

DC Pass, High Power

Power Splitter/Combiner

ZC8PD-K1844+

8 Way-0° 50Ω 18000 to 40000 MHz

The Big Deal

- Ultra wideband, 18 to 40 GHz
- Low insertion loss, 1.8 dB typ.
- High Isolation, 26 dB typ.
- 20W power handling
- Low amplitude unbalance, 0.16 dB typ.



CASE STYLE: UU2415-5

Product Overview

Mini-Circuits' ZC8PD-K0644+ is a super wideband 8-way 0° splitter/combiner providing coverage from 18 to 40 GHz, supporting a wide range of applications including 5G, Ku-band, K-band & Ka-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 ZC8PD-K0644+ comes housed in a case measuring 1.18 x 4.08 x 0.5" with 2.92mm female connectors.

Key Features

| Feature | Advantages |
|---|---|
| Ultra-wideband, 18 to 40 GHz | Extremely wide frequency range supports many broadband applications in a single model. |
| Low insertion loss, 1.8 dB typ. | 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, 26 dB typ. | Minimizes interference between ports. |
| High power handling: <ul style="list-style-type: none">• 20W as a splitter at 25°C• 3.2W as a combiner | The ZC8PD-06263-S+ is suitable for systems with a wide range of power requirements. |
| Low amplitude unbalance, 0.16 dB | Produces nearly equal output signals, ideal for parallel path and multichannel systems. |
| DC Passing, 405mA | Supports applications where DC power is needed 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

ZC8PD-K1844+

8 Way-0° 50Ω 18000 to 40000 MHz

Maximum Ratings

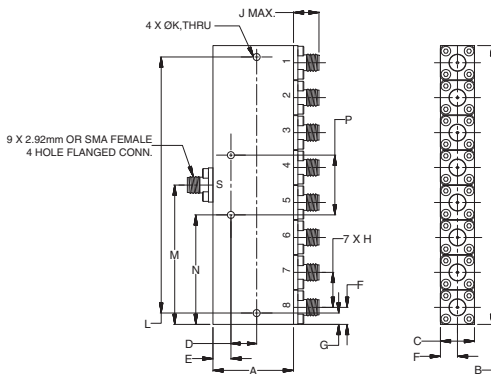
| | |
|-----------------------------|----------------|
| Operating Temperature | -55°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 20W* max. |
| Internal Dissipation | 3.2W max. |
| DC Current | 405 mA |

Permanent damage may occur if any of these limits are exceeded.
* Derate linearly to 8.2W at 100°C

Coaxial Connections

| | |
|----------------------|-----------------|
| Sum Port | S |
| Port 1,2,3,4,5,6,7,8 | 1,2,3,4,5,6,7,8 |

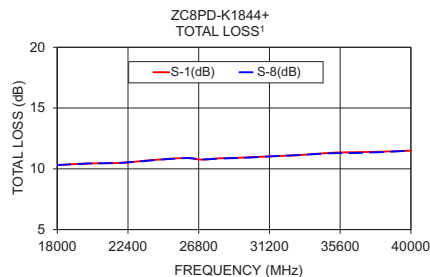
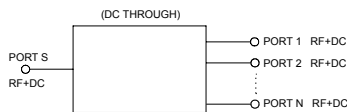
Outline Drawing



Outline Dimensions (inch/mm)

| | | | | | | |
|-------|--------|-------|-------|-------|------|-------|
| A | B | C | D | E | F | G |
| 1.93 | 4.09 | .50 | 0.087 | .449 | .25 | 2.05 |
| 49.02 | 103.89 | 12.70 | 2.21 | 11.40 | 6.35 | 52.07 |
| H | J | K | L | M | N | wt |
| .51 | .43 | .094 | 3.197 | .130 | .26 | grams |
| 12.95 | 10.92 | 2.39 | 81.20 | 3.30 | 6.60 | 230 |

Electrical Schematic



Features

- Ultra wideband, 18000 - 40000 MHz
- Low amplitude unbalance, 0.16 dB typ.
- Excellent VSWR, 1.33:1 typ.
- High isolation, 26 dB typ.

Applications

- Fixed satellite
- 5G
- Mobile
- Space research



Generic photo used for illustration purposes only

CASE STYLE: UU2415-5

| Connectors | Model |
|------------|--------------|
| 2.92mm-Fem | ZC8PD-K1844+ |

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

Electrical Specifications at 25°C

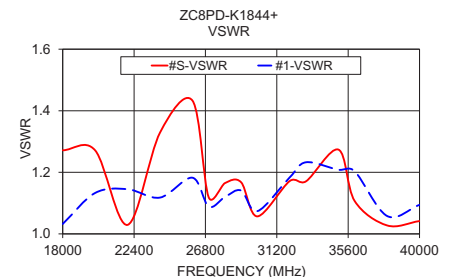
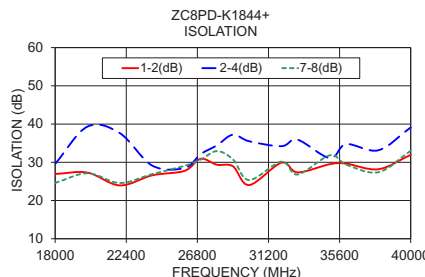
| Parameter | Frequency (MHz) | Min. | Typ. | Max. | Unit |
|--------------------------------------|-----------------|-------|------|-------|--------|
| Frequency Range | | 18000 | | 40000 | MHz |
| Insertion Loss Above 9.0 dB | 18000-26500 | | 1.8 | 2.4 | dB |
| | 26500-40000 | | 2.5 | 3.2 | |
| Isolation | 18000-26500 | 16 | 25 | | dB |
| | 26500-40000 | 18 | 26 | | |
| Phase Unbalance (±) ¹ | 18000-26500 | | 3.5 | 8 | Degree |
| | 26500-40000 | | 5.3 | 10 | |
| Amplitude Unbalance (±) ¹ | 18000-26500 | | 0.16 | 0.4 | dB |
| | 26500-40000 | | 0.21 | 0.6 | |
| VSWR (Port S) | 18000-26500 | | 1.33 | 1.7 | :1 |
| | 26500-40000 | | 1.24 | 1.7 | |
| VSWR (Port 1-8) | 18000-26500 | | 1.25 | 1.6 | :1 |
| | 26500-40000 | | 1.24 | 1.7 | |

