

DC Pass, High Power

Power Splitter/Combiner- ZC2PD-K0144+

2 Way-0° 50Ω 1000 to 40000 MHz

The Big Deal

- Super wideband, 1 to 40 GHz
- Low insertion loss, 0.9 dB typ.
- High Isolation, 36 dB typ.
- 20W power handling
- Low amplitude unbalance, 0.05 dB typ.



CASE STYLE: UU2624-2

Product Overview

Mini-Circuits' ZC2PD-K0144+ is a super wideband 2-way 0° splitter/combiner providing coverage from 1 to 40 GHz, supporting a wide range of applications including 5G, Ku-Band, K-Band, instrumentation and many more. This model provides 20W power handling as a splitter and very low insertion loss across the entire operating frequency range, minimizing power dissipation and delivering excellent signal power transmission from input to output. The ZC2PD-K0144+ comes housed in a case measuring 3.75 x 1.02 x 0.5".

Key Features

| Feature | Advantages |
|--|---|
| Ultra-wideband, 1 to 40 GHz | Extremely wide frequency range supports many broadband applications in a single model. Ideal for use in wideband instrumentation |
| Low insertion loss, 0.9 dB typ. at 13 GHz | The combination of 20W power handling and low insertion loss makes this model a suitable candidate for distributing signals while maintaining excellent transmission of signal power. |
| High isolation, 36 dB typ. at 13 GHz | Minimizes interference between ports. |
| High power handling: <ul style="list-style-type: none">• 20W as a splitter at 25°C• 0.45W as a combiner | The ZC2PD-K0144+ is suitable for systems with a wide range of power requirements. |
| Low amplitude unbalance, 0.05 dB at 13 GHz | Produces nearly equal output signals, ideal for parallel path and multichannel systems. |
| DC Passing, 440mA | Supports applications where DC power is needed to pass through the RF line. |

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-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/MCLStore/terms.jsp



DC Pass, High Power Power Splitter/Combiner

ZC2PD-K0144+

2 Way-0° 50Ω 1000 to 40000 MHz

Maximum Ratings

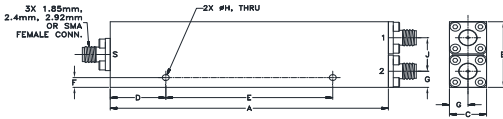
| | |
|-----------------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 20W* max. |
| Internal Dissipation | 0.45W max. |
| DC Current | 440 mA |

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

Coaxial Connections

| | |
|----------|---|
| Sum Port | S |
| Port 1 | 1 |
| Port 2 | 2 |

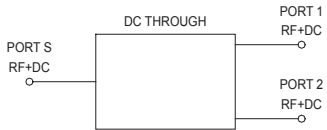
Outline Drawing



Outline Dimensions (inch/mm)

| | | | | | | | |
|-------|-------|-------|-------|-------|------|------|-------|
| A | B | C | D | E | F | G | |
| 3.75 | 1.02 | .50 | .750 | 2.250 | .151 | .25 | |
| 95.25 | 25.91 | 12.70 | 19.05 | 57.15 | 3.84 | 6.35 | |
| H | J | K | | | | | wt |
| .094 | .52 | .47 | | | | | grams |
| 2.39 | 13.21 | 12 | | | | | 105 |

Electrical Schematic



Features

- Super wideband, 1000 - 40000 MHz
- Low insertion loss, 0.9 dB typ.
- Low amplitude unbalance, 0.05 dB typ.
- Excellent VSWR, 1.06:1 typ.
- High isolation, 36 dB typ.

