

Anritsu Advancing beyond

Precision Power Splitters

W241A

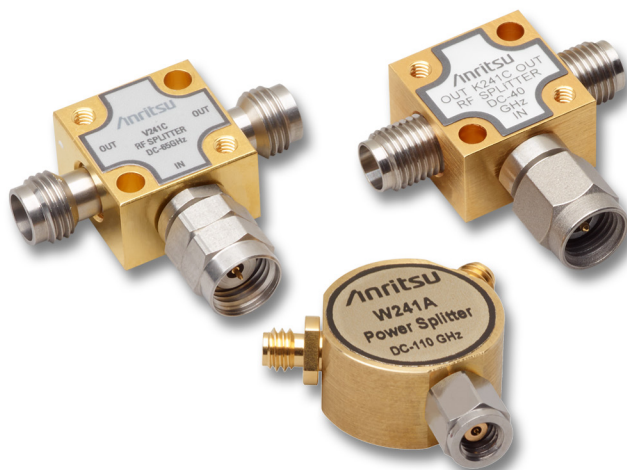
DC to 110 GHz

K241 Series

DC to 40 GHz/DC to 26.5 GHz

V241C

DC to 65 GHz



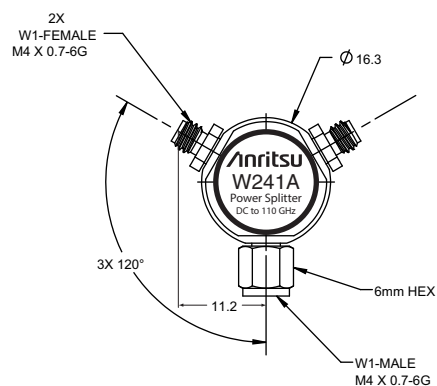
Introduction

Anritsu produces precision power splitters that cover frequencies up to 110 GHz and 1 watt input power. All Anritsu microwave power splitters are symmetrical, two-resistor designs that can be used in applications where signals from DC to 110 GHz must be accurately divided for ratio measurements. They provide excellent flatness and effective output SWR.

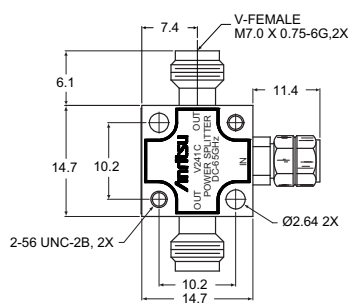
Features

- DC to 110 GHz frequency range
- W1 Connectors™ are compatible with 1 mm connectors
- V Connectors™ are compatible with 2.4 mm connectors
- K Connectors™ are compatible with 3.5 mm and SMA connectors
- Excellent flatness and effective output SWR
- All power splitters are available in 50 Ω characteristic impedance
- Design is robust and well suited for high frequency system and instrumentation applications
- Anritsu offers metrology grade adapters and calibration devices for better repeatability and performance

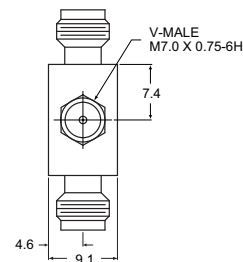
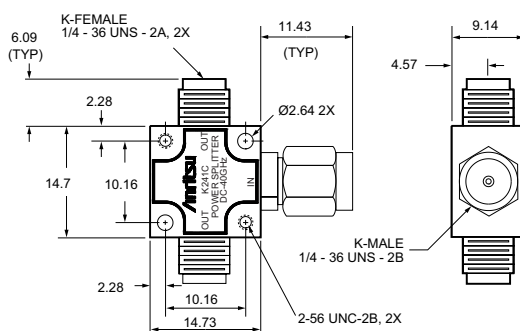
Dimensions



W241A



V241C



K241x

All dimensions in mm

Typical specifications are not tested and are not warranted. They are generally representative of characteristic performance.

Warranty: 1 year; Calibration period: 6 months

Available Models

Model	Frequency Range	Connectors	Impedance	Input Power
W241A	DC to 110 GHz	W1(m) to W1(f)	50 Ω	0.2 W
V241C	DC to 65 GHz	V(m) to V(f)	50 Ω	1.0 W
K241C	DC to 40 GHz	K(m) to K(f)	50 Ω	1.0 W
K241B	DC to 26.5 GHz	K(m) to K(f)	50 Ω	1.0 W