1. With reference to average.

Typical Performance Data

| Freq. (MHz) | Total Loss ¹ (dB) | | | | | | Amp. Unbal. (dB) | Isolation (dB) | | | | Phase Unbal. (deg.) | VSWR S | VSWR 1 | VSWR 8 |
|-------------|------------------------------|-------|-------|-------|-------|-------|------------------|----------------|-------|-------|-------|---------------------|--------|--------|--------|
| | S-1 | S-2 | S-3 | S-4 | S-6 | S-8 | | 1-2 | 2-4 | 5-7 | 7-8 | | | | |
| 18000 | 10.31 | 10.33 | 10.35 | 10.30 | 10.29 | 10.31 | 0.09 | 26.93 | 29.60 | 27.82 | 24.59 | 2.59 | 1.27 | 1.03 | 1.05 |
| 20000 | 10.44 | 10.47 | 10.47 | 10.43 | 10.43 | 10.44 | 0.07 | 27.30 | 39.34 | 31.59 | 27.13 | 2.99 | 1.27 | 1.13 | 1.12 |
| 22000 | 10.49 | 10.50 | 10.52 | 10.49 | 10.49 | 10.49 | 0.06 | 23.95 | 37.63 | 37.35 | 24.58 | 3.33 | 1.03 | 1.15 | 1.16 |
| 24000 | 10.73 | 10.72 | 10.71 | 10.70 | 10.70 | 10.71 | 0.06 | 26.59 | 29.14 | 31.59 | 26.91 | 3.56 | 1.33 | 1.12 | 1.14 |
| 26000 | 10.89 | 10.88 | 10.89 | 10.86 | 10.86 | 10.88 | 0.06 | 27.75 | 28.49 | 28.22 | 29.06 | 3.71 | 1.43 | 1.18 | 1.19 |
| 27000 | 10.76 | 10.75 | 10.81 | 10.74 | 10.74 | 10.77 | 0.09 | 30.91 | 32.12 | 33.84 | 30.70 | 3.85 | 1.12 | 1.09 | 1.13 |
| 28000 | 10.86 | 10.85 | 10.88 | 10.83 | 10.82 | 10.84 | 0.09 | 29.37 | 34.42 | 34.41 | 32.92 | 3.93 | 1.16 | 1.12 | 1.12 |
| 29000 | 10.89 | 10.86 | 10.94 | 10.87 | 10.87 | 10.88 | 0.10 | 28.95 | 37.22 | 46.78 | 30.76 | 4.15 | 1.17 | 1.14 | 1.09 |
| 30000 | 10.95 | 10.94 | 10.95 | 10.89 | 10.91 | 10.93 | 0.07 | 24.04 | 35.51 | 41.21 | 25.35 | 4.33 | 1.06 | 1.07 | 1.11 |
| 32000 | 11.07 | 11.06 | 11.11 | 11.05 | 11.06 | 11.08 | 0.09 | 29.90 | 34.21 | 38.92 | 30.18 | 4.66 | 1.17 | 1.18 | 1.25 |
| 33000 | 11.12 | 11.11 | 11.15 | 11.14 | 11.09 | 11.12 | 0.08 | 27.36 | 35.90 | 35.35 | 26.80 | 4.69 | 1.17 | 1.23 | 1.29 |
| 35000 | 11.32 | 11.29 | 11.34 | 11.31 | 11.26 | 11.28 | 0.10 | 29.51 | 31.09 | 31.16 | 31.84 | 5.00 | 1.27 | 1.21 | 1.25 |
| 36000 | 11.35 | 11.29 | 11.34 | 11.29 | 11.25 | 11.28 | 0.13 | 29.66 | 34.75 | 39.29 | 29.42 | 5.32 | 1.11 | 1.20 | 1.19 |
| 38000 | 11.40 | 11.37 | 11.44 | 11.40 | 11.35 | 11.36 | 0.14 | 28.18 | 33.15 | 36.55 | 27.41 | 5.39 | 1.03 | 1.06 | 1.06 |
| 40000 | 11.50 | 11.49 | 11.54 | 11.50 | 11.49 | 11.50 | 0.09 | 31.95 | 39.12 | 40.30 | 33.02 | 5.98 | 1.04 | 1.09 | 1.18 |

1. Total Loss = Insertion Loss + 9dB splitter loss.



Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV. A
ECO-005034
ZC8PD-K1844+
GY/CP/AM
201120
Page 2 of 2

