

Anritsu Advancing beyond

Precision Power Dividers

W240A

DC to 110 GHz, W1(f)

K240 Series

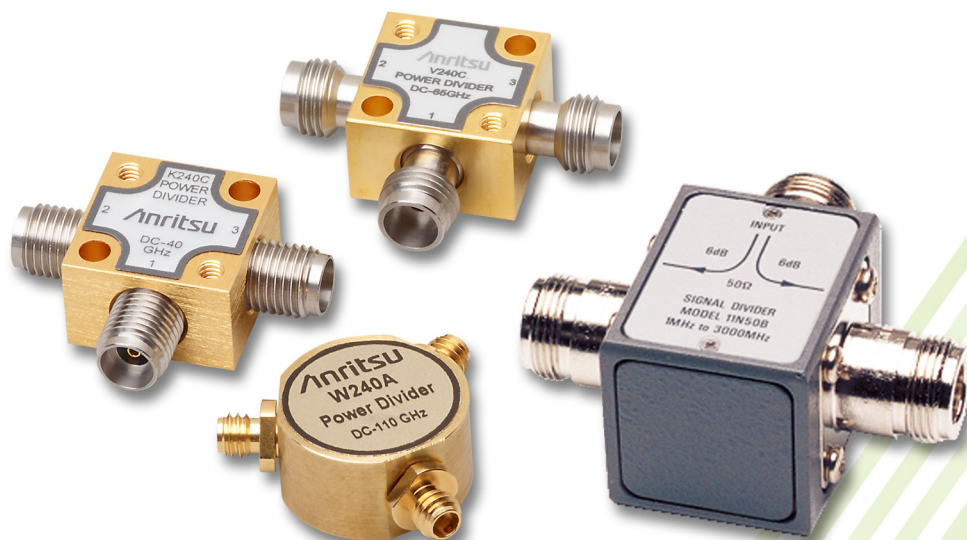
DC to 40 GHz, K(f)

V240C

DC to 65 GHz, V(f)