Applications

- 5G
- Fixed satellite
- Space research
- Mobile

Electrical Specifications at 25°C

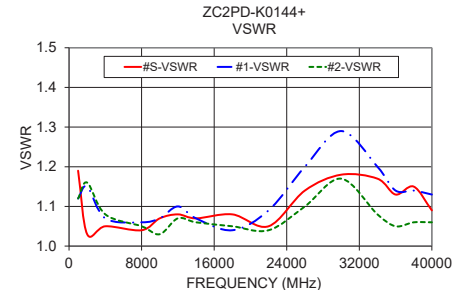
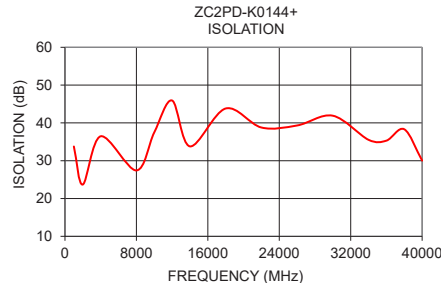
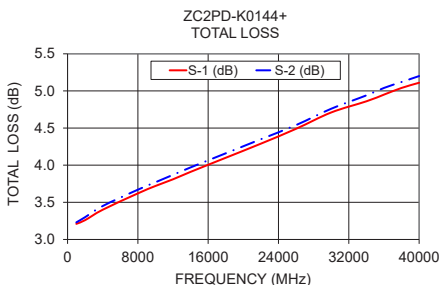
| Parameter | Frequency (MHz) | Min. | Typ. | Max. | Unit |
|------------------------------------|-----------------|------|------|-------|--------|
| Frequency Range | | 1000 | | 40000 | MHz |
| Insertion Loss Above 3.0 dB | 1000 - 8000 | | 0.5 | 0.9 | |
| | 8000 - 18000 | | 0.9 | 1.3 | |
| | 18000 - 26500 | | 1.3 | 1.7 | dB |
| | 26500 - 40000 | | 1.9 | 2.4 | |
| Isolation | 1000 - 8000 | 17 | 28 | | |
| | 8000 - 18000 | 18 | 36 | | dB |
| | 18000 - 26500 | 18 | 37 | | |
| | 26500 - 40000 | 18 | 35 | | |
| Phase Unbalance (±)¹ | 1000 - 8000 | | 0.4 | 2 | |
| | 8000 - 18000 | | 1.1 | 3 | Degree |
| | 18000 - 26500 | | 1.8 | 4 | |
| | 26500 - 40000 | | 2.5 | 5 | |
| Amplitude Unbalance (±)¹ | 1000 - 8000 | | 0.03 | 0.2 | |
| | 8000 - 18000 | | 0.05 | 0.3 | dB |
| | 18000 - 26500 | | 0.07 | 0.3 | |
| | 26500 - 40000 | | 0.11 | 0.4 | |
| VSWR (Port S) | 1000 - 8000 | | 1.05 | 1.3 | |
| | 8000 - 18000 | | 1.06 | 1.4 | :1 |
| | 18000 - 26500 | | 1.07 | 1.5 | |
| | 26500 - 40000 | | 1.11 | 1.5 | |
| VSWR (Port 1-2) | 1000 - 8000 | | 1.08 | 1.3 | |
| | 8000 - 18000 | | 1.05 | 1.4 | :1 |
| | 18000 - 26500 | | 1.07 | 1.5 | |
| | 26500 - 40000 | | 1.08 | 1.5 | |

1. With reference to average.

Typical Performance Data

| Frequency (MHz) | Total Loss¹ (dB) | | Amplitude Unbalance (dB) | Isolation (dB) | Phase Unbalance (deg.) | VSWR S | VSWR 1 | VSWR 2 |
|-----------------|------------------|------|--------------------------|----------------|------------------------|--------|--------|--------|
| | S-1 | S-2 | | | | | | |
| 1000 | 3.21 | 3.23 | 0.02 | 33.76 | 0.04 | 1.19 | 1.12 | 1.12 |
| 2000 | 3.26 | 3.30 | 0.04 | 23.70 | 0.02 | 1.03 | 1.15 | 1.16 |
| 4000 | 3.40 | 3.45 | 0.05 | 36.46 | 0.17 | 1.05 | 1.07 | 1.08 |
| 8000 | 3.62 | 3.67 | 0.05 | 27.43 | 0.55 | 1.04 | 1.06 | 1.05 |
| 10000 | 3.72 | 3.77 | 0.06 | 37.48 | 0.76 | 1.07 | 1.07 | 1.03 |
| 12000 | 3.81 | 3.87 | 0.06 | 45.92 | 0.92 | 1.08 | 1.10 | 1.07 |
| 14000 | 3.91 | 3.97 | 0.06 | 33.79 | 1.10 | 1.07 | 1.07 | 1.06 |
| 18000 | 4.10 | 4.16 | 0.07 | 43.81 | 1.54 | 1.08 | 1.04 | 1.05 |
| 22000 | 4.29 | 4.35 | 0.06 | 38.78 | 1.87 | 1.05 | 1.09 | 1.04 |
| 26000 | 4.49 | 4.54 | 0.05 | 39.32 | 2.19 | 1.14 | 1.20 | 1.10 |
| 30000 | 4.71 | 4.76 | 0.05 | 41.90 | 2.48 | 1.18 | 1.29 | 1.17 |
| 34000 | 4.86 | 4.94 | 0.08 | 35.52 | 3.11 | 1.17 | 1.20 | 1.08 |
| 36000 | 4.95 | 5.04 | 0.08 | 35.31 | 3.47 | 1.13 | 1.14 | 1.05 |
| 38000 | 5.04 | 5.12 | 0.08 | 38.31 | 3.90 | 1.15 | 1.14 | 1.06 |
| 40000 | 5.11 | 5.20 | 0.09 | 30.03 | 4.13 | 1.09 | 1.13 | 1.06 |

1. Total Loss = Insertion Loss + 3dB splitter theoretical



Notes

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Generic photo used for illustration purposes only
CASE STYLE: UU2624-2

| Connectors | Model |
|------------|--------------|
| 2.92mm-Fem | ZC2PD-K0144+ |

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

REV. A
ECO-004658
ZC2PD-K0144+
GY/CP/AM
210105
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2 Way-0° Power Splitter/Combiner

