



SURFACE MOUNT

Power Splitter/Combiner **SCA-4-10-75+**

4 Way-0° 75Ω 10 to 1000 MHz

FEATURES

- Wideband, 10-1000 MHz
- High isolation, 25 dB typ.
- Good amplitude unbalance, 0.5 dB typ.



Generic photo used for illustration purposes only

CASE STYLE: DZ943

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our website for methodologies and qualifications

APPLICATIONS

- Cellular
- UHF/VHF receivers/transmitters

ELECTRICAL SPECIFICATIONS AT 25°C¹

| Parameter | Frequency (MHz) | Min. | Typ. | Max. | Unit |
|------------------------------|-----------------|------|------|------|--------|
| Frequency Range | | 10 | | 1000 | MHz |
| Insertion Loss, above 6.0 dB | 10-400 | | 1.2 | 2.3 | dB |
| | 400-650 | | 1.5 | 2.2 | |
| | 650-1000 | | 2.0 | 2.5 | |
| Isolation | 10-400 | 22 | 30 | | dB |
| | 400-650 | 18 | 25 | | |
| | 650-1000 | 15 | 20 | | |
| Phase Unbalance | 10-400 | | | 6 | Degree |
| | 400-650 | | | 9 | |
| | 650-1000 | | | 10 | |
| Amplitude Unbalance | 10-400 | | | 1.2 | dB |
| | 400-650 | | | 0.9 | |
| | 650-1000 | | | 0.9 | |

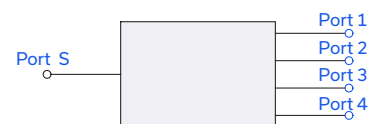
1. Tested on Evaluation Board TB-SCA-4-10-75+

MAXIMUM RATINGS

| Parameter | Ratings |
|-----------------------------|----------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| Power Input (as a splitter) | 0.5W max. |
| Internal Dissipation | 0.375W max. |

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

ELECTRICAL SCHEMATIC





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Power Splitter/Combiner **SCA-4-10-75+**

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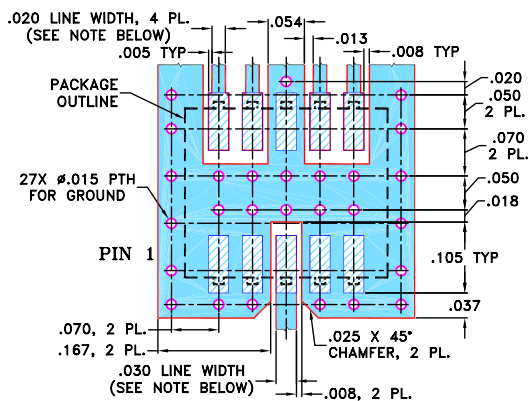
PIN CONNECTIONS

| | |
|-------------------|-----------|
| SUM PORT (PORT S) | 3 |
| PORT 1 | 6 |
| PORT 2 | 7 |
| PORT 3 | 9 |
| PORT 4 | 10 |
| GROUND | 1,2,4,5,8 |

***PRODUCT MARKING:** SCA-4-10-75

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

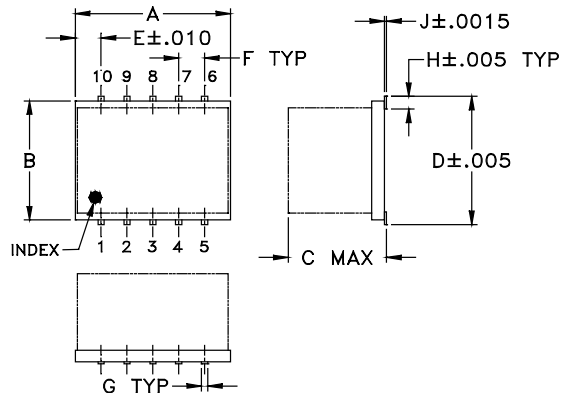
**EVALUATION BOARD MCL P/N: TB-SCA-4-10-75+
SUGGESTED PCB LAYOUT (PL-133)**