11N50B

1 MHz to 3 GHz, N(f)



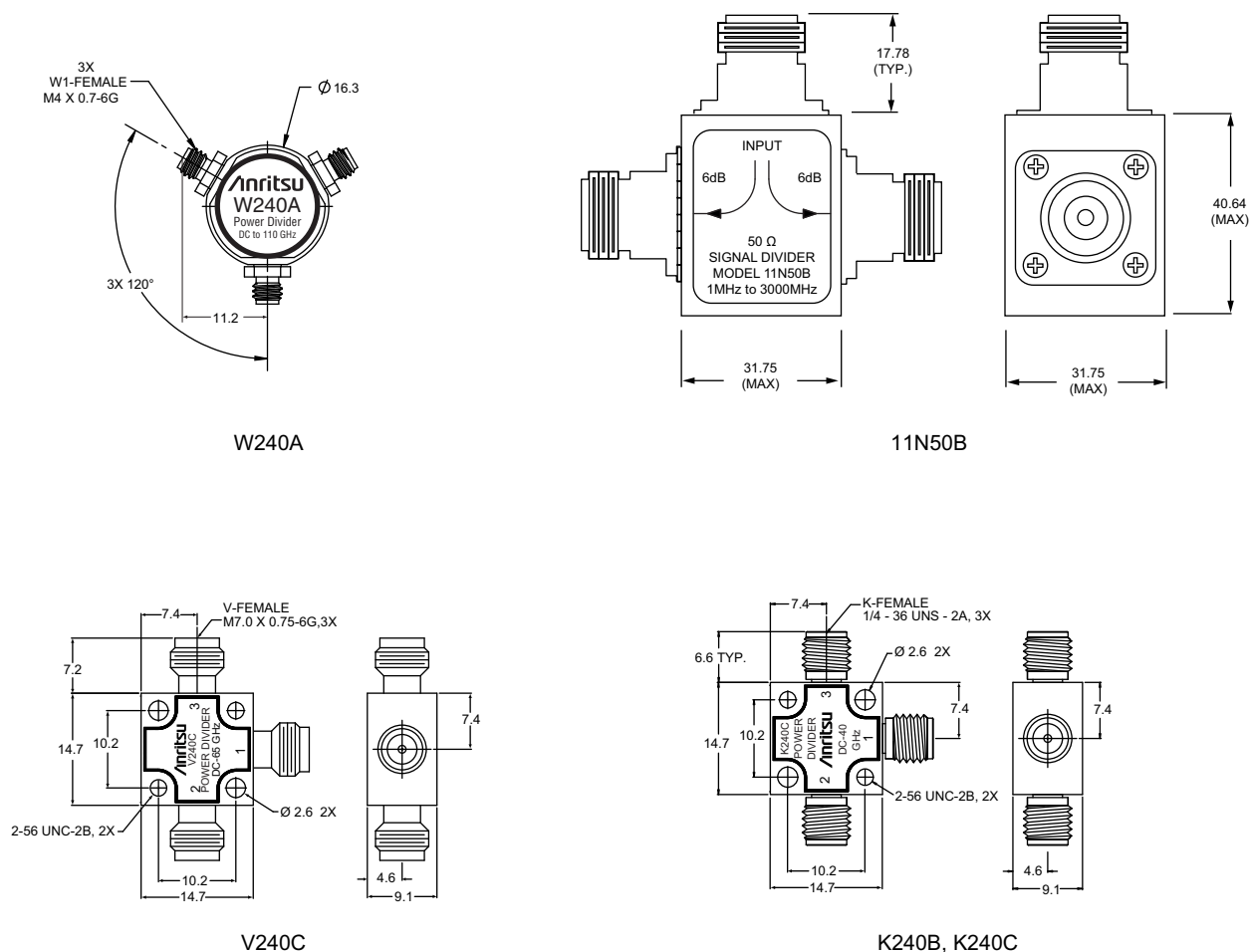
Introduction

Anritsu precision power dividers are produced with N, K, V, and W1 connectors. All models are symmetrical, three-resistor tee designs that can be used in applications where signals up to 110 GHz must be accurately divided or combined.

Features

- DC to 110 GHz frequency range
- W1 Connectors™ are compatible with 1.0 mm connectors
- V Connectors™ are compatible with 2.4 mm connectors
- K Connectors™ are compatible with 3.5 mm and SMA connectors
- All models have exceptional amplitude and tracking characteristics
- 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



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	Max Input Power
W240A	DC to 110 GHz	W1(f) to W1(f)	50 Ω	0.2 W
V240C	DC to 65 GHz	V(f) to V(f)	50 Ω	1.0 W
K240C	DC to 40 GHz	K(f) to K(f)	50 Ω	1.0 W
K240B	DC to 26.5 GHz	K(f) to K(f)	50 Ω	1.0 W
11N50B	1 MHz to 3 GHz	N(f) to N(f)	50 Ω	1.0 W

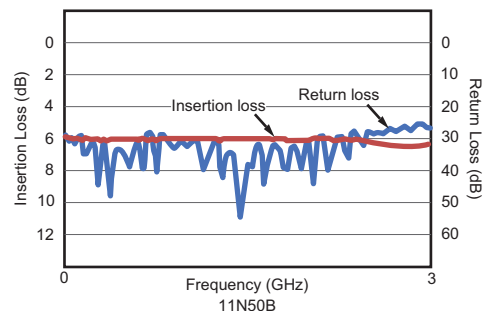
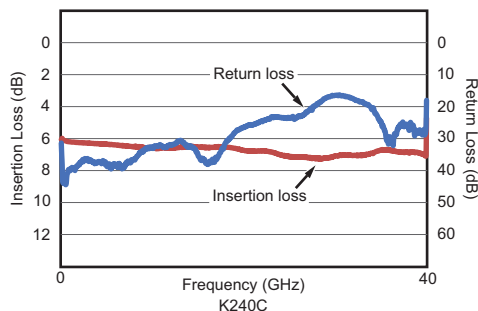
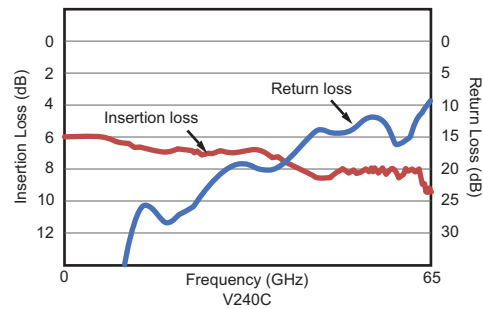
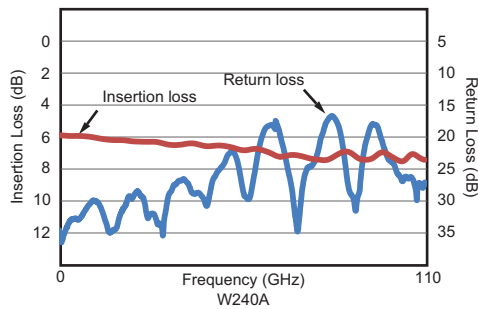
Specifications