ZC2PD-K0144+

Typical Performance Data

TEST CONDITIONS: INPUT POWER = 0 dBm @ Temperature = +25°C

| FREQUENCY (MHz) | TOTAL LOSS ¹ (dB) | | AMPLITUDE UNBALANCE (dB) | ISOLATION (dB) | PHASE UNBALANCE (Deg) | FREQUENCY (MHz) | VSWR (:1) | | |
|--------------------|---------------------------------|------|--------------------------------|-------------------|-----------------------------|--------------------|--------------|------|------|
| | S-1 | S-2 | | | | | S | 1 | 2 |
| 10 | 3.53 | 3.55 | 0.02 | 3.58 | 0.03 | 10 | 1.99 | 1.98 | 1.97 |
| 100 | 3.54 | 3.56 | 0.03 | 3.84 | 0.09 | 100 | 1.96 | 1.98 | 1.98 |
| 1000 | 3.21 | 3.23 | 0.02 | 33.76 | 0.04 | 1000 | 1.19 | 1.12 | 1.12 |
| 2000 | 3.26 | 3.30 | 0.04 | 23.70 | 0.02 | 2000 | 1.03 | 1.15 | 1.16 |
| 3000 | 3.33 | 3.38 | 0.05 | 21.47 | 0.19 | 3000 | 1.04 | 1.19 | 1.20 |
| 4000 | 3.40 | 3.45 | 0.05 | 36.46 | 0.17 | 4000 | 1.05 | 1.07 | 1.08 |
| 5000 | 3.46 | 3.51 | 0.05 | 26.71 | 0.33 | 5000 | 1.09 | 1.04 | 1.02 |
| 6000 | 3.52 | 3.58 | 0.05 | 26.42 | 0.42 | 6000 | 1.11 | 1.02 | 1.02 |
| 7000 | 3.57 | 3.63 | 0.06 | 36.01 | 0.53 | 7000 | 1.08 | 1.07 | 1.10 |
| 8000 | 3.62 | 3.67 | 0.05 | 27.43 | 0.55 | 8000 | 1.04 | 1.06 | 1.05 |
| 9000 | 3.67 | 3.72 | 0.05 | 29.32 | 0.61 | 9000 | 1.04 | 1.09 | 1.06 |
| 10000 | 3.72 | 3.77 | 0.06 | 37.48 | 0.76 | 10000 | 1.07 | 1.07 | 1.03 |
| 11000 | 3.76 | 3.83 | 0.07 | 29.59 | 0.81 | 11000 | 1.08 | 1.07 | 1.09 |
| 12000 | 3.81 | 3.87 | 0.06 | 45.92 | 0.92 | 12000 | 1.08 | 1.10 | 1.07 |
| 13000 | 3.86 | 3.92 | 0.06 | 39.73 | 0.99 | 13000 | 1.08 | 1.11 | 1.08 |
| 14000 | 3.91 | 3.97 | 0.06 | 33.79 | 1.10 | 14000 | 1.07 | 1.07 | 1.06 |
| 15000 | 3.95 | 4.02 | 0.07 | 38.47 | 1.16 | 15000 | 1.05 | 1.10 | 1.10 |
| 16000 | 4.00 | 4.07 | 0.07 | 47.92 | 1.28 | 16000 | 1.07 | 1.05 | 1.06 |
| 17000 | 4.06 | 4.13 | 0.07 | 36.56 | 1.44 | 17000 | 1.07 | 1.04 | 1.02 |
| 18000 | 4.10 | 4.16 | 0.07 | 43.81 | 1.54 | 18000 | 1.08 | 1.04 | 1.05 |
| 19000 | 4.14 | 4.20 | 0.06 | 32.18 | 1.60 | 19000 | 1.04 | 1.10 | 1.05 |
| 20000 | 4.18 | 4.25 | 0.06 | 37.61 | 1.72 | 20000 | 1.02 | 1.09 | 1.02 |
| 21000 | 4.25 | 4.31 | 0.06 | 42.71 | 1.83 | 21000 | 1.03 | 1.08 | 1.04 |
| 22000 | 4.29 | 4.35 | 0.06 | 38.78 | 1.87 | 22000 | 1.05 | 1.09 | 1.04 |
| 23000 | 4.35 | 4.40 | 0.05 | 34.89 | 2.03 | 23000 | 1.09 | 1.13 | 1.04 |
| 24000 | 4.40 | 4.45 | 0.05 | 34.01 | 2.17 | 24000 | 1.11 | 1.18 | 1.10 |
| 25000 | 4.45 | 4.51 | 0.06 | 31.60 | 2.21 | 25000 | 1.15 | 1.16 | 1.08 |
| 26000 | 4.49 | 4.54 | 0.05 | 39.32 | 2.19 | 26000 | 1.14 | 1.20 | 1.10 |
| 27000 | 4.54 | 4.59 | 0.05 | 33.02 | 2.33 | 27000 | 1.14 | 1.17 | 1.05 |
| 28000 | 4.57 | 4.62 | 0.04 | 31.17 | 2.50 | 28000 | 1.12 | 1.20 | 1.08 |
| 29000 | 4.64 | 4.70 | 0.05 | 33.80 | 2.55 | 29000 | 1.19 | 1.22 | 1.10 |
| 30000 | 4.71 | 4.76 | 0.05 | 41.90 | 2.48 | 30000 | 1.18 | 1.29 | 1.17 |
| 31000 | 4.72 | 4.80 | 0.07 | 33.82 | 2.57 | 31000 | 1.21 | 1.25 | 1.13 |
| 32000 | 4.75 | 4.83 | 0.08 | 32.09 | 2.86 | 32000 | 1.18 | 1.20 | 1.08 |
| 33000 | 4.80 | 4.88 | 0.08 | 33.35 | 2.95 | 33000 | 1.19 | 1.20 | 1.10 |
| 34000 | 4.86 | 4.94 | 0.08 | 35.52 | 3.11 | 34000 | 1.17 | 1.20 | 1.08 |
| 35000 | 4.90 | 4.98 | 0.08 | 42.58 | 3.20 | 35000 | 1.15 | 1.21 | 1.09 |
| 36000 | 4.95 | 5.04 | 0.08 | 35.31 | 3.47 | 36000 | 1.13 | 1.14 | 1.05 |
| 37000 | 5.02 | 5.11 | 0.08 | 36.81 | 3.69 | 37000 | 1.14 | 1.13 | 1.06 |
| 38000 | 5.04 | 5.12 | 0.08 | 38.31 | 3.90 | 38000 | 1.15 | 1.14 | 1.06 |
| 39000 | 5.12 | 5.19 | 0.07 | 31.37 | 4.07 | 39000 | 1.13 | 1.19 | 1.07 |
| 40000 | 5.11 | 5.20 | 0.09 | 30.03 | 4.13 | 40000 | 1.09 | 1.13 | 1.06 |
| 41000 | 5.15 | 5.24 | 0.09 | 31.82 | 4.41 | 41000 | 1.05 | 1.13 | 1.09 |
| 42000 | 5.19 | 5.26 | 0.07 | 31.87 | 4.68 | 42000 | 1.04 | 1.09 | 1.05 |
| 43000 | 5.23 | 5.30 | 0.07 | 37.89 | 4.94 | 43000 | 1.02 | 1.08 | 1.05 |
| 43500 | 5.33 | 5.38 | 0.06 | 33.73 | 4.91 | 43500 | 1.19 | 1.20 | 1.09 |