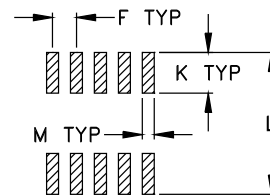
NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350 WITH DIELECTRIC THICKNESS 0.030" ± 0.002", COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT
- DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

OUTLINE DRAWING



PCB Land Pattern



OUTLINE DIMENSIONS (Inches/mm)

| | | | | | | |
|------|------|------|------|------|------|-------|
| A | B | C | D | E | F | G |
| .30 | .250 | .190 | .266 | .050 | .050 | .012 |
| 7.62 | 6.35 | 4.83 | 6.76 | 1.27 | 1.27 | 0.30 |
| H | J | K | L | M | | wt |
| .029 | .004 | .085 | .296 | .030 | | grams |
| 0.74 | 0.10 | 2.16 | 7.52 | 0.76 | | 0.5 |

TAPE & REEL INFORMATION: F34





SURFACE MOUNT

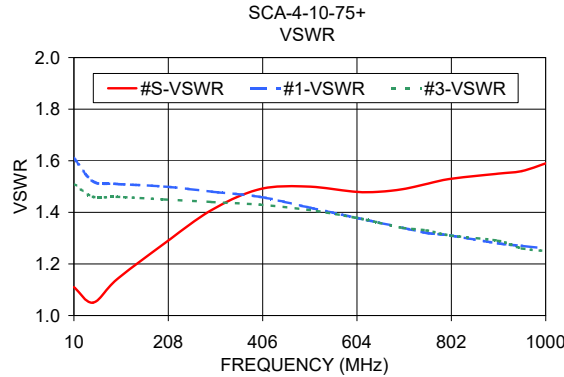
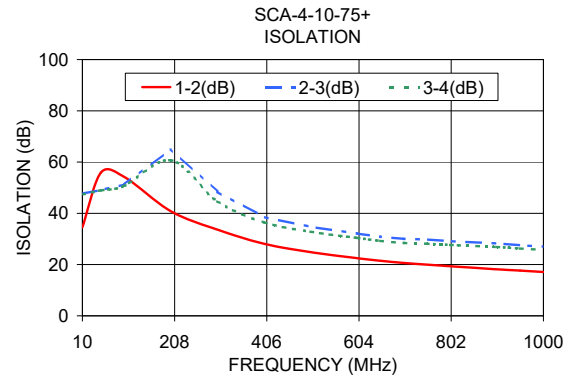
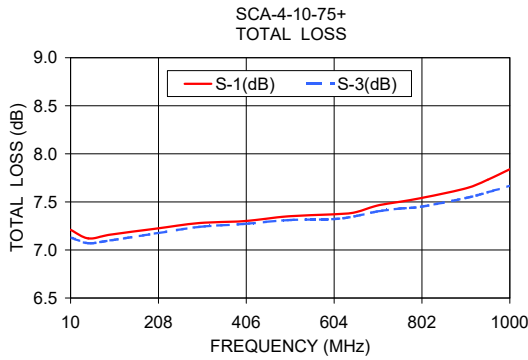
Power Splitter/Combiner SCA-4-10-75+