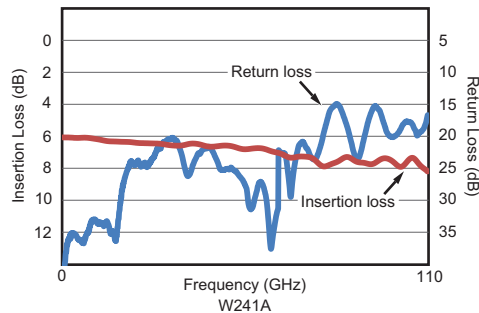
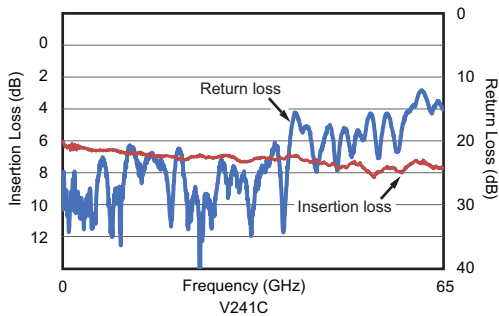
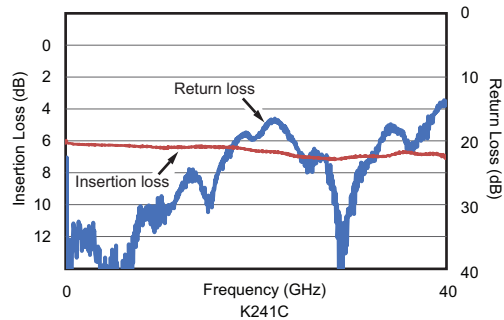
Specifications

General

Insertion Loss Temperature Coefficient	0.001 dB/dB/°C max
Temperature Range	Operating: 0 °C to +70 °C; Non-operating: -55 °C to +125 °C
Weight	W241A: 16 g V241C: 43 g K241C: 43 g K241B: 43 g

Insertion/Return Loss, Match, and Transmission Tracking

Model	Frequency Range	Insertion Loss (max)	Input Return Loss (min)	Effective Output Match (min)	Transmission Tracking Amplitude (max)
W241A	DC to 2.5 GHz	7.00 dB	20.00 dB	18.00 dB	0.25 dB
	> 2.5 GHz to 20 GHz	7.00 dB	20.00 dB	18.00 dB	0.40 dB
	> 20 GHz to 50 GHz	7.50 dB	15.00 dB	14.00 dB	0.40 dB
	> 50 GHz to 67 GHz	8.25 dB	15.00 dB	14.00 dB	0.40 dB
	> 67 GHz to 85 GHz	9.00 dB	10.00 dB	8.00 dB	1.00 dB
	> 85 GHz to 105 GHz	9.00 dB	10.00 dB	8.00 dB	1.00 dB
	> 105 GHz to 110 GHz	9.50 dB	9.00 dB	6.00 dB	1.00 dB
V241C	DC to 18 GHz	8.5 dB	8.95 dB	9.54 dB	
	>18 GHz to 40 GHz	9.5 dB	7.97 dB	8.01 dB	
	>40 GHz to 65 GHz	10.5 dB	6.98 dB	7.04 dB	
K241C	DC to 26.5 GHz	7.5 dB	14.72 dB	14.72 dB	
	>26.5 GHz to 40 GHz	8.5 dB	9.97 dB	11.73 dB	
K241B	DC to 26.5 GHz	7.5 dB	14.72 dB	14.72 dB	



All plots typical.

Environmental (per MIL-STD-202G)

Temperature Shock	–55 °C to +150 °C
Humidity	95% at 40 °C, 96 hours, Test 103B, Condition B
Shock	100 G peak sawtooth, method 213, Condition B
Vibration	Sinewave: 10 Hz to 2000 Hz, 0.06" DA, method 204, test condition D Random: 50 Hz to 2000 Hz, 11.6 Grms, Power Spectral Density 0.1 Grms 2 Hz, Method 214, Test Condition 1, Letter D
Salt Spray ¹	5% concentration for 48 hours, Method 101D, Condition B
Voltage withstanding	500 VAC RMS, 60 seconds, method 301

Regulatory Compliance

European Union	RoHS Directive: 2011/65/EU + Amendment 2015/863
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Ordering Information**Precision Power Splitters**

Part Number	Description
W241A	DC to 110 GHz, W1(m) to W1(f), 50 Ω
W241A-099	Premium Calibration to ISO17025 and ANSI/NCSL Z540-1. Includes calibration certificate, test report, and uncertainty data.
V241C	DC to 65 GHz, V(m) to V(f), 50 Ω
K241C	DC to 40 GHz, K(m) to K(f), 50 Ω
K241B	DC to 26.5 GHz, K(m) to K(f), 50 Ω

1. Salt spray does not apply to the W241A splitters.

Training at Anritsu

Anritsu has designed courses to help you stay up to date with technologies important to your job. For available training courses, visit: www.anritsu.com/training.