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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REV. OR
ZC2PD-K0144+
11/1/2018

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2 Way-0° Power Splitter/Combiner

ZC2PD-K0144+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = -55°C

| FREQUENCY (MHz) | TOTAL LOSS ¹ (dB) | | AMPLITUDE UNBALANCE (dB) | ISOLATION (dB) 1-2 | PHASE UNBALANCE (Deg) | FREQUENCY (MHz) | VSWR (:1) | | |
|--------------------|---------------------------------|------|--------------------------------|--------------------------|-----------------------------|--------------------|--------------|------|------|
| | S-1 | S-2 | | | | | S | 1 | 2 |
| 10 | 3.51 | 3.57 | 0.05 | 3.58 | 0.11 | 10 | 1.98 | 1.98 | 1.97 |
| 100 | 3.53 | 3.58 | 0.06 | 3.83 | 0.23 | 100 | 1.95 | 1.98 | 1.97 |
| 1000 | 3.21 | 3.25 | 0.04 | 35.55 | 0.04 | 1000 | 1.20 | 1.13 | 1.14 |
| 2000 | 3.27 | 3.31 | 0.04 | 24.39 | 0.14 | 2000 | 1.05 | 1.16 | 1.17 |
| 3000 | 3.32 | 3.39 | 0.07 | 21.70 | 0.22 | 3000 | 1.06 | 1.20 | 1.21 |
| 4000 | 3.39 | 3.45 | 0.07 | 37.82 | 0.27 | 4000 | 1.07 | 1.07 | 1.08 |
| 5000 | 3.44 | 3.50 | 0.06 | 26.21 | 0.44 | 5000 | 1.11 | 1.04 | 1.02 |
| 6000 | 3.50 | 3.57 | 0.06 | 25.68 | 0.54 | 6000 | 1.13 | 1.00 | 1.02 |
| 7000 | 3.55 | 3.61 | 0.06 | 35.41 | 0.64 | 7000 | 1.11 | 1.08 | 1.11 |
| 8000 | 3.58 | 3.64 | 0.06 | 27.33 | 0.66 | 8000 | 1.06 | 1.05 | 1.05 |
| 9000 | 3.63 | 3.68 | 0.05 | 28.60 | 0.70 | 9000 | 1.06 | 1.07 | 1.05 |
| 10000 | 3.67 | 3.73 | 0.06 | 34.93 | 0.85 | 10000 | 1.07 | 1.05 | 1.02 |
| 11000 | 3.71 | 3.78 | 0.07 | 30.73 | 0.90 | 11000 | 1.08 | 1.08 | 1.10 |
| 12000 | 3.76 | 3.82 | 0.06 | 44.72 | 0.99 | 12000 | 1.09 | 1.09 | 1.07 |
| 13000 | 3.81 | 3.87 | 0.06 | 37.99 | 1.07 | 13000 | 1.08 | 1.10 | 1.06 |
| 14000 | 3.85 | 3.92 | 0.07 | 31.65 | 1.19 | 14000 | 1.09 | 1.06 | 1.06 |
| 15000 | 3.89 | 3.96 | 0.07 | 42.96 | 1.28 | 15000 | 1.07 | 1.11 | 1.11 |
| 16000 | 3.94 | 4.01 | 0.07 | 47.31 | 1.38 | 16000 | 1.07 | 1.06 | 1.07 |
| 17000 | 3.99 | 4.06 | 0.07 | 36.62 | 1.63 | 17000 | 1.06 | 1.03 | 1.03 |
| 18000 | 4.01 | 4.08 | 0.07 | 36.54 | 1.64 | 18000 | 1.06 | 1.04 | 1.06 |