8 Way-0° Power Splitter/Combiner

ZC8PD-K1844+

Typical Performance Data

Data tested at 25DegC

| FREQ. (MHz) | TOTAL LOSS ¹ (dB) | | | | | | AMP. UNBAL. (dB) | ISOLATION (dB) | | | | PHASE UNBAL. (deg.) | FREQ. (MHz) | VSWR (:1) | | |
|----------------|---------------------------------|-------|-------|-------|-------|-------|------------------------|-------------------|-------|-------|-------|---------------------------|----------------|--------------|------|------|
| | S-1 | S-2 | S-3 | S-4 | S-6 | S-8 | | 1-2 | 2-4 | 5-7 | 7-8 | | | S | 1 | 8 |
| 15000 | 10.14 | 10.15 | 10.14 | 10.09 | 10.12 | 10.14 | 0.06 | 26.06 | 27.75 | 29.04 | 26.10 | 2.07 | 15000 | 1.22 | 1.22 | 1.22 |
| 15500 | 10.15 | 10.15 | 10.12 | 10.12 | 10.13 | 10.17 | 0.05 | 22.80 | 28.93 | 29.92 | 22.29 | 2.14 | 15500 | 1.12 | 1.15 | 1.15 |
| 16000 | 10.14 | 10.15 | 10.19 | 10.14 | 10.14 | 10.16 | 0.07 | 21.90 | 30.48 | 30.87 | 21.15 | 2.62 | 16000 | 1.09 | 1.12 | 1.12 |
| 16500 | 10.22 | 10.23 | 10.31 | 10.25 | 10.20 | 10.21 | 0.13 | 24.00 | 35.44 | 33.23 | 23.35 | 2.03 | 16500 | 1.30 | 1.24 | 1.25 |
| 17000 | 10.23 | 10.24 | 10.24 | 10.23 | 10.25 | 10.28 | 0.05 | 37.36 | 29.71 | 27.53 | 33.22 | 2.28 | 17000 | 1.10 | 1.16 | 1.17 |
| 17500 | 10.32 | 10.34 | 10.32 | 10.29 | 10.28 | 10.31 | 0.07 | 37.35 | 26.47 | 24.92 | 34.55 | 2.10 | 17500 | 1.26 | 1.11 | 1.10 |
| 18000 | 10.31 | 10.33 | 10.35 | 10.30 | 10.29 | 10.31 | 0.09 | 26.93 | 29.60 | 27.82 | 24.59 | 2.59 | 18000 | 1.27 | 1.03 | 1.05 |
| 18500 | 10.38 | 10.40 | 10.40 | 10.36 | 10.36 | 10.38 | 0.05 | 26.30 | 47.17 | 43.85 | 25.69 | 2.36 | 18500 | 1.30 | 1.13 | 1.15 |
| 19000 | 10.34 | 10.37 | 10.33 | 10.31 | 10.32 | 10.35 | 0.06 | 40.48 | 32.00 | 30.56 | 37.72 | 2.61 | 19000 | 1.11 | 1.09 | 1.09 |
| 19500 | 10.38 | 10.41 | 10.38 | 10.34 | 10.35 | 10.36 | 0.09 | 39.25 | 31.61 | 28.48 | 39.72 | 2.76 | 19500 | 1.15 | 1.07 | 1.05 |
| 20000 | 10.44 | 10.47 | 10.47 | 10.43 | 10.43 | 10.44 | 0.07 | 27.30 | 39.34 | 31.59 | 27.13 | 2.99 | 20000 | 1.27 | 1.13 | 1.12 |
| 20500 | 10.47 | 10.51 | 10.50 | 10.46 | 10.44 | 10.45 | 0.09 | 22.95 | 37.95 | 42.08 | 22.87 | 2.98 | 20500 | 1.20 | 1.13 | 1.10 |
| 21000 | 10.45 | 10.48 | 10.47 | 10.44 | 10.42 | 10.44 | 0.07 | 24.84 | 30.46 | 36.87 | 26.23 | 3.04 | 21000 | 1.06 | 1.07 | 1.10 |
| 21500 | 10.50 | 10.52 | 10.52 | 10.46 | 10.48 | 10.49 | 0.07 | 24.15 | 30.08 | 33.10 | 24.54 | 3.29 | 21500 | 1.15 | 1.07 | 1.12 |
| 22000 | 10.49 | 10.50 | 10.52 | 10.49 | 10.49 | 10.49 | 0.06 | 23.95 | 37.63 | 37.35 | 24.58 | 3.33 | 22000 | 1.03 | 1.15 | 1.16 |
| 22500 | 10.53 | 10.54 | 10.56 | 10.53 | 10.54 | 10.54 | 0.06 | 35.55 | 35.71 | 39.67 | 37.93 | 3.47 | 22500 | 1.05 | 1.29 | 1.28 |
| 23000 | 10.61 | 10.60 | 10.64 | 10.60 | 10.58 | 10.57 | 0.10 | 34.66 | 30.69 | 34.35 | 32.71 | 3.17 | 23000 | 1.23 | 1.25 | 1.25 |
| 23500 | 10.59 | 10.59 | 10.60 | 10.55 | 10.56 | 10.57 | 0.08 | 29.01 | 29.82 | 32.76 | 29.87 | 3.58 | 23500 | 1.07 | 1.19 | 1.22 |
| 24000 | 10.73 | 10.72 | 10.71 | 10.70 | 10.70 | 10.71 | 0.06 | 26.59 | 29.14 | 31.59 | 26.91 | 3.56 | 24000 | 1.33 | 1.12 | 1.14 |
| 24500 | 10.64 | 10.63 | 10.65 | 10.63 | 10.65 | 10.65 | 0.06 | 23.36 | 33.45 | 37.14 | 23.93 | 3.76 | 24500 | 1.14 | 1.19 | 1.20 |
| 25000 | 10.78 | 10.77 | 10.81 | 10.75 | 10.75 | 10.75 | 0.11 | 26.94 | 34.67 | 34.04 | 29.49 | 3.55 | 25000 | 1.37 | 1.26 | 1.26 |
| 25500 | 10.73 | 10.72 | 10.74 | 10.72 | 10.69 | 10.71 | 0.07 | 34.27 | 27.37 | 27.29 | 41.25 | 3.88 | 25500 | 1.18 | 1.21 | 1.21 |
| 26000 | 10.89 | 10.88 | 10.89 | 10.86 | 10.86 | 10.88 | 0.06 | 27.75 | 28.49 | 28.22 | 29.06 | 3.71 | 26000 | 1.43 | 1.18 | 1.19 |
| 26500 | 10.74 | 10.73 | 10.79 | 10.73 | 10.72 | 10.74 | 0.10 | 25.70 | 43.45 | 40.09 | 24.51 | 3.96 | 26500 | 1.16 | 1.02 | 1.05 |
| 27000 | 10.76 | 10.75 | 10.81 | 10.74 | 10.74 | 10.77 | 0.09 | 30.91 | 32.12 | 33.84 | 30.70 | 3.85 | 27000 | 1.12 | 1.09 | 1.13 |
| 27500 | 10.83 | 10.82 | 10.85 | 10.82 | 10.76 | 10.80 | 0.10 | 27.79 | 30.06 | 30.81 | 28.67 | 4.01 | 27500 | 1.16 | 1.07 | 1.09 |
| 28000 | 10.86 | 10.85 | 10.88 | 10.83 | 10.82 | 10.84 | 0.09 | 29.37 | 34.42 | 34.41 | 32.92 | 3.93 | 28000 | 1.16 | 1.12 | 1.12 |
| 28500 | 10.86 | 10.85 | 10.91 | 10.86 | 10.81 | 10.82 | 0.14 | 33.75 | 39.89 | 41.56 | 40.12 | 4.18 | 28500 | 1.10 | 1.15 | 1.10 |
| 29000 | 10.89 | 10.86 | 10.94 | 10.87 | 10.87 | 10.88 | 0.10 | 28.95 | 37.22 | 46.78 | 30.76 | 4.15 | 29000 | 1.17 | 1.14 | 1.09 |
| 29500 | 10.94 | 10.92 | 10.94 | 10.92 | 10.88 | 10.89 | 0.10 | 27.06 | 33.05 | 38.32 | 29.62 | 4.07 | 29500 | 1.13 | 1.14 | 1.13 |
| 30000 | 10.95 | 10.94 | 10.95 | 10.89 | 10.91 | 10.93 | 0.07 | 24.04 | 35.51 | 41.21 | 25.35 | 4.33 | 30000 | 1.06 | 1.07 | 1.11 |
| 31000 | 10.99 | 10.99 | 11.03 | 10.99 | 10.98 | 10.99 | 0.08 | 37.74 | 32.89 | 35.27 | 29.97 | 4.46 | 31000 | 1.14 | 1.22 | 1.21 |
| 32000 | 11.07 | 11.06 | 11.11 | 11.05 | 11.06 | 11.08 | 0.09 | 29.90 | 34.21 | 38.92 | 30.18 | 4.66 | 32000 | 1.17 | 1.18 | 1.25 |
| 33000 | 11.12 | 11.11 | 11.15 | 11.14 | 11.09 | 11.12 | 0.08 | 27.36 | 35.90 | 35.35 | 26.80 | 4.69 | 33000 | 1.17 | 1.23 | 1.29 |
| 34000 | 11.20 | 11.19 | 11.25 | 11.19 | 11.19 | 11.23 | 0.08 | 31.94 | 30.38 | 32.15 | 31.02 | 5.00 | 34000 | 1.23 | 1.25 | 1.34 |
| 35000 | 11.32 | 11.29 | 11.34 | 11.31 | 11.26 | 11.28 | 0.10 | 29.51 | 31.09 | 31.16 | 31.84 | 5.00 | 35000 | 1.27 | 1.21 | 1.25 |
| 36000 | 11.35 | 11.29 | 11.34 | 11.29 | 11.25 | 11.28 | 0.13 | 29.66 | 34.75 | 39.29 | 29.42 | 5.32 | 36000 | 1.11 | 1.20 | 1.19 |
| 37000 | 11.37 | 11.33 | 11.41 | 11.37 | 11.34 | 11.34 | 0.14 | 42.37 | 32.45 | 34.58 | 36.77 | 5.32 | 37000 | 1.16 | 1.10 | 1.06 |
| 38000 | 11.40 | 11.37 | 11.44 | 11.40 | 11.35 | 11.36 | 0.14 | 28.18 | 33.15 | 36.55 | 27.41 | 5.39 | 38000 | 1.03 | 1.06 | 1.06 |
| 39000 | 11.47 | 11.48 | 11.51 | 11.46 | 11.47 | 11.47 | 0.09 | 31.99 | 42.62 | 37.78 | 29.37 | 5.84 | 39000 | 1.11 | 1.03 | 1.07 |
| 40000 | 11.50 | 11.49 | 11.54 | 11.50 | 11.49 | 11.50 | 0.09 | 31.95 | 39.12 | 40.30 | 33.02 | 5.98 | 40000 | 1.04 | 1.09 | 1.18 |
| 43500 | 11.78 | 11.72 | 11.78 | 11.70 | 11.71 | 11.71 | 0.14 | 31.42 | 31.76 | 31.08 | 29.76 | 6.25 | 43500 | 1.15 | 1.24 | 1.18 |