• United States

Anritsu Americas Sales Company

490 Jarvis Drive, Morgan Hill, CA 95037-2809, U.S.A.
Phone: (408)-778-2000

• Canada

Anritsu Electronics Ltd.

Americas Sales and Support

490 Jarvis Drive, Morgan Hill, CA 95037-2809, U.S.A.
Phone: +1-800-Anritsu (1-800-267-4878)

• Brazil

Anritsu Elettronica Ltda.

Praça Amadeu Amaral, 27 - 1 Andar
01327-010 - Bela Vista - Sao Paulo - SP, Brazil
Phone: +55-11-3283-2511

• Mexico

Anritsu Company, S.A. de C.V.

Blvd Miguel de Cervantes Saavedra #169 Piso 1,
Col. Granada, Mexico, Ciudad de Mexico,
11520, MEXICO
Phone: +52-55-4169-7104

• United Kingdom

Anritsu EMEA Limited

900 Capability Green,
Luton, Bedfordshire, LU1 3LU, U.K.
Phone: +44-1582-433200

• France

Anritsu SA

12 avenue du Québec, Immeuble Goyave,
91140 VILLEBON SUR YVETTE, France
Phone: +33-1-60-92-15-50

• Germany

Anritsu GmbH

Nemetschek Haus, Konrad-Zuse-Platz 1,
81829 München, Germany
Phone: +49-89-442308-0

• Italy

Anritsu S.R.L.

Spaces Eur Arte, Viale dell'Arte 25, 00144 Roma, Italy
Phone: +39-6-509-9711
List Revision Date: 20260609

• Sweden

Anritsu AB

Kistagången 20 B, 2 tr, 164 40 Kista, Sweden
Phone: +46-8-534-707-00

• Finland

Anritsu AB

Technopolis Aviapolis, Teknobulevardi 3-5 (D208.5.),
FI-01530 Vantaa, Finland
Phone: +358-20-741-8100

• Denmark

Anritsu A/S

c/o Regus Winghouse, Ørestads Boulevard 73, 4th floor,
2300 Copenhagen S, Denmark
Phone: +45-7211-2200

• Austria

Anritsu EMEA GmbH

Am Belvedere 10, A-1100 Vienna, Austria
Phone: +43-(0)1-717-28-710

• United Arab Emirates

Anritsu A/S

Office No. 164, Building 17, Dubai Internet City
P. O. Box - 501901, Dubai, United Arab Emirates
Phone: +971 (0) 4-2424919

• India

ANRITSU INDIA PRIVATE LIMITED

6th Floor, Indique ETA, No.38/4, Adjacent to EMC2,
Doddanekundi, Outer Ring Road,
Bengaluru - 560048, India
Phone: +91-80-6728-1300
Fax: +91-80-6728-1301

• Singapore

ANRITSU PTE LTD

1 Jalan Kilang Timor, #07-04/06 Pacific Tech Centre
Singapore 159303
Phone: +65-6282-2400

• Vietnam

ANRITSU COMPANY LIMITED

16th Floor, Peakview Tower, 36 Hoang Cau Street,
O Cho Dua Ward, Hanoi, Vietnam
Phone: +84-24-3201-2730
Fax: +84-24-3201-2740

• P.R. China (Shanghai)

Anritsu (China) Co., Ltd.

Room 2301-2303, Tower A, New Caohejing
International Business Center No. 391 Gui Ping Road
Shanghai, 200233, P.R. China
Phone: +86-21-6237-0898

• P.R. China (Hong Kong)

ANRITSU COMPANY LIMITED

Unit 1302, 13th Floor, New East Ocean Center,
No.9 Science Museum Road, TsimShaTsui East,
Kowloon, Hong Kong
Phone: +852-2301-4980

• Japan

ANRITSU CORPORATION

8-5, Tamura-cho, Atsugi-shi, Kanagawa, 243-0016 Japan
Phone: +81-46-296-1244
Fax: +81-46-296-1239

• South Korea

Anritsu Corporation, Limited

8F, A TOWER, 20, Gwacheondaero 7-gil, Gwacheon-si,
Gyeonggi-do, 13840, Republic of Korea
Phone: +82-2-6259-7300

• Australia

Anritsu Pty. Ltd.

Unit 20, 21-35 Ricketts Road,
Mount Waverley, Victoria 3149, Australia
Phone: +61-3-9558-8177

• Taiwan

ANRITSU COMPANY, INC.

7F., No. 316, Sec. 1, Neihu Rd., Neihu Dist., Taipei City
114663, Taiwan
Phone: +886-2-8751-1816