4 Way-0° 75Ω 10 to 1000 MHz

TYPICAL PERFORMANCE DATA

| Frequency (MHz) | Total Loss ¹ (dB) | | | | Amplitude Unbalance (dB) | Isolation (dB) | | | Phase Unbalance (deg.) | VSWR (:1) | | | | |
|-----------------|------------------------------|------|------|------|--------------------------|----------------|-------|-------|------------------------|-----------|------|------|------|------|
| | S-1 | S-2 | S-3 | S-4 | | 1-2 | 1-3 | 2-3 | | S | 1 | 2 | 3 | 4 |
| 10.00 | 7.21 | 6.78 | 7.13 | 7.53 | 0.74 | 34.55 | 47.68 | 47.34 | 1.86 | 1.11 | 1.61 | 1.48 | 1.51 | 1.64 |
| 50.00 | 7.12 | 6.75 | 7.07 | 7.43 | 0.68 | 55.90 | 49.10 | 48.97 | 0.85 | 1.05 | 1.52 | 1.42 | 1.46 | 1.57 |
| 100.00 | 7.16 | 6.77 | 7.10 | 7.48 | 0.71 | 54.20 | 51.26 | 50.69 | 0.94 | 1.14 | 1.51 | 1.43 | 1.46 | 1.55 |
| 200.00 | 7.22 | 6.87 | 7.17 | 7.53 | 0.66 | 40.79 | 65.07 | 60.68 | 1.45 | 1.28 | 1.50 | 1.44 | 1.45 | 1.52 |
| 300.00 | 7.28 | 6.95 | 7.24 | 7.56 | 0.61 | 33.63 | 48.42 | 44.66 | 2.13 | 1.41 | 1.48 | 1.45 | 1.44 | 1.49 |
| 400.00 | 7.30 | 7.01 | 7.27 | 7.56 | 0.55 | 28.11 | 38.54 | 36.47 | 2.40 | 1.49 | 1.46 | 1.46 | 1.43 | 1.45 |
| 500.00 | 7.35 | 7.03 | 7.31 | 7.59 | 0.56 | 24.85 | 34.71 | 32.80 | 2.83 | 1.50 | 1.42 | 1.44 | 1.41 | 1.41 |
| 600.00 | 7.37 | 7.02 | 7.32 | 7.60 | 0.58 | 22.50 | 32.13 | 30.41 | 2.98 | 1.48 | 1.38 | 1.40 | 1.38 | 1.36 |
| 650.00 | 7.39 | 7.04 | 7.35 | 7.63 | 0.59 | 21.50 | 30.85 | 29.23 | 3.11 | 1.48 | 1.36 | 1.39 | 1.36 | 1.34 |
| 700.00 | 7.46 | 7.11 | 7.40 | 7.67 | 0.56 | 20.63 | 30.04 | 28.44 | 3.53 | 1.49 | 1.34 | 1.37 | 1.34 | 1.33 |
| 750.00 | 7.50 | 7.14 | 7.43 | 7.70 | 0.56 | 19.98 | 29.78 | 28.11 | 3.53 | 1.51 | 1.32 | 1.34 | 1.33 | 1.31 |
| 800.00 | 7.54 | 7.15 | 7.45 | 7.75 | 0.59 | 19.37 | 29.15 | 27.66 | 3.59 | 1.53 | 1.31 | 1.32 | 1.31 | 1.30 |
| 900.00 | 7.64 | 7.26 | 7.54 | 7.82 | 0.56 | 18.17 | 28.23 | 26.83 | 4.14 | 1.55 | 1.28 | 1.27 | 1.29 | 1.29 |
| 950.00 | 7.73 | 7.31 | 7.60 | 7.88 | 0.57 | 17.63 | 27.54 | 26.25 | 4.30 | 1.56 | 1.27 | 1.25 | 1.26 | 1.29 |
| 1000.00 | 7.84 | 7.40 | 7.67 | 7.98 | 0.57 | 17.09 | 26.99 | 25.74 | 4.59 | 1.59 | 1.26 | 1.24 | 1.25 | 1.29 |

