COAXIAL

Adapter

DINF-DINF+

50Ω DC to 6 GHz DIN Female to DIN Female

KEY FEATURES

- Ultra-Wideband, DC to 6 GHz
- Low Insertion Loss, 0.02 dB Typ. to 6 GHz
- Excellent VSWR, 1.15:1 Typ. to 6 GHz
- Straight Body

Generic photo used for illustration purposes only

PRODUCT OVERVIEW

Mini-Circuits' DINF-DINF+ is a coaxial DIN female to DIN female adapter supporting a wide range of applications from DC to 6 GHz. This model provides excellent VSWR and low insertion loss over the frequency band. The DINF-DINF+ features passivated stainless-steel construction with a gold-plated beryllium copper center pin and measures only 1.685" in length.

ELECTRICAL SPECIFICATIONS[1] AT +25 °C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		6	GHz
Insertion Loss	0.01–6	–	0.02	0.25	dB
VSWR	0.01–6	–	1.15	1.20	:1

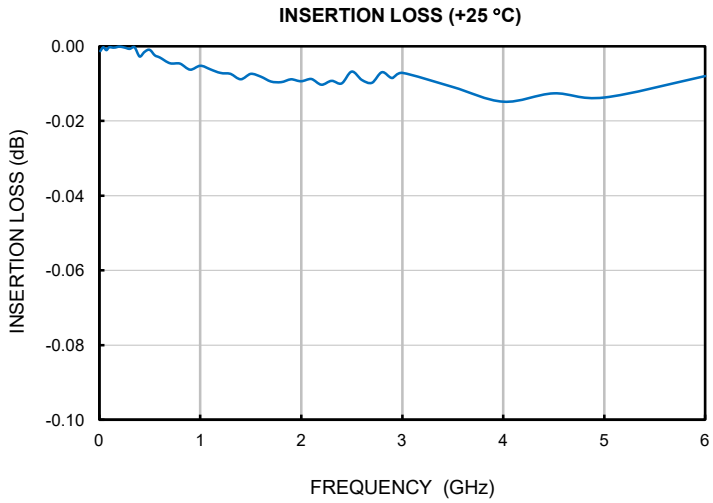
1. Specifications are tested to minimum frequency of 0.01 GHz.

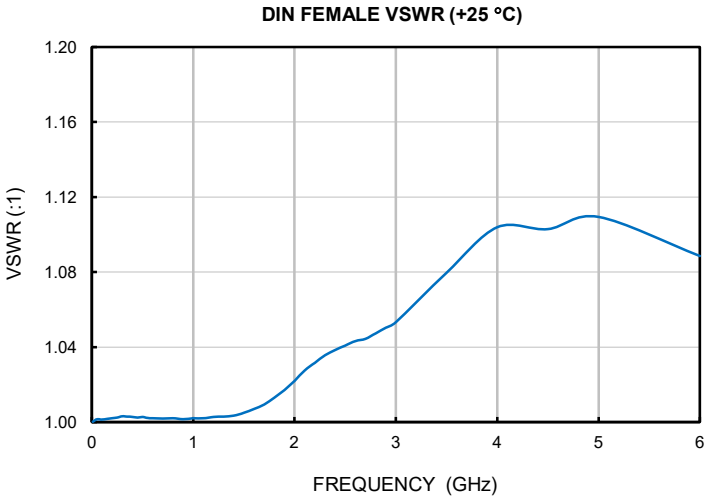
ABSOLUTE MAXIMUM RATINGS[2]