¹Total Loss = Insertion Loss + 9dB Splitter Loss



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. OR
ZC8PD-K1844+
6/10/2019
Page 1 of 5

8 Way-0° Power Splitter/Combiner

ZC8PD-K1844+

Typical Performance Data

Data tested at -55DegC

| FREQ. (MHz) | TOTAL LOSS ¹ (dB) | | | | | | AMP. UNBAL. (dB) | ISOLATION (dB) | | | | PHASE UNBAL. (deg.) | FREQ. (MHz) | VSWR (:1) | | |
|----------------|---------------------------------|-------|-------|-------|-------|-------|------------------------|-------------------|-------|-------|-------|---------------------------|----------------|--------------|------|------|
| | S-1 | S-2 | S-3 | S-4 | S-6 | S-8 | | 1-2 | 2-4 | 5-7 | 7-8 | | | S | 1 | 8 |
| 15000 | 10.11 | 10.10 | 10.36 | 10.05 | 10.07 | 10.12 | 0.31 | 25.73 | 28.20 | 29.65 | 25.73 | 2.91 | 15000 | 1.24 | 1.22 | 1.23 |
| 15500 | 10.11 | 10.10 | 10.30 | 10.04 | 10.09 | 10.14 | 0.26 | 22.46 | 29.31 | 30.10 | 22.01 | 2.43 | 15500 | 1.15 | 1.14 | 1.14 |
| 16000 | 10.07 | 10.07 | 10.37 | 10.08 | 10.09 | 10.12 | 0.31 | 22.01 | 30.24 | 30.60 | 21.22 | 2.89 | 16000 | 1.09 | 1.14 | 1.14 |
| 16500 | 10.17 | 10.17 | 10.47 | 10.21 | 10.16 | 10.19 | 0.33 | 24.41 | 36.19 | 33.39 | 23.66 | 2.98 | 16500 | 1.32 | 1.25 | 1.26 |
| 17000 | 10.17 | 10.17 | 10.34 | 10.19 | 10.18 | 10.22 | 0.17 | 42.85 | 28.72 | 26.74 | 35.99 | 3.18 | 17000 | 1.07 | 1.15 | 1.16 |
| 17500 | 10.27 | 10.28 | 10.42 | 10.22 | 10.25 | 10.29 | 0.19 | 35.90 | 26.27 | 24.75 | 33.60 | 2.63 | 17500 | 1.29 | 1.11 | 1.09 |
| 18000 | 10.24 | 10.25 | 10.42 | 10.24 | 10.21 | 10.26 | 0.21 | 26.55 | 30.63 | 28.77 | 24.46 | 3.12 | 18000 | 1.26 | 1.03 | 1.06 |
| 18500 | 10.31 | 10.32 | 10.46 | 10.29 | 10.29 | 10.34 | 0.18 | 27.25 | 45.52 | 41.46 | 26.48 | 3.00 | 18500 | 1.28 | 1.13 | 1.14 |
| 19000 | 10.28 | 10.29 | 10.37 | 10.25 | 10.27 | 10.31 | 0.13 | 42.47 | 32.05 | 29.98 | 37.17 | 2.88 | 19000 | 1.11 | 1.08 | 1.08 |
| 19500 | 10.32 | 10.34 | 10.42 | 10.28 | 10.28 | 10.33 | 0.14 | 38.47 | 32.47 | 28.77 | 37.36 | 2.88 | 19500 | 1.17 | 1.08 | 1.06 |
| 20000 | 10.37 | 10.40 | 10.48 | 10.39 | 10.37 | 10.41 | 0.11 | 26.62 | 39.80 | 31.52 | 26.33 | 2.92 | 20000 | 1.27 | 1.13 | 1.13 |
| 20500 | 10.40 | 10.42 | 10.52 | 10.42 | 10.38 | 10.41 | 0.14 | 22.76 | 36.70 | 41.28 | 22.70 | 2.84 | 20500 | 1.18 | 1.10 | 1.07 |
| 21000 | 10.38 | 10.40 | 10.50 | 10.39 | 10.39 | 10.41 | 0.13 | 25.78 | 29.75 | 35.34 | 27.35 | 2.55 | 21000 | 1.07 | 1.06 | 1.10 |
| 21500 | 10.46 | 10.47 | 10.55 | 10.42 | 10.43 | 10.46 | 0.14 | 23.64 | 30.45 | 32.41 | 23.84 | 2.71 | 21500 | 1.17 | 1.05 | 1.10 |
| 22000 | 10.45 | 10.45 | 10.53 | 10.41 | 10.43 | 10.46 | 0.12 | 24.79 | 43.10 | 37.72 | 25.74 | 2.60 | 22000 | 1.04 | 1.17 | 1.17 |
| 22500 | 10.48 | 10.48 | 10.58 | 10.46 | 10.45 | 10.48 | 0.15 | 41.91 | 33.47 | 38.27 | 37.20 | 2.73 | 22500 | 1.07 | 1.28 | 1.26 |
| 23000 | 10.57 | 10.56 | 10.67 | 10.50 | 10.52 | 10.54 | 0.18 | 34.09 | 31.15 | 35.58 | 32.93 | 2.64 | 23000 | 1.23 | 1.23 | 1.24 |
| 23500 | 10.56 | 10.55 | 10.59 | 10.47 | 10.48 | 10.51 | 0.15 | 28.05 | 29.94 | 32.72 | 28.81 | 3.05 | 23500 | 1.12 | 1.17 | 1.21 |
| 24000 | 10.66 | 10.64 | 10.70 | 10.58 | 10.61 | 10.65 | 0.12 | 26.29 | 28.89 | 31.28 | 26.45 | 2.64 | 24000 | 1.30 | 1.09 | 1.12 |
| 24500 | 10.58 | 10.58 | 10.69 | 10.56 | 10.57 | 10.61 | 0.15 | 23.00 | 35.52 | 40.72 | 23.55 | 2.86 | 24500 | 1.21 | 1.20 | 1.21 |
| 25000 | 10.68 | 10.68 | 10.78 | 10.61 | 10.60 | 10.65 | 0.20 | 28.51 | 32.26 | 31.79 | 31.54 | 3.09 | 25000 | 1.32 | 1.23 | 1.23 |
| 25500 | 10.69 | 10.69 | 10.75 | 10.64 | 10.63 | 10.69 | 0.13 | 32.02 | 26.98 | 26.95 | 36.94 | 3.17 | 25500 | 1.27 | 1.20 | 1.20 |
| 26000 | 10.77 | 10.78 | 10.84 | 10.72 | 10.73 | 10.77 | 0.13 | 27.15 | 29.78 | 29.34 | 27.95 | 2.88 | 26000 | 1.39 | 1.15 | 1.15 |
| 26500 | 10.65 | 10.64 | 10.74 | 10.62 | 10.61 | 10.67 | 0.14 | 26.45 | 48.47 | 46.74 | 25.19 | 3.04 | 26500 | 1.16 | 1.02 | 1.05 |
| 27000 | 10.67 | 10.65 | 10.74 | 10.62 | 10.61 | 10.68 | 0.13 | 31.49 | 31.76 | 33.07 | 31.73 | 3.10 | 27000 | 1.08 | 1.08 | 1.13 |
| 27500 | 10.72 | 10.72 | 10.79 | 10.71 | 10.66 | 10.73 | 0.13 | 28.15 | 30.63 | 31.25 | 29.48 | 3.15 | 27500 | 1.17 | 1.08 | 1.10 |
| 28000 | 10.76 | 10.74 | 10.83 | 10.72 | 10.70 | 10.75 | 0.14 | 30.29 | 34.51 | 34.19 | 34.82 | 3.05 | 28000 | 1.18 | 1.14 | 1.13 |
| 28500 | 10.75 | 10.73 | 10.84 | 10.72 | 10.70 | 10.74 | 0.14 | 32.04 | 43.27 | 43.55 | 36.13 | 3.06 | 28500 | 1.10 | 1.15 | 1.09 |
| 29000 | 10.79 | 10.74 | 10.86 | 10.75 | 10.74 | 10.78 | 0.12 | 29.10 | 35.09 | 42.10 | 30.93 | 3.11 | 29000 | 1.15 | 1.13 | 1.09 |
| 29500 | 10.82 | 10.78 | 10.90 | 10.79 | 10.75 | 10.79 | 0.16 | 26.18 | 33.25 | 38.10 | 28.71 | 3.19 | 29500 | 1.11 | 1.12 | 1.12 |
| 30000 | 10.84 | 10.80 | 10.89 | 10.79 | 10.77 | 10.82 | 0.14 | 24.09 | 38.96 | 47.46 | 25.67 | 3.08 | 30000 | 1.07 | 1.06 | 1.11 |
| 31000 | 10.89 | 10.84 | 10.93 | 10.85 | 10.84 | 10.89 | 0.10 | 39.10 | 33.89 | 37.32 | 30.59 | 3.15 | 31000 | 1.13 | 1.21 | 1.21 |
| 32000 | 10.95 | 10.91 | 10.98 | 10.91 | 10.91 | 10.96 | 0.09 | 29.88 | 33.63 | 38.44 | 30.07 | 3.32 | 32000 | 1.19 | 1.15 | 1.22 |
| 33000 | 11.01 | 10.98 | 11.08 | 11.00 | 10.98 | 11.05 | 0.12 | 29.70 | 33.02 | 32.75 | 28.46 | 3.41 | 33000 | 1.19 | 1.22 | 1.27 |
| 34000 | 11.11 | 11.07 | 11.17 | 11.07 | 11.07 | 11.14 | 0.12 | 36.48 | 32.63 | 34.74 | 34.03 | 3.62 | 34000 | 1.27 | 1.23 | 1.33 |
| 35000 | 11.19 | 11.15 | 11.26 | 11.14 | 11.13 | 11.18 | 0.15 | 31.06 | 31.46 | 31.92 | 33.61 | 3.82 | 35000 | 1.29 | 1.21 | 1.26 |
| 36000 | 11.19 | 11.14 | 11.23 | 11.11 | 11.12 | 11.16 | 0.12 | 31.00 | 34.23 | 38.27 | 30.40 | 4.01 | 36000 | 1.11 | 1.22 | 1.20 |
| 37000 | 11.24 | 11.19 | 11.31 | 11.19 | 11.16 | 11.20 | 0.15 | 37.27 | 31.76 | 33.67 | 34.73 | 4.20 | 37000 | 1.16 | 1.11 | 1.05 |
| 38000 | 11.25 | 11.21 | 11.31 | 11.22 | 11.18 | 11.23 | 0.14 | 26.99 | 35.35 | 39.74 | 26.67 | 4.20 | 38000 | 1.03 | 1.07 | 1.05 |
| 39000 | 11.29 | 11.27 | 11.36 | 11.26 | 11.26 | 11.30 | 0.13 | 33.77 | 43.39 | 40.11 | 29.87 | 4.26 | 39000 | 1.09 | 1.02 | 1.09 |
| 40000 | 11.33 | 11.32 | 11.42 | 11.31 | 11.30 | 11.33 | 0.15 | 31.19 | 37.37 | 38.60 | 31.91 | 4.41 | 40000 | 1.05 | 1.09 | 1.17 |
| 43500 | 11.56 | 11.47 | 11.59 | 11.47 | 11.44 | 11.48 | 0.16 | 30.50 | 34.05 | 33.17 | 28.08 | 4.76 | 43500 | 1.09 | 1.23 | 1.17 |