| 19000 | 4.05 | 4.12 | 0.07 | 35.21 | 1.69 | 19000 | 1.03 | 1.08 | 1.03 |
| 20000 | 4.10 | 4.17 | 0.07 | 37.56 | 1.79 | 20000 | 1.01 | 1.07 | 1.01 |
| 21000 | 4.14 | 4.21 | 0.07 | 42.37 | 1.93 | 21000 | 1.02 | 1.07 | 1.04 |
| 22000 | 4.19 | 4.26 | 0.07 | 34.05 | 1.93 | 22000 | 1.01 | 1.07 | 1.03 |
| 23000 | 4.29 | 4.37 | 0.08 | 45.30 | 2.11 | 23000 | 1.05 | 1.10 | 1.02 |
| 24000 | 4.28 | 4.34 | 0.07 | 37.36 | 2.32 | 24000 | 1.07 | 1.14 | 1.06 |
| 25000 | 4.32 | 4.39 | 0.07 | 34.48 | 2.35 | 25000 | 1.08 | 1.11 | 1.04 |
| 26000 | 4.34 | 4.41 | 0.06 | 42.13 | 2.30 | 26000 | 1.06 | 1.14 | 1.07 |
| 27000 | 4.40 | 4.46 | 0.06 | 38.75 | 2.49 | 27000 | 1.06 | 1.11 | 1.05 |
| 28000 | 4.44 | 4.49 | 0.06 | 31.44 | 2.58 | 28000 | 1.05 | 1.14 | 1.02 |
| 29000 | 4.47 | 4.55 | 0.07 | 39.07 | 2.67 | 29000 | 1.08 | 1.15 | 1.03 |
| 30000 | 4.54 | 4.61 | 0.07 | 34.08 | 2.50 | 30000 | 1.06 | 1.21 | 1.09 |
| 31000 | 4.57 | 4.68 | 0.11 | 37.70 | 2.68 | 31000 | 1.09 | 1.17 | 1.09 |
| 32000 | 4.58 | 4.68 | 0.10 | 38.33 | 2.94 | 32000 | 1.08 | 1.13 | 1.02 |
| 33000 | 4.62 | 4.73 | 0.11 | 38.56 | 3.08 | 33000 | 1.10 | 1.12 | 1.05 |
| 34000 | 4.69 | 4.80 | 0.11 | 40.17 | 3.27 | 34000 | 1.08 | 1.13 | 1.03 |
| 35000 | 4.72 | 4.83 | 0.11 | 38.21 | 3.43 | 35000 | 1.04 | 1.13 | 1.06 |
| 36000 | 4.76 | 4.89 | 0.13 | 39.47 | 3.58 | 36000 | 1.03 | 1.06 | 1.04 |
| 37000 | 4.90 | 5.01 | 0.11 | 37.81 | 3.73 | 37000 | 1.08 | 1.06 | 1.06 |
| 38000 | 4.90 | 5.00 | 0.09 | 45.39 | 4.10 | 38000 | 1.09 | 1.07 | 1.02 |
| 39000 | 4.92 | 5.04 | 0.12 | 32.14 | 4.25 | 39000 | 1.11 | 1.15 | 1.02 |
| 40000 | 4.96 | 5.09 | 0.12 | 32.91 | 4.18 | 40000 | 1.06 | 1.10 | 1.06 |
| 41000 | 4.95 | 5.09 | 0.14 | 32.74 | 4.47 | 41000 | 1.03 | 1.11 | 1.11 |
| 42000 | 4.97 | 5.10 | 0.13 | 32.36 | 4.79 | 42000 | 1.05 | 1.11 | 1.08 |
| 43000 | 5.01 | 5.13 | 0.12 | 45.99 | 5.07 | 43000 | 1.05 | 1.08 | 1.09 |
| 43500 | 5.05 | 5.18 | 0.13 | 35.58 | 5.02 | 43500 | 1.13 | 1.17 | 1.12 |

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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ZC2PD-K0144+
11/1/2018

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2 Way-0° Power Splitter/Combiner