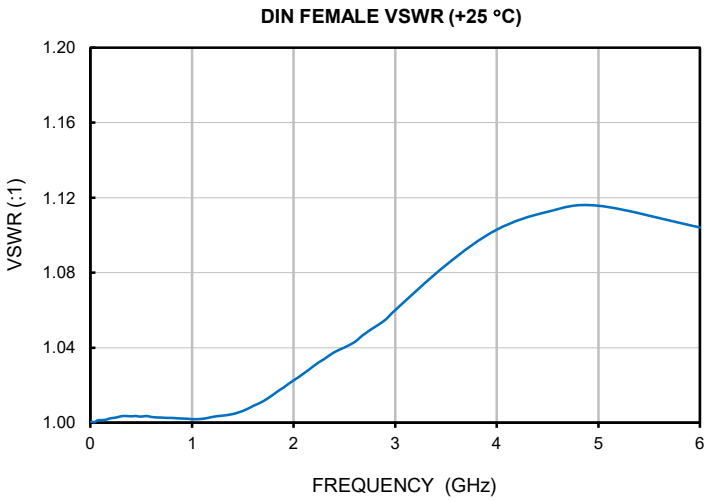
Operating Case Temperature	-45 °C to +125 °C
Storage Temperature	-45 °C to +125 °C

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

TYPICAL PERFORMANCE GRAPHS







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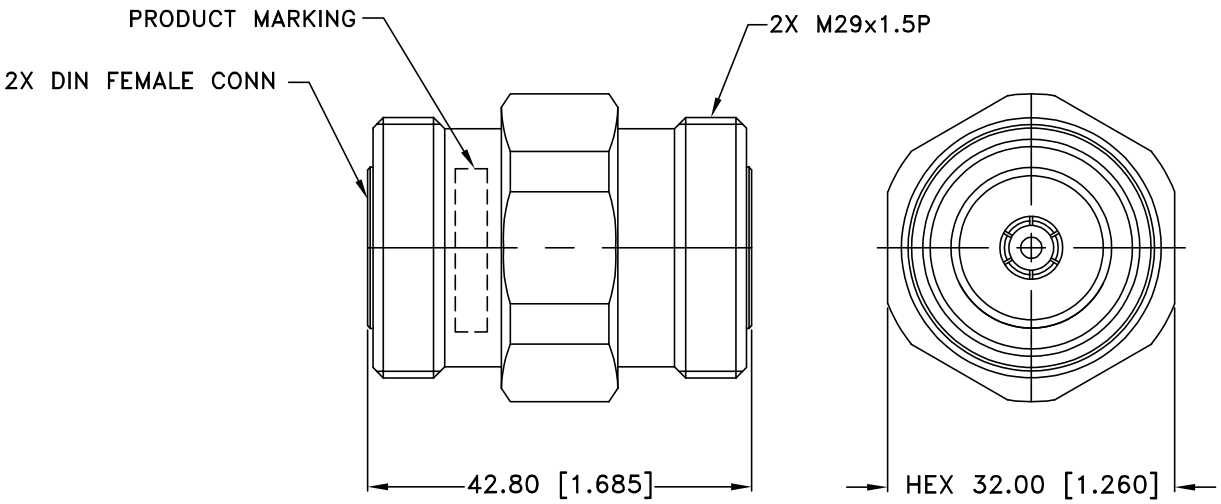
50Ω DC to 6 GHz DIN Female to DIN Female

CONNECTOR SPECIFICATIONS

Description	Connector 1	Connector 2
Connector Type	DIN Female	DIN Female
Orientation	Straight	Straight

CASE STYLE DRAWING



Dimensions are in mm [Inches]. Tolerances: 2 Pl.±0.40 mm

PRODUCT MARKING*: DINF-DINF+

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

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD CLICK HERE

Performance Data & Graphs	Data Graphs S-Parameter (S2P Files) Data Set (.zip file)
Case Style	DJ3847
RoHS Status	Compliant
Environmental Ratings	ENV152