1. Total Loss = Insertion Loss + 6.0 dB splitter loss.



- 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/terms/viewterm.html



4 Way-0° Power Splitter/Combiner

SCA-4-10-75+

Typical Performance Data

| 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 | | 1-2 | 1-3 | 2-3 | | | S | 1 | 2 | 3 | 4 |
| 10.0 | 7.21 | 6.78 | 7.13 | 7.53 | 0.74 | 34.55 | 47.68 | 47.34 | 1.86 | 10.0 | 1.11 | 1.61 | 1.48 | 1.51 | 1.64 |
| 20.0 | 7.12 | 6.73 | 7.07 | 7.44 | 0.71 | 39.97 | 49.71 | 49.42 | 1.17 | 20.0 | 1.03 | 1.55 | 1.43 | 1.47 | 1.59 |
| 30.0 | 7.10 | 6.74 | 7.07 | 7.41 | 0.67 | 44.36 | 52.11 | 51.64 | 0.88 | 30.0 | 1.02 | 1.53 | 1.43 | 1.47 | 1.57 |
| 40.0 | 7.14 | 6.76 | 7.09 | 7.45 | 0.70 | 50.25 | 51.05 | 50.62 | 0.72 | 40.0 | 1.03 | 1.53 | 1.42 | 1.46 | 1.57 |
| 50.0 | 7.12 | 6.75 | 7.07 | 7.43 | 0.68 | 55.90 | 49.10 | 48.97 | 0.85 | 50.0 | 1.05 | 1.52 | 1.42 | 1.46 | 1.57 |
| 60.0 | 7.12 | 6.77 | 7.11 | 7.44 | 0.67 | 57.22 | 47.96 | 47.55 | 0.77 | 60.0 | 1.06 | 1.53 | 1.42 | 1.46 | 1.57 |
| 70.0 | 7.15 | 6.77 | 7.09 | 7.47 | 0.70 | 59.48 | 48.21 | 47.92 | 0.80 | 70.0 | 1.08 | 1.52 | 1.42 | 1.45 | 1.56 |
| 80.0 | 7.14 | 6.77 | 7.09 | 7.44 | 0.67 | 61.61 | 49.98 | 49.57 | 1.04 | 80.0 | 1.10 | 1.51 | 1.42 | 1.45 | 1.56 |
| 90.0 | 7.16 | 6.81 | 7.13 | 7.47 | 0.66 | 57.92 | 50.92 | 51.12 | 0.71 | 90.0 | 1.11 | 1.51 | 1.42 | 1.46 | 1.56 |
| 100.0 | 7.16 | 6.77 | 7.10 | 7.48 | 0.71 | 54.20 | 51.26 | 50.69 | 0.94 | 100.0 | 1.14 | 1.51 | 1.43 | 1.46 | 1.55 |
| 150.0 | 7.22 | 6.83 | 7.15 | 7.53 | 0.70 | 46.44 | 55.42 | 55.32 | 1.21 | 150.0 | 1.21 | 1.50 | 1.43 | 1.45 | 1.54 |
| 200.0 | 7.22 | 6.87 | 7.17 | 7.53 | 0.66 | 40.79 | 65.07 | 60.68 | 1.45 | 200.0 | 1.28 | 1.50 | 1.44 | 1.45 | 1.52 |
| 250.0 | 7.23 | 6.91 | 7.20 | 7.53 | 0.62 | 36.85 | 55.84 | 51.75 | 1.84 | 250.0 | 1.35 | 1.49 | 1.45 | 1.44 | 1.51 |
| 275.0 | 7.25 | 6.94 | 7.22 | 7.52 | 0.58 | 34.48 | 48.29 | 45.38 | 2.08 | 275.0 | 1.39 | 1.49 | 1.46 | 1.46 | 1.51 |
| 300.0 | 7.28 | 6.95 | 7.24 | 7.56 | 0.61 | 33.63 | 48.42 | 44.66 | 2.13 | 300.0 | 1.41 | 1.48 | 1.45 | 1.44 | 1.49 |
| 325.0 | 7.32 | 7.00 | 7.27 | 7.58 | 0.59 | 31.80 | 43.90 | 41.54 | 2.29 | 325.0 | 1.44 | 1.48 | 1.46 | 1.45 | 1.49 |
| 350.0 | 7.30 | 6.98 | 7.26 | 7.56 | 0.58 | 30.57 | 41.89 | 39.62 | 2.28 | 350.0 | 1.45 | 1.46 | 1.46 | 1.44 | 1.47 |
| 375.0 | 7.30 | 6.99 | 7.26 | 7.56 | 0.57 | 29.52 | 41.29 | 38.95 | 2.41 | 375.0 | 1.48 | 1.46 | 1.46 | 1.44 | 1.46 |
| 400.0 | 7.30 | 7.01 | 7.27 | 7.56 | 0.55 | 28.11 | 38.54 | 36.47 | 2.40 | 400.0 | 1.49 | 1.46 | 1.46 | 1.43 | 1.45 |