ZC2PD-K0144+

Typical Performance Data

TEST CONDITIONS: INPUT POWER =0 dBm @Temperature = +100°C

| FREQUENCY (MHz) | TOTAL LOSS ¹ (dB) | | AMPLITUDE UNBALANCE (dB) | ISOLATION (dB) 1-2 | PHASE UNBALANCE (Deg) | FREQUENCY (MHz) | VSWR (:1) | | |
|--------------------|---------------------------------|------|--------------------------------|--------------------------|-----------------------------|--------------------|--------------|------|------|
| | S-1 | S-2 | | | | | S | 1 | 2 |
| 10 | 3.51 | 3.54 | 0.04 | 3.59 | 0.05 | 10 | 2.00 | 1.99 | 1.97 |
| 100 | 3.52 | 3.55 | 0.03 | 3.82 | 0.19 | 100 | 1.97 | 2.00 | 1.99 |
| 1000 | 3.21 | 3.21 | 0.00 | 26.80 | 0.09 | 1000 | 1.19 | 1.23 | 1.23 |
| 2000 | 3.28 | 3.27 | 0.01 | 21.93 | 0.20 | 2000 | 1.02 | 1.19 | 1.18 |
| 3000 | 3.35 | 3.35 | 0.01 | 19.89 | 0.05 | 3000 | 1.03 | 1.23 | 1.22 |
| 4000 | 3.43 | 3.42 | 0.00 | 44.73 | 0.09 | 4000 | 1.05 | 1.06 | 1.04 |
| 5000 | 3.48 | 3.49 | 0.01 | 25.45 | 0.10 | 5000 | 1.09 | 1.02 | 1.04 |
| 6000 | 3.55 | 3.55 | 0.01 | 24.85 | 0.05 | 6000 | 1.10 | 1.04 | 1.05 |
| 7000 | 3.60 | 3.60 | 0.00 | 34.15 | 0.10 | 7000 | 1.07 | 1.08 | 1.05 |
| 8000 | 3.65 | 3.66 | 0.01 | 26.21 | 0.22 | 8000 | 1.03 | 1.06 | 1.08 |
| 9000 | 3.70 | 3.72 | 0.02 | 27.85 | 0.22 | 9000 | 1.04 | 1.06 | 1.10 |
| 10000 | 3.76 | 3.77 | 0.01 | 37.73 | 0.18 | 10000 | 1.06 | 1.03 | 1.07 |
| 11000 | 3.83 | 3.81 | 0.01 | 29.27 | 0.25 | 11000 | 1.08 | 1.09 | 1.08 |
| 12000 | 3.87 | 3.87 | 0.00 | 41.78 | 0.25 | 12000 | 1.07 | 1.08 | 1.10 |
| 13000 | 3.92 | 3.93 | 0.01 | 40.61 | 0.25 | 13000 | 1.06 | 1.07 | 1.11 |
| 14000 | 3.98 | 3.98 | 0.00 | 35.12 | 0.23 | 14000 | 1.05 | 1.06 | 1.05 |
| 15000 | 4.03 | 4.03 | 0.01 | 36.11 | 0.31 | 15000 | 1.05 | 1.10 | 1.09 |
| 16000 | 4.09 | 4.09 | 0.00 | 45.16 | 0.29 | 16000 | 1.07 | 1.05 | 1.03 |
| 17000 | 4.14 | 4.15 | 0.00 | 36.66 | 0.26 | 17000 | 1.09 | 1.03 | 1.04 |
| 18000 | 4.20 | 4.20 | 0.00 | 43.74 | 0.27 | 18000 | 1.10 | 1.06 | 1.05 |
| 19000 | 4.24 | 4.25 | 0.02 | 31.53 | 0.41 | 19000 | 1.07 | 1.04 | 1.07 |
| 20000 | 4.28 | 4.29 | 0.01 | 38.25 | 0.43 | 20000 | 1.04 | 1.02 | 1.06 |
| 21000 | 4.33 | 4.35 | 0.01 | 40.26 | 0.37 | 21000 | 1.01 | 1.03 | 1.04 |
| 22000 | 4.39 | 4.41 | 0.02 | 39.79 | 0.45 | 22000 | 1.04 | 1.04 | 1.07 |
| 23000 | 4.44 | 4.46 | 0.02 | 33.87 | 0.50 | 23000 | 1.08 | 1.04 | 1.10 |
| 24000 | 4.50 | 4.53 | 0.03 | 32.72 | 0.55 | 24000 | 1.10 | 1.09 | 1.15 |
| 25000 | 4.55 | 4.57 | 0.02 | 31.51 | 0.61 | 25000 | 1.13 | 1.07 | 1.13 |
| 26000 | 4.59 | 4.61 | 0.02 | 39.16 | 0.71 | 26000 | 1.12 | 1.10 | 1.15 |
| 27000 | 4.64 | 4.66 | 0.02 | 33.47 | 0.70 | 27000 | 1.13 | 1.05 | 1.13 |
| 28000 | 4.68 | 4.71 | 0.03 | 32.18 | 0.75 | 28000 | 1.11 | 1.07 | 1.15 |
| 29000 | 4.77 | 4.78 | 0.01 | 33.82 | 0.93 | 29000 | 1.18 | 1.09 | 1.19 |
| 30000 | 4.82 | 4.85 | 0.03 | 40.53 | 1.06 | 30000 | 1.16 | 1.16 | 1.23 |
| 31000 | 4.88 | 4.88 | 0.00 | 33.07 | 1.05 | 31000 | 1.18 | 1.12 | 1.20 |
| 32000 | 4.91 | 4.91 | 0.01 | 31.93 | 0.95 | 32000 | 1.15 | 1.06 | 1.13 |
| 33000 | 4.97 | 4.96 | 0.01 | 33.04 | 1.13 | 33000 | 1.16 | 1.10 | 1.16 |
| 34000 | 5.01 | 5.01 | 0.01 | 37.72 | 1.06 | 34000 | 1.14 | 1.07 | 1.13 |
| 35000 | 5.08 | 5.07 | 0.00 | 40.87 | 1.14 | 35000 | 1.12 | 1.08 | 1.14 |
| 36000 | 5.12 | 5.11 | 0.02 | 36.85 | 1.13 | 36000 | 1.11 | 1.03 | 1.09 |
| 37000 | 5.18 | 5.17 | 0.01 | 33.87 | 1.26 | 37000 | 1.13 | 1.05 | 1.09 |
| 38000 | 5.23 | 5.22 | 0.01 | 37.55 | 1.14 | 38000 | 1.14 | 1.04 | 1.05 |
| 39000 | 5.32 | 5.30 | 0.02 | 30.39 | 1.05 | 39000 | 1.11 | 1.07 | 1.09 |
| 40000 | 5.30 | 5.28 | 0.01 | 29.95 | 1.19 | 40000 | 1.05 | 1.07 | 1.10 |
| 41000 | 5.34 | 5.33 | 0.01 | 31.81 | 1.27 | 41000 | 1.01 | 1.10 | 1.14 |
| 42000 | 5.38 | 5.37 | 0.01 | 32.89 | 1.35 | 42000 | 1.01 | 1.08 | 1.12 |
| 43000 | 5.44 | 5.41 | 0.02 | 35.63 | 1.19 | 43000 | 1.03 | 1.07 | 1.07 |
| 43500 | 5.51 | 5.50 | 0.01 | 33.86 | 1.24 | 43500 | 1.17 | 1.09 | 1.17 |