NOTES

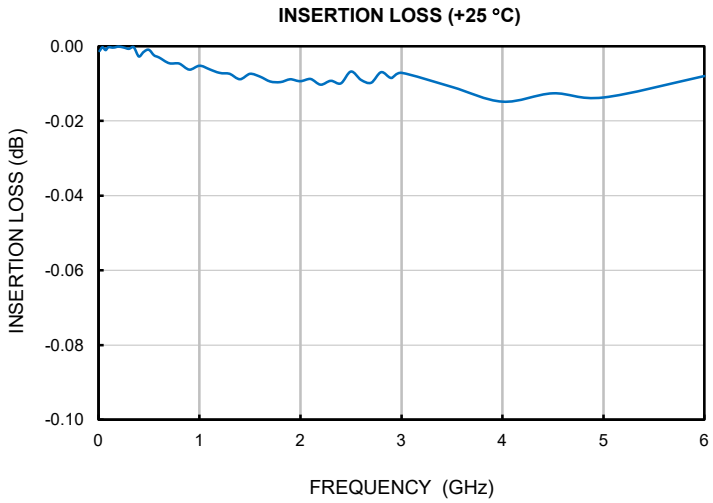
A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' 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 www.minicircuits.com/terms/viewterm.html

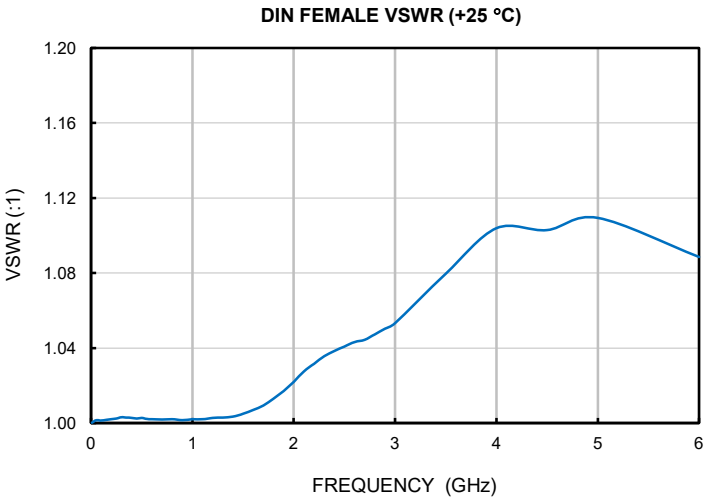
Adapter, DIN-Female to DIN-Female DINF-DINF+