¹Total Loss = Insertion Loss + 9dB Splitter Loss



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. OR

ZC8PD-K1844+

6/10/2019

Page 2 of 5

| | | |
|-------|-------|-------|
| 19.49 | 19.99 | 19.90 |
| 23.02 | 23.45 | 23.59 |



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
 **The Design Engineers Search Engine** Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. OR
ZC8PD-K1844+
6/10/2019
Page 3 of 5

8 Way-0° Power Splitter/Combiner

ZC8PD-K1844+

Typical Performance Data

Data tested at 100DegC

| FREQ. (MHz) | TOTAL LOSS ¹ (dB) | | | | | | AMP. UNBAL. (dB) | ISOLATION (dB) | | | | PHASE UNBAL. (deg.) | FREQ. (MHz) | VSWR (:1) | | |
|----------------|---------------------------------|-------|-------|-------|-------|-------|------------------------|-------------------|-------|-------|-------|---------------------------|----------------|--------------|------|------|
| | S-1 | S-2 | S-3 | S-4 | S-6 | S-8 | | 1-2 | 2-4 | 5-7 | 7-8 | | | S | 1 | 8 |
| 15000 | 10.21 | 10.22 | 10.20 | 10.13 | 10.15 | 10.17 | 0.09 | 24.04 | 27.71 | 28.56 | 24.89 | 3.35 | 15000 | 1.21 | 1.27 | 1.27 |
| 15500 | 10.20 | 10.21 | 10.17 | 10.16 | 10.19 | 10.22 | 0.06 | 21.66 | 27.62 | 28.62 | 21.58 | 3.41 | 15500 | 1.11 | 1.20 | 1.20 |
| 16000 | 10.21 | 10.22 | 10.28 | 10.19 | 10.19 | 10.22 | 0.10 | 20.19 | 29.47 | 30.50 | 19.48 | 4.03 | 16000 | 1.08 | 1.10 | 1.09 |
| 16500 | 10.27 | 10.28 | 10.36 | 10.32 | 10.23 | 10.25 | 0.15 | 22.03 | 34.74 | 31.78 | 21.27 | 3.46 | 16500 | 1.28 | 1.24 | 1.25 |
| 17000 | 10.29 | 10.30 | 10.30 | 10.30 | 10.30 | 10.33 | 0.04 | 33.51 | 28.68 | 26.05 | 29.87 | 3.97 | 17000 | 1.11 | 1.16 | 1.17 |
| 17500 | 10.37 | 10.38 | 10.37 | 10.33 | 10.34 | 10.37 | 0.06 | 33.13 | 25.87 | 24.24 | 30.87 | 3.40 | 17500 | 1.22 | 1.08 | 1.09 |
| 18000 | 10.38 | 10.40 | 10.41 | 10.36 | 10.33 | 10.35 | 0.10 | 29.86 | 28.73 | 27.47 | 25.59 | 3.97 | 18000 | 1.28 | 1.06 | 1.10 |
| 18500 | 10.44 | 10.45 | 10.45 | 10.41 | 10.41 | 10.44 | 0.07 | 28.80 | 45.15 | 37.85 | 26.91 | 4.13 | 18500 | 1.28 | 1.14 | 1.18 |
| 19000 | 10.41 | 10.42 | 10.40 | 10.37 | 10.38 | 10.41 | 0.06 | 33.86 | 34.68 | 29.86 | 30.46 | 4.15 | 19000 | 1.11 | 1.08 | 1.09 |
| 19500 | 10.44 | 10.45 | 10.44 | 10.41 | 10.39 | 10.40 | 0.10 | 38.91 | 33.21 | 28.00 | 30.81 | 4.29 | 19500 | 1.14 | 1.06 | 1.03 |
| 20000 | 10.50 | 10.52 | 10.51 | 10.49 | 10.48 | 10.49 | 0.07 | 26.48 | 38.29 | 30.33 | 24.92 | 4.52 | 20000 | 1.25 | 1.08 | 1.07 |
| 20500 | 10.55 | 10.57 | 10.57 | 10.53 | 10.50 | 10.51 | 0.10 | 22.78 | 37.80 | 37.21 | 22.48 | 4.61 | 20500 | 1.21 | 1.09 | 1.06 |
| 21000 | 10.49 | 10.52 | 10.54 | 10.49 | 10.48 | 10.49 | 0.08 | 24.41 | 31.93 | 44.87 | 26.13 | 4.86 | 21000 | 1.04 | 1.06 | 1.10 |
| 21500 | 10.56 | 10.57 | 10.59 | 10.54 | 10.54 | 10.55 | 0.08 | 23.54 | 31.63 | 36.35 | 24.07 | 4.99 | 21500 | 1.16 | 1.09 | 1.15 |
| 22000 | 10.55 | 10.56 | 10.56 | 10.55 | 10.54 | 10.55 | 0.05 | 23.35 | 39.00 | 37.52 | 23.74 | 5.02 | 22000 | 1.03 | 1.14 | 1.16 |
| 22500 | 10.60 | 10.60 | 10.61 | 10.59 | 10.59 | 10.60 | 0.06 | 33.60 | 35.79 | 37.08 | 31.90 | 5.24 | 22500 | 1.05 | 1.31 | 1.29 |
| 23000 | 10.68 | 10.66 | 10.69 | 10.66 | 10.65 | 10.65 | 0.09 | 34.87 | 30.70 | 33.75 | 31.66 | 4.93 | 23000 | 1.25 | 1.30 | 1.28 |