¹Total Loss = Insertion Loss + 3dB Splitter Loss



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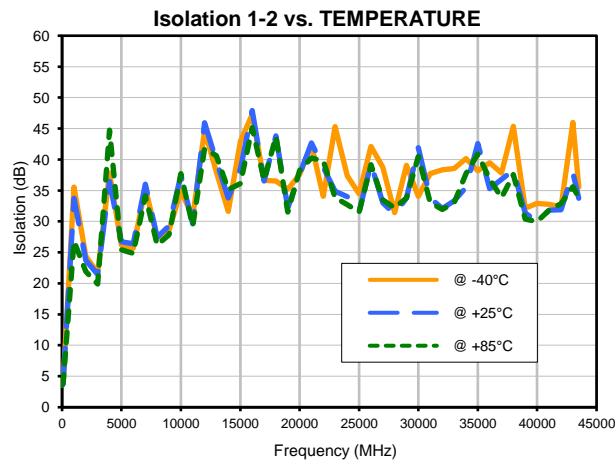
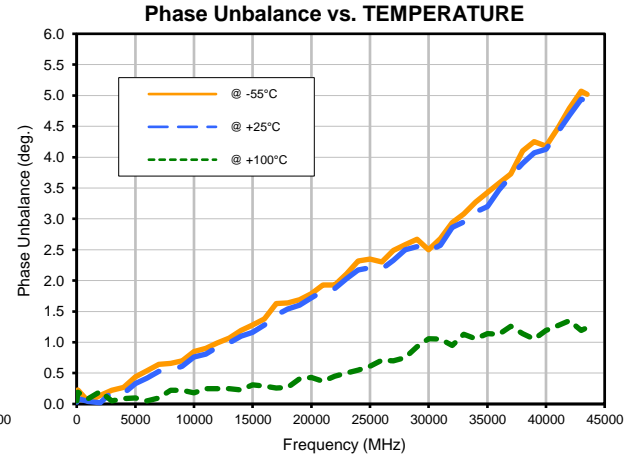
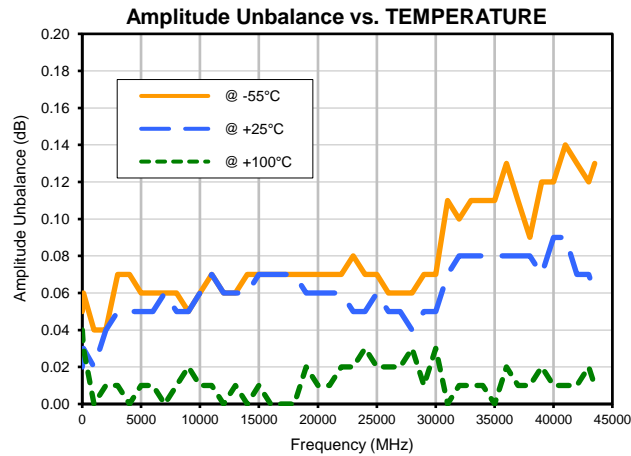
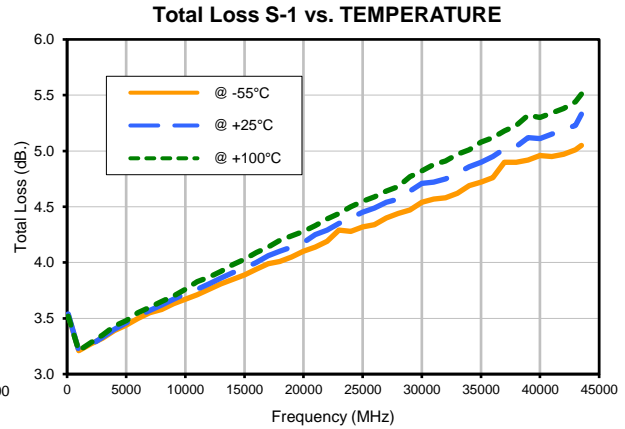
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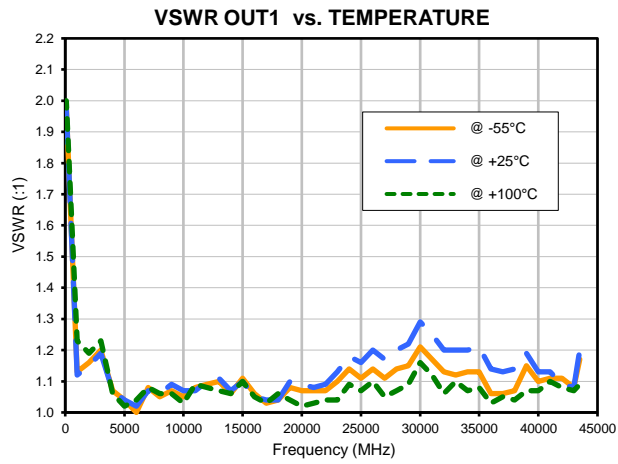
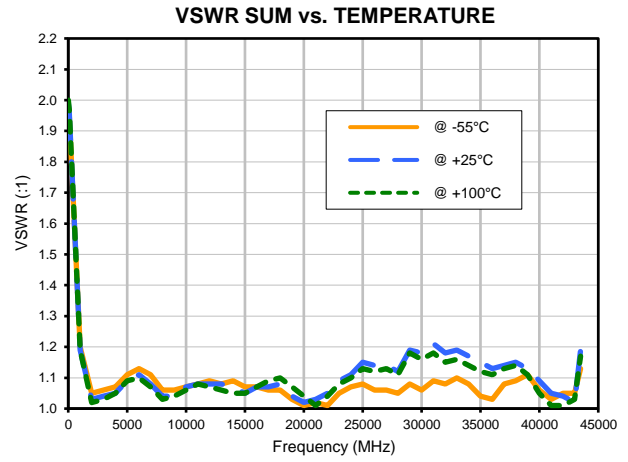
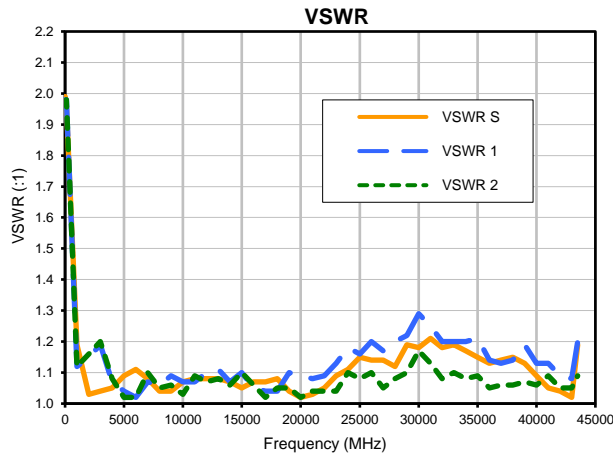
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Typical Performance Curves