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 W240A: 16 g
 V240C: 43 g
 K240C: 43 g
 K240B: 43 g
 11N50B: 182 g

Insertion/Return Loss and Transmission Tracking

Model	Frequency Range	Insertion Loss (max)	Input Return Loss (min)	Transmission Tracking Amplitude (max)	Transmission Tracking Phase (max)
W240A	DC to 20 GHz	7.0 dB	15.0 dB	±0.60 dB	±5°
	> 20 GHz to 30 GHz	7.50 dB	15.0 dB	±0.60 dB	±10°
	> 30 GHz to 50 GHz	7.50 dB	15.0 dB	±0.75 dB	±10°
	> 50 GHz to 67 GHz	8.25 dB	13.0 dB	±0.75 dB	±10°
	> 67 GHz to 90 GHz	9.00 dB	10.0 dB	±1.25 dB	±20°
	> 90 GHz to 110 GHz	9.00 dB	10.0 dB	±1.75 dB	±20°
V240C	DC to 6 GHz	7.0 dB	20.1 dB	±0.3 dB	±2°
	>6 GHz to 18 GHz	7.5 dB	14.9 dB	±0.3 dB	±3°
	>18 GHz to 26.5 GHz	8.0 dB	13.0 dB	±0.6 dB	±4°
	>26.5 GHz to 40 GHz	8.5 dB	11.0 dB	±0.6 dB	±6°
	>40 GHz to 65 GHz	10.0 dB	5.8 dB	±1.8 dB	±18°
K240C	DC to 6 GHz	7.0 dB	20.1 dB	±0.3 dB	±2°
	>6 GHz to 18 GHz	7.5 dB	14.9 dB	±0.3 dB	±3°
	>18 GHz to 26.5 GHz	8.0 dB	13.0 dB	±0.6 dB	±4°
	>26.5 GHz to 40 GHz	8.5 dB	11.0 dB	±0.6 dB	±6°
K240B	DC to 6 GHz	7.0 dB	20.1 dB	±0.3 dB	±2°
	>6 GHz to 18 GHz	7.5 dB	14.9 dB	±0.3 dB	±3°
	>18 GHz to 26.5 GHz	8.0 dB	13.0 dB	±0.6 dB	±4°
11N50B	1 MHz to 3.0 GHz	7.0 dB	20.1 dB	±0.3 dB	±2°



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

W240A	Precision Power Divider, DC to 110 GHz, W1(f) input, W1(f) outputs, 3 resistor, 50 Ω
W240A-099	Premium Calibration to ISO17025 and ANSI/NCSL Z540-1. Includes calibration certificate, test report, and uncertainty data.
V240C	Precision Power Divider, DC to 65 GHz, V(f) input, V(f) outputs, 3 resistor, 50 Ω
K240C	Precision Power Divider, DC to 40 GHz, K(f) input, K(f) outputs, 3 resistor, 50 Ω
K240B	Precision Power Divider, DC to 26.5 GHz, K(f) input, K(f) outputs, 3 resistor, 50 Ω
11N50B	Power Divider, 1 MHz - 3 GHz, N(f) input, N(f) output, 50 Ω

1. Salt spray does not apply to the W240A dividers.

Notes

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



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List Revision Date: 20210610