| 23500 | 10.67 | 10.66 | 10.65 | 10.61 | 10.60 | 10.61 | 0.11 | 28.93 | 29.03 | 31.80 | 30.58 | 5.49 | 23500 | 1.05 | 1.22 | 1.25 |
| 24000 | 10.80 | 10.78 | 10.78 | 10.76 | 10.76 | 10.78 | 0.08 | 26.43 | 28.55 | 31.44 | 26.76 | 5.56 | 24000 | 1.34 | 1.13 | 1.15 |
| 24500 | 10.69 | 10.68 | 10.72 | 10.69 | 10.70 | 10.71 | 0.06 | 22.76 | 33.00 | 37.82 | 23.11 | 5.60 | 24500 | 1.11 | 1.15 | 1.17 |
| 25000 | 10.86 | 10.85 | 10.87 | 10.84 | 10.80 | 10.80 | 0.12 | 25.30 | 34.52 | 32.26 | 27.13 | 5.50 | 25000 | 1.37 | 1.24 | 1.25 |
| 25500 | 10.79 | 10.78 | 10.78 | 10.77 | 10.74 | 10.77 | 0.08 | 32.23 | 27.53 | 26.76 | 35.84 | 6.06 | 25500 | 1.14 | 1.17 | 1.20 |
| 26000 | 10.95 | 10.94 | 10.95 | 10.93 | 10.91 | 10.94 | 0.07 | 26.92 | 28.36 | 27.84 | 27.31 | 5.83 | 26000 | 1.40 | 1.15 | 1.16 |
| 26500 | 10.83 | 10.81 | 10.85 | 10.81 | 10.78 | 10.81 | 0.09 | 26.71 | 39.54 | 37.83 | 24.81 | 6.09 | 26500 | 1.17 | 1.02 | 1.05 |
| 27000 | 10.84 | 10.83 | 10.86 | 10.82 | 10.79 | 10.83 | 0.08 | 33.30 | 34.40 | 33.89 | 32.13 | 6.15 | 27000 | 1.12 | 1.10 | 1.15 |
| 27500 | 10.88 | 10.86 | 10.90 | 10.87 | 10.83 | 10.88 | 0.07 | 29.79 | 31.35 | 30.50 | 31.20 | 6.09 | 27500 | 1.12 | 1.07 | 1.10 |
| 28000 | 10.93 | 10.92 | 10.95 | 10.91 | 10.87 | 10.88 | 0.12 | 31.61 | 35.02 | 32.94 | 36.70 | 6.29 | 28000 | 1.16 | 1.10 | 1.11 |
| 28500 | 10.94 | 10.92 | 10.97 | 10.93 | 10.88 | 10.90 | 0.12 | 34.52 | 42.48 | 38.08 | 35.03 | 6.46 | 28500 | 1.10 | 1.14 | 1.09 |
| 29000 | 10.97 | 10.95 | 11.02 | 10.96 | 10.93 | 10.95 | 0.12 | 28.55 | 39.98 | 52.48 | 29.37 | 6.77 | 29000 | 1.16 | 1.16 | 1.09 |
| 29500 | 11.01 | 10.98 | 11.03 | 10.97 | 10.95 | 10.98 | 0.11 | 26.78 | 34.16 | 42.00 | 29.31 | 6.56 | 29500 | 1.14 | 1.17 | 1.15 |
| 30000 | 11.03 | 11.00 | 11.02 | 10.99 | 10.96 | 10.99 | 0.09 | 23.75 | 36.15 | 43.38 | 25.11 | 6.88 | 30000 | 1.06 | 1.12 | 1.15 |
| 31000 | 11.07 | 11.06 | 11.09 | 11.06 | 11.04 | 11.06 | 0.08 | 35.79 | 33.12 | 35.72 | 28.81 | 7.17 | 31000 | 1.14 | 1.24 | 1.22 |
| 32000 | 11.15 | 11.14 | 11.17 | 11.13 | 11.11 | 11.13 | 0.09 | 31.77 | 33.60 | 38.08 | 32.23 | 7.45 | 32000 | 1.17 | 1.19 | 1.26 |
| 33000 | 11.19 | 11.17 | 11.23 | 11.18 | 11.17 | 11.20 | 0.08 | 27.71 | 35.91 | 34.03 | 27.01 | 7.57 | 33000 | 1.15 | 1.21 | 1.27 |
| 34000 | 11.27 | 11.26 | 11.31 | 11.25 | 11.24 | 11.28 | 0.09 | 32.88 | 30.51 | 31.44 | 32.58 | 7.78 | 34000 | 1.18 | 1.22 | 1.33 |
| 35000 | 11.37 | 11.35 | 11.39 | 11.35 | 11.33 | 11.35 | 0.08 | 30.58 | 32.68 | 31.88 | 32.28 | 7.69 | 35000 | 1.23 | 1.18 | 1.24 |
| 36000 | 11.40 | 11.34 | 11.39 | 11.34 | 11.32 | 11.36 | 0.10 | 30.23 | 34.53 | 37.17 | 30.17 | 8.06 | 36000 | 1.09 | 1.17 | 1.18 |
| 37000 | 11.46 | 11.42 | 11.48 | 11.45 | 11.41 | 11.42 | 0.13 | 41.51 | 33.22 | 35.70 | 34.63 | 8.17 | 37000 | 1.19 | 1.11 | 1.06 |
| 38000 | 11.48 | 11.45 | 11.52 | 11.47 | 11.42 | 11.44 | 0.14 | 28.46 | 33.45 | 38.04 | 27.72 | 8.44 | 38000 | 1.05 | 1.02 | 1.06 |
| 39000 | 11.56 | 11.57 | 11.57 | 11.55 | 11.53 | 11.54 | 0.07 | 30.09 | 44.45 | 38.89 | 28.61 | 8.88 | 39000 | 1.13 | 1.04 | 1.06 |
| 40000 | 11.56 | 11.54 | 11.59 | 11.57 | 11.55 | 11.57 | 0.08 | 34.41 | 37.95 | 39.68 | 35.53 | 9.08 | 40000 | 1.04 | 1.08 | 1.17 |
| 43500 | 11.86 | 11.80 | 11.87 | 11.80 | 11.77 | 11.80 | 0.14 | 31.31 | 32.07 | 30.93 | 29.64 | 9.73 | 43500 | 1.18 | 1.23 | 1.19 |

