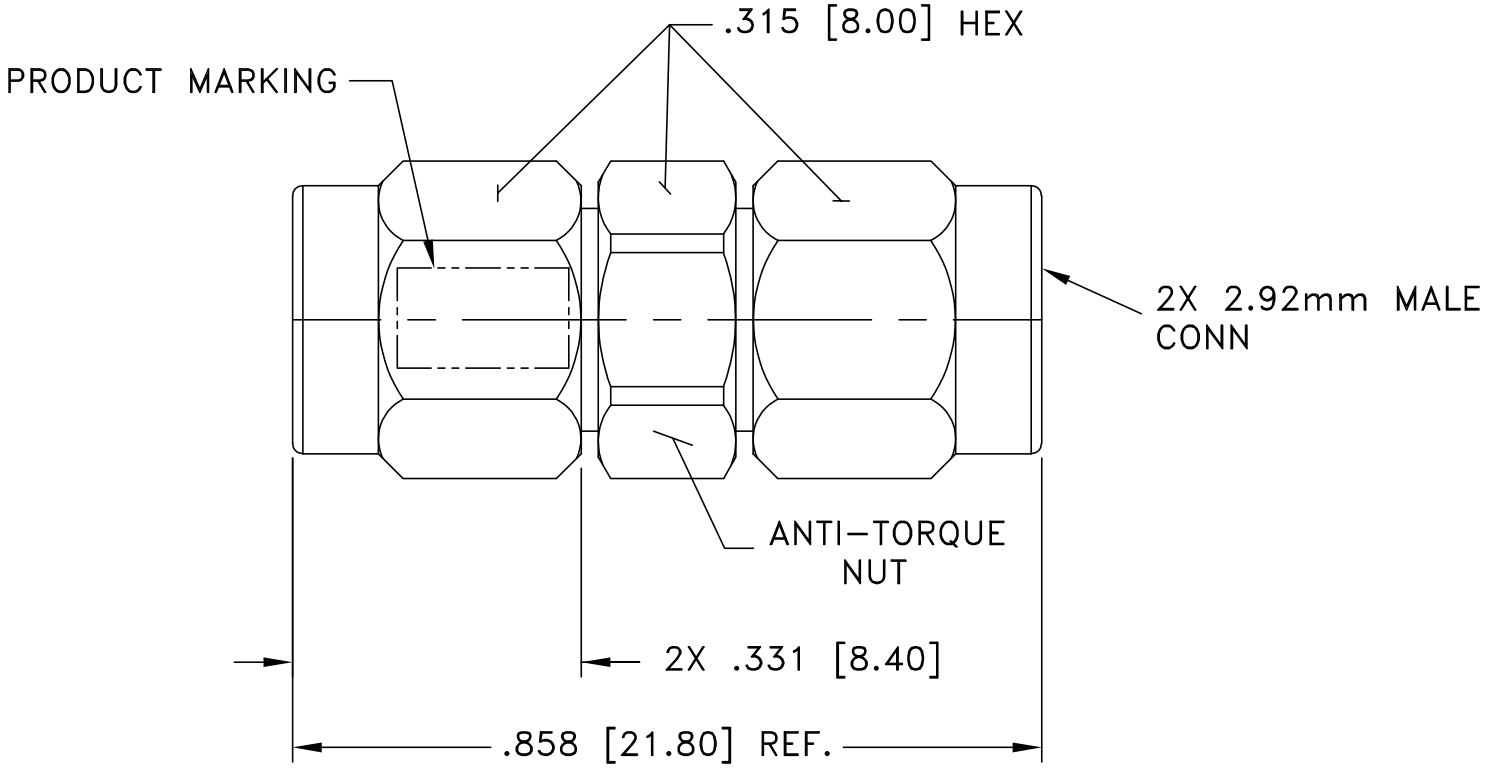




Case Style DJ

Outline Dimensions

DJ1862-1



Weight: 17.1 grams

Dimensions are in inches [mm]. Tolerances: 2 Pl.±.030; 3 Pl. ±.015 Inch

Notes:

Case material:	Stainless steel.
Case Finish:	Passivated.

Mini-Circuits

Environmental Specifications ENV147

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	-45° C to 125° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-45° C to 125° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-45° to 125°C, 5 Cycles	MIL-STD-202, Method 107, Condition B except over -45° to 125°C
Connector Durability	500 mating/unmating cycles	MIL-PRF-39012E, PARAGRAPH 4.6.12