| 425.0 | 7.30 | 7.00 | 7.28 | 7.56 | 0.55 | 27.37 | 37.95 | 35.86 | 2.58 | 425.0 | 1.49 | 1.45 | 1.46 | 1.43 | 1.44 |
| 450.0 | 7.35 | 7.04 | 7.30 | 7.60 | 0.57 | 26.35 | 36.63 | 34.59 | 2.63 | 450.0 | 1.49 | 1.44 | 1.45 | 1.43 | 1.43 |
| 475.0 | 7.33 | 7.03 | 7.32 | 7.58 | 0.55 | 25.55 | 35.48 | 33.58 | 3.03 | 475.0 | 1.50 | 1.43 | 1.45 | 1.41 | 1.42 |
| 500.0 | 7.35 | 7.03 | 7.31 | 7.59 | 0.56 | 24.85 | 34.71 | 32.80 | 2.83 | 500.0 | 1.50 | 1.42 | 1.44 | 1.41 | 1.41 |
| 525.0 | 7.36 | 7.02 | 7.31 | 7.59 | 0.56 | 24.17 | 33.84 | 32.06 | 3.03 | 525.0 | 1.50 | 1.40 | 1.43 | 1.41 | 1.39 |
| 550.0 | 7.36 | 7.01 | 7.31 | 7.59 | 0.59 | 23.54 | 33.26 | 31.51 | 2.92 | 550.0 | 1.50 | 1.41 | 1.42 | 1.39 | 1.39 |
| 575.0 | 7.35 | 7.01 | 7.30 | 7.59 | 0.57 | 22.92 | 32.37 | 30.70 | 3.11 | 575.0 | 1.49 | 1.39 | 1.42 | 1.39 | 1.37 |
| 600.0 | 7.37 | 7.02 | 7.32 | 7.60 | 0.58 | 22.50 | 32.13 | 30.41 | 2.98 | 600.0 | 1.48 | 1.38 | 1.40 | 1.38 | 1.36 |
| 625.0 | 7.39 | 7.06 | 7.35 | 7.62 | 0.56 | 21.86 | 31.45 | 29.78 | 3.12 | 625.0 | 1.50 | 1.37 | 1.39 | 1.36 | 1.35 |
| 650.0 | 7.39 | 7.04 | 7.35 | 7.63 | 0.59 | 21.50 | 30.85 | 29.23 | 3.11 | 650.0 | 1.48 | 1.36 | 1.39 | 1.36 | 1.34 |
| 675.0 | 7.43 | 7.08 | 7.38 | 7.65 | 0.57 | 21.11 | 30.87 | 29.12 | 3.31 | 675.0 | 1.49 | 1.34 | 1.37 | 1.35 | 1.33 |
| 700.0 | 7.46 | 7.11 | 7.40 | 7.67 | 0.56 | 20.63 | 30.04 | 28.44 | 3.53 | 700.0 | 1.49 | 1.34 | 1.37 | 1.34 | 1.33 |
| 750.0 | 7.50 | 7.14 | 7.43 | 7.70 | 0.56 | 19.98 | 29.78 | 28.11 | 3.53 | 750.0 | 1.51 | 1.32 | 1.34 | 1.33 | 1.31 |
| 800.0 | 7.54 | 7.15 | 7.45 | 7.75 | 0.59 | 19.37 | 29.15 | 27.66 | 3.59 | 800.0 | 1.53 | 1.31 | 1.32 | 1.31 | 1.30 |
| 850.0 | 7.61 | 7.23 | 7.52 | 7.80 | 0.57 | 18.70 | 28.59 | 27.23 | 3.81 | 850.0 | 1.53 | 1.29 | 1.29 | 1.30 | 1.29 |
| 875.0 | 7.65 | 7.24 | 7.53 | 7.83 | 0.58 | 18.42 | 28.36 | 26.90 | 3.96 | 875.0 | 1.54 | 1.29 | 1.30 | 1.28 | 1.29 |
| 900.0 | 7.64 | 7.26 | 7.54 | 7.82 | 0.56 | 18.17 | 28.23 | 26.83 | 4.14 | 900.0 | 1.55 | 1.28 | 1.27 | 1.29 | 1.29 |
| 925.0 | 7.69 | 7.28 | 7.57 | 7.85 | 0.57 | 17.84 | 27.85 | 26.45 | 4.33 | 925.0 | 1.57 | 1.29 | 1.28 | 1.28 | 1.29 |
| 950.0 | 7.73 | 7.31 | 7.60 | 7.88 | 0.57 | 17.63 | 27.54 | 26.25 | 4.30 | 950.0 | 1.56 | 1.27 | 1.25 | 1.26 | 1.29 |
| 975.0 | 7.80 | 7.36 | 7.65 | 7.94 | 0.58 | 17.41 | 27.49 | 26.24 | 4.50 | 975.0 | 1.59 | 1.29 | 1.27 | 1.27 | 1.30 |
| 1000.0 | 7.84 | 7.40 | 7.67 | 7.98 | 0.57 | 17.09 | 26.99 | 25.74 | 4.59 | 1000.0 | 1.59 | 1.26 | 1.24 | 1.25 | 1.29 |