¹Total Loss = Insertion Loss + 9dB Splitter Loss



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site




The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. OR
ZC8PD-K1844+
6/10/2019
Page 4 of 5

| | | |
|-------|-------|-------|
| 20.31 | 18.61 | 18.52 |
| 25.42 | 20.86 | 20.90 |

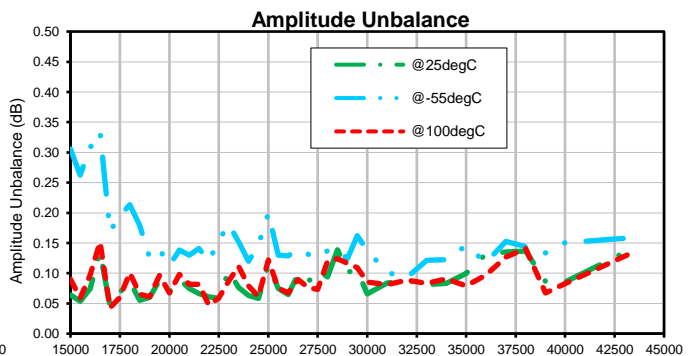
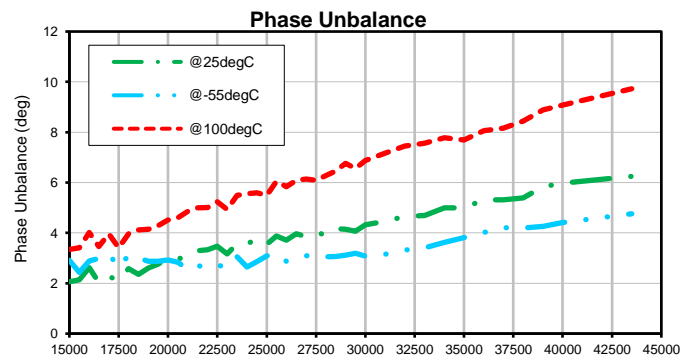
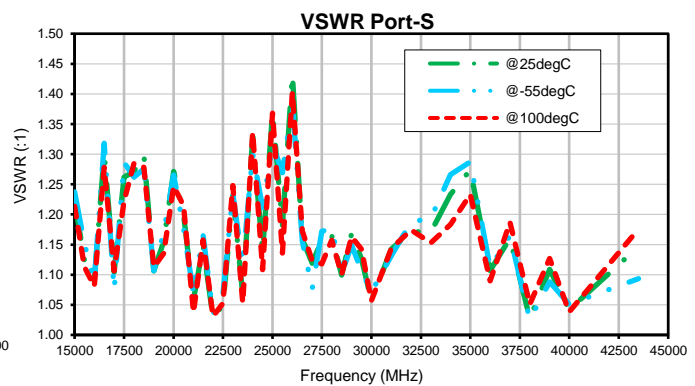
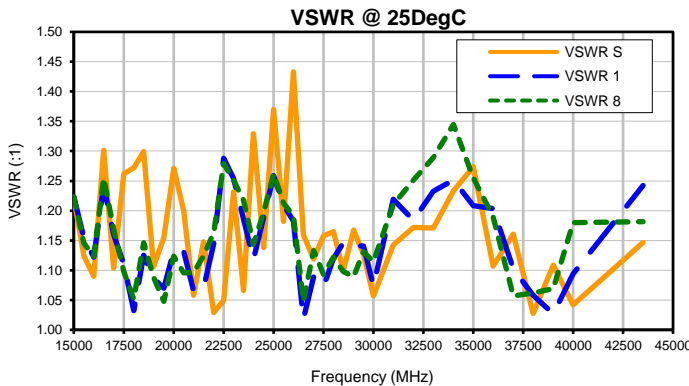
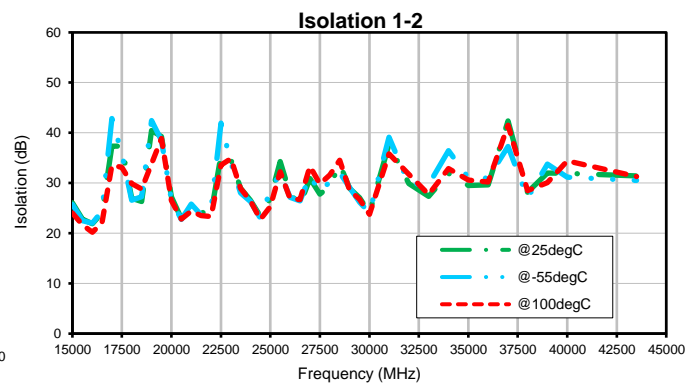
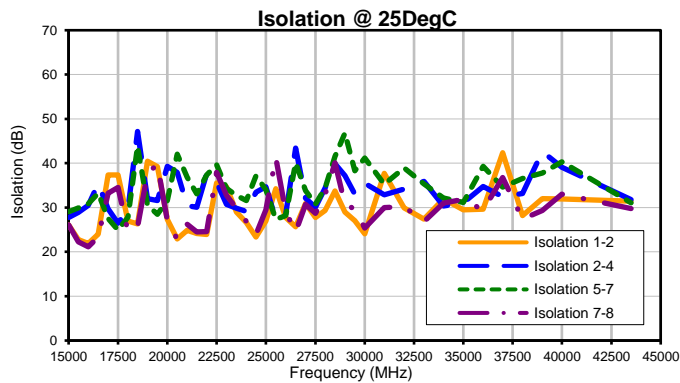
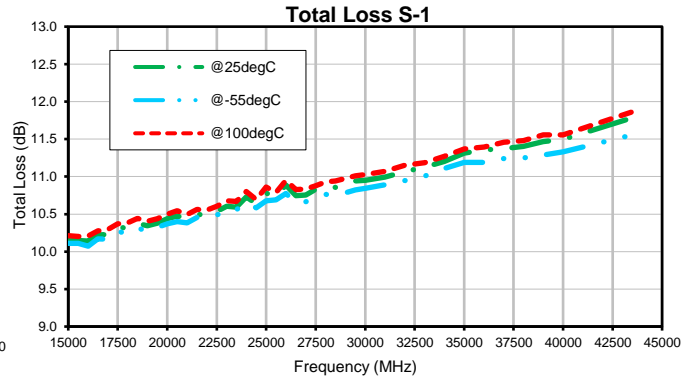
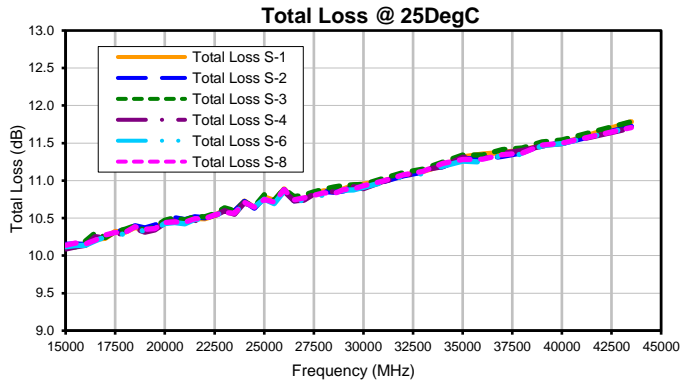