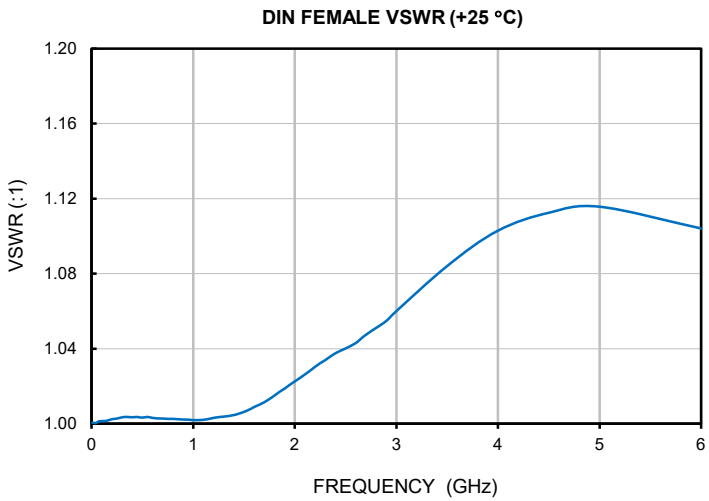
Typical Performance Data

FREQ.	INSERTION LOSS	DIN-FEMALE VSWR	DIN-FEMALE VSWR
(GHz)	(dB)	(:1)	(:1)
0.01	0.00	1.00	1.00
0.04	0.00	1.00	1.00
0.07	0.00	1.00	1.00
0.10	0.00	1.00	1.00
0.15	0.00	1.00	1.00
0.20	0.00	1.00	1.00
0.25	0.00	1.00	1.00
0.30	0.00	1.00	1.00
0.35	0.00	1.00	1.00
0.40	0.00	1.00	1.00
0.45	0.00	1.00	1.00
0.50	0.00	1.00	1.00
0.55	0.00	1.00	1.00
0.60	0.00	1.00	1.00
0.70	0.00	1.00	1.00
0.80	0.01	1.00	1.00
0.90	0.01	1.00	1.00
1.00	0.01	1.01	1.01
1.10	0.01	1.01	1.01
1.20	0.01	1.01	1.01
1.30	0.01	1.01	1.01
1.40	0.01	1.01	1.01
1.50	0.01	1.01	1.01
1.60	0.01	1.01	1.01
1.70	0.01	1.02	1.02
1.80	0.01	1.02	1.02
1.90	0.01	1.02	1.02
2.00	0.01	1.03	1.03
2.10	0.01	1.04	1.03
2.20	0.01	1.04	1.04
2.30	0.01	1.04	1.04
2.40	0.01	1.05	1.04
2.50	0.01	1.05	1.05
2.60	0.01	1.05	1.05
2.70	0.01	1.05	1.05
2.80	0.01	1.06	1.06
2.90	0.01	1.06	1.06
3.00	0.01	1.06	1.07
3.50	0.01	1.09	1.09
4.00	0.01	1.11	1.11
4.50	0.01	1.11	1.11
5.00	0.01	1.12	1.12
6.00	0.00	1.10	1.10

Typical Performance Curves

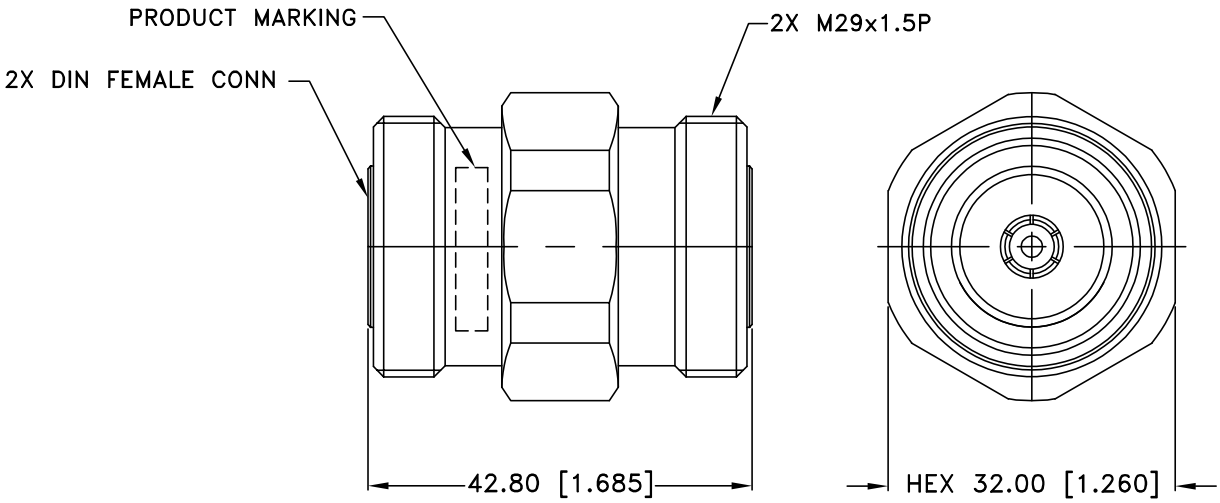






Case Style DJ

Outline Dimensions DJ3847



Dimensions are in MM [INCHES]. Tolerances: 2 Pl.±0.40 mm

Notes:

Case material:	Brass.
Finish:	Tri Metal Alloy Plating.

Mini-Circuits

Environmental Specifications ENV152

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° to +125° C	Individual Model Data Sheet
Storage Temperature	-45° to +125° C	Individual Model Data Sheet
Thermal Shock	-55° to +125° C, 5cycles, 15 min dwell time	MIL-STD-202, Method 107, Condition B except -55° C instead of -65° C
Connector Durability	500 mating/unmating cycles	MIL-PRF-39012E, PARAGRAPH 4.6.12