Typical Performance Curves

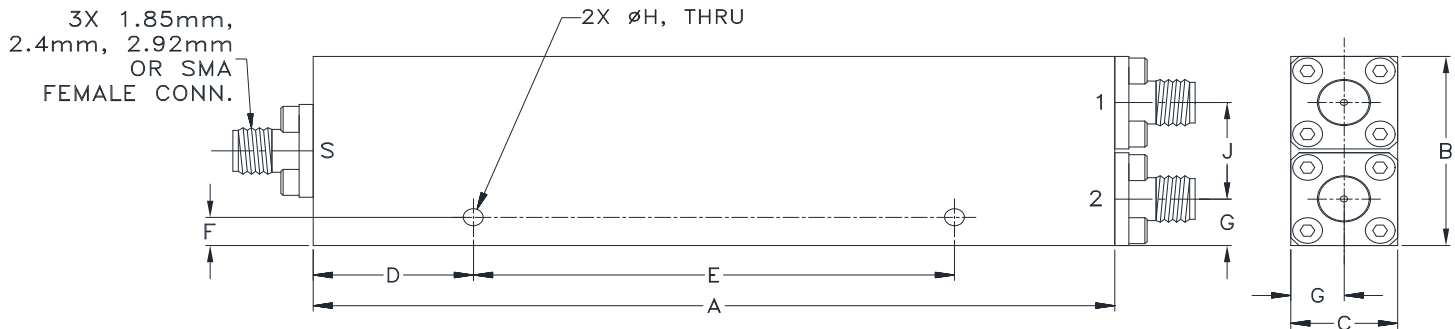


Case Style

UU

Outline Dimensions

UU2624-2



| CASE # | A | B | C | D | E | F | G | H | J | WT. GRAM |
|----------|-----------------|-----------------|----------------|-----------------|------------------|----------------|---------------|----------------|----------------|-------------|
| UU2624-2 | 3.75 (95.25) | 1.02 (25.91) | .50 (12.70) | .750 (19.05) | 2.250 (57.15) | .151 (3.84) | .25 (6.35) | .094 (2.40) | .52 (13.21) | 105 |

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

1. Case material: Aluminum alloy.
2. Case finish: Painting Color: Blue.
3. Refer to the individual model data sheet for the type of connectors available.

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RF/MICROWAVE COMPONENTS



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 100°C Ambient Environment | Individual Model Data Sheet |
| Storage Temperature | -55° to 100° C Ambient Environment | Individual Model Data Sheet |
| Thermal Shock | -55° to 100°C, 25 cycles | MIL-STD-202, Method 107, Condition A-1 except +100°C instead of 85°C |
| Vibration (High Frequency) | 20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36) | MIL-STD-202, Method 204, Condition D |
| Mechanical Shock | 100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18) | MIL-STD-202, Method 213, Condition I |
| Connector Durability | 500 mating/unmating cycles | MIL-PRF-39012E, PARAGRAPH 4.6.12 |