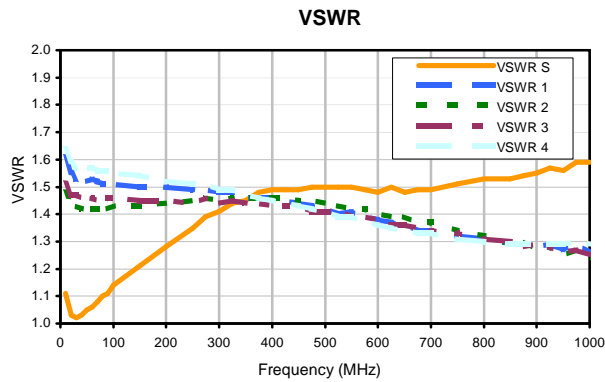
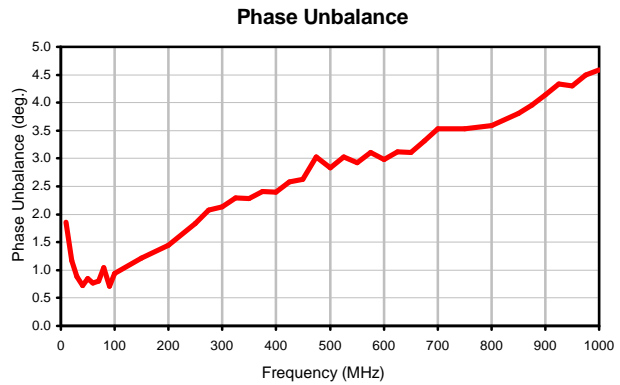
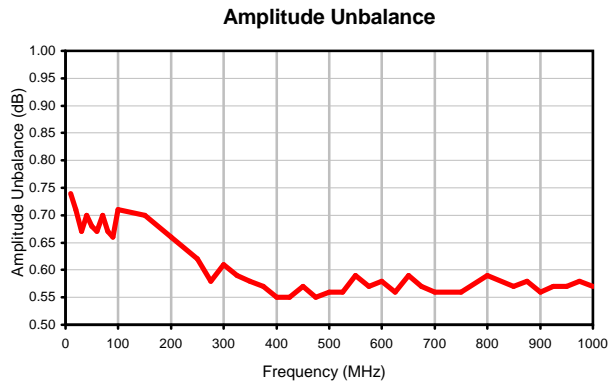
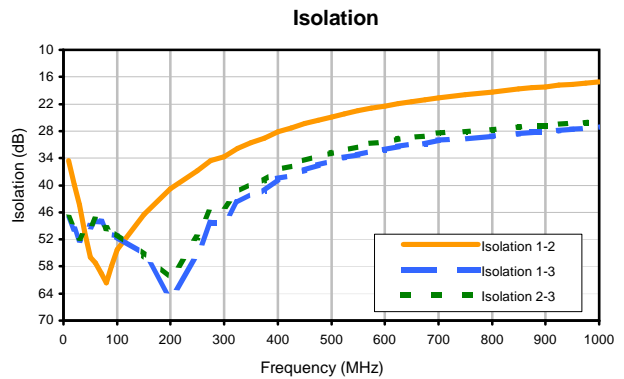
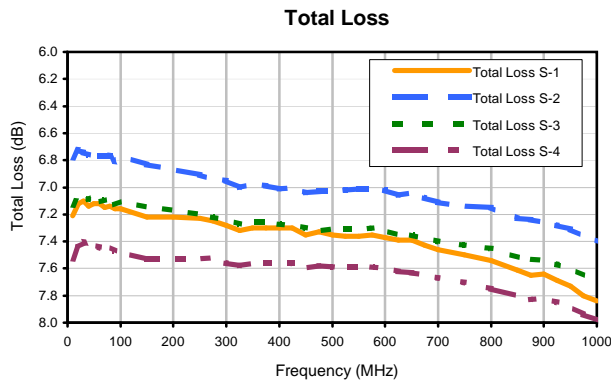
¹ Total Loss = Insertion Loss+ 6dB Splitter Loss