P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
 **The Design Engineers Search Engine** Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. OR
ZC8PD-K1844+
6/10/2019
Page 5 of 5

Typical Performance Curves



ISO 9001 ISO 14001 AS 9100 CERTIFIED



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



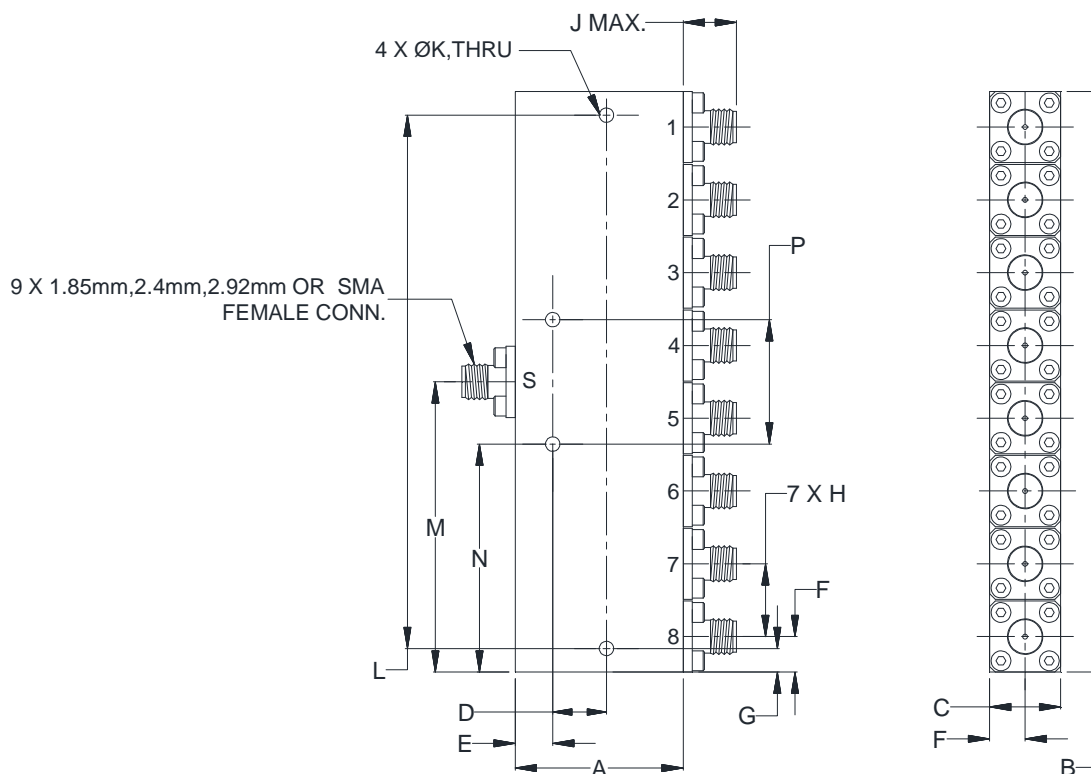
The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. OR
ZC8PD-K1844+
6/10/2019
Page 1 of 1

Outline Dimensions

UU2415-5



| CASE# | A | B | C | D | E | F | G | H | J | K | L | M |
|----------|-----------------|------------------|----------------|----------------|----------------|---------------|----------------|----------------|---------------|----------------|------------------|-----------------|
| UU2415-5 | 1.18 (30.00) | 4.08 (103.70) | .50 (12.70) | .378 (9.60) | .264 (6.70) | .25 (6.35) | .166 (4.22) | .51 (13.00) | .47 (12.0) | .102 (2.60) | 3.750 (95.25) | 2.04 (51.85) |

| CASE# | N | P | WT. GRAMS |
|----------|------------------|-----------------|-----------|
| UU2415-5 | 1.604 (40.74) | .875 (22.22) | 150 |

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.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS

UU2415-5 Rev.: BB (27 JUN 22) ECO-013837 File: UU2415-5.DOC

This document and its contents are the property of Mini-Circuits



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 |