4 Way-0° Power Splitter/Combiner

SCA-4-10-75+

Typical Performance Curves



REV. X2
SCA-4-10-75+
100627
Page 1 of 1

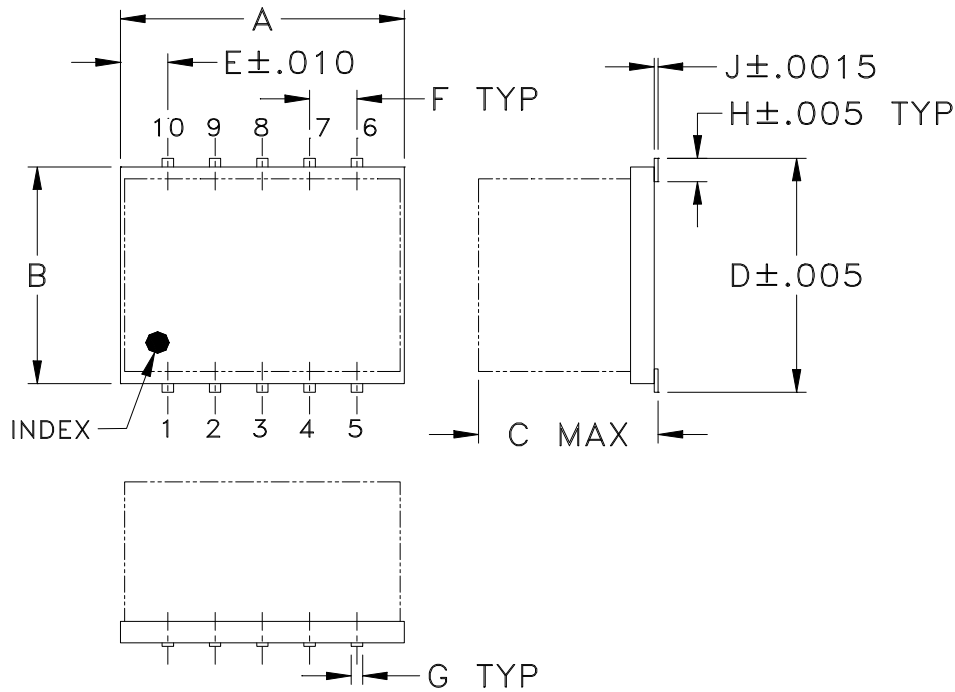


The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see minicircuits.com

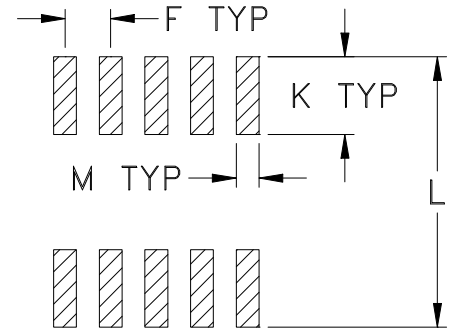
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Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within $\pm.002$

| CASE# | A | B | C | D | E | F | G | H | J | K | L | M | WT. GRAMS |
|-------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| DZ943 | .30 (7.62) | .250 (6.35) | .190 (4.83) | .266 (6.76) | .050 (1.27) | .050 (1.27) | .012 (0.30) | .029 (0.74) | .004 (0.10) | .085 (2.16) | .296 (7.52) | .030 (0.76) | 0.5 |

Dimensions are in inches (mm). Tolerances: 2Pl. $\pm .01$; 3Pl. $\pm .005$

Notes:

- Case material: Plastic.
- Base: Ceramic.
- Termination finish:
 - For RoHS Case Styles: Tin plate. All models, (+) suffix.
 - For RoHS-5 Case Styles: Tin-Lead plate. All models, no (+) suffix.



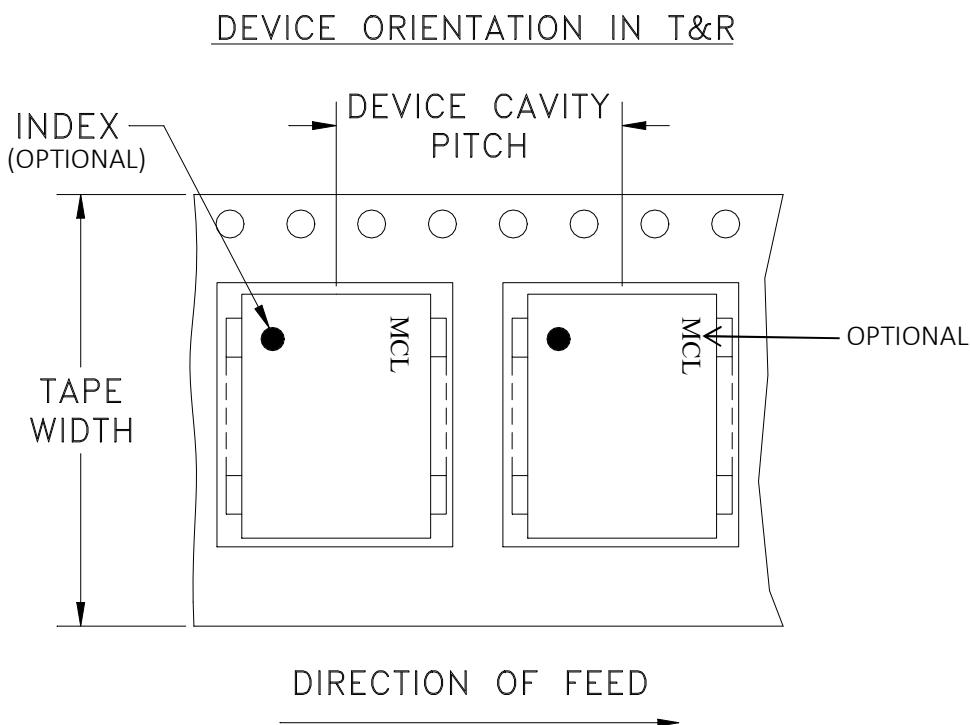
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Mini-Circuits ISO 9001 & ISO 14001 Certified

Tape & Reel Packaging TR-F34



| Tape Width, mm | Device Cavity Pitch, mm | Reel Size, inches | Devices per Reel see note | |
|----------------|-------------------------|-------------------|------------------------------------|------|
| 16 | 12 | 7 | Small quantity standard (see note) | 20 |
| | | | | 50 |
| | | | | 100 |
| | | | | 200 |
| | | 13 | Standard | 500 |
| | | | | 1000 |

Note: Availability of small reel quantity varies by model.
Refer to pricing and availability on individual model dashboard.

Mini-Circuits carrier tape materials provide protection from ESD (Electro-Static Discharge) during handling and transportation. Tapes are static dissipative and comply with industry standards EIA-481/EIA-541.

Go to: www.minicircuits.com/pages/pdfs/tape.pdf



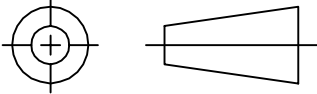
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Mini-Circuits ISO 9001 & ISO 14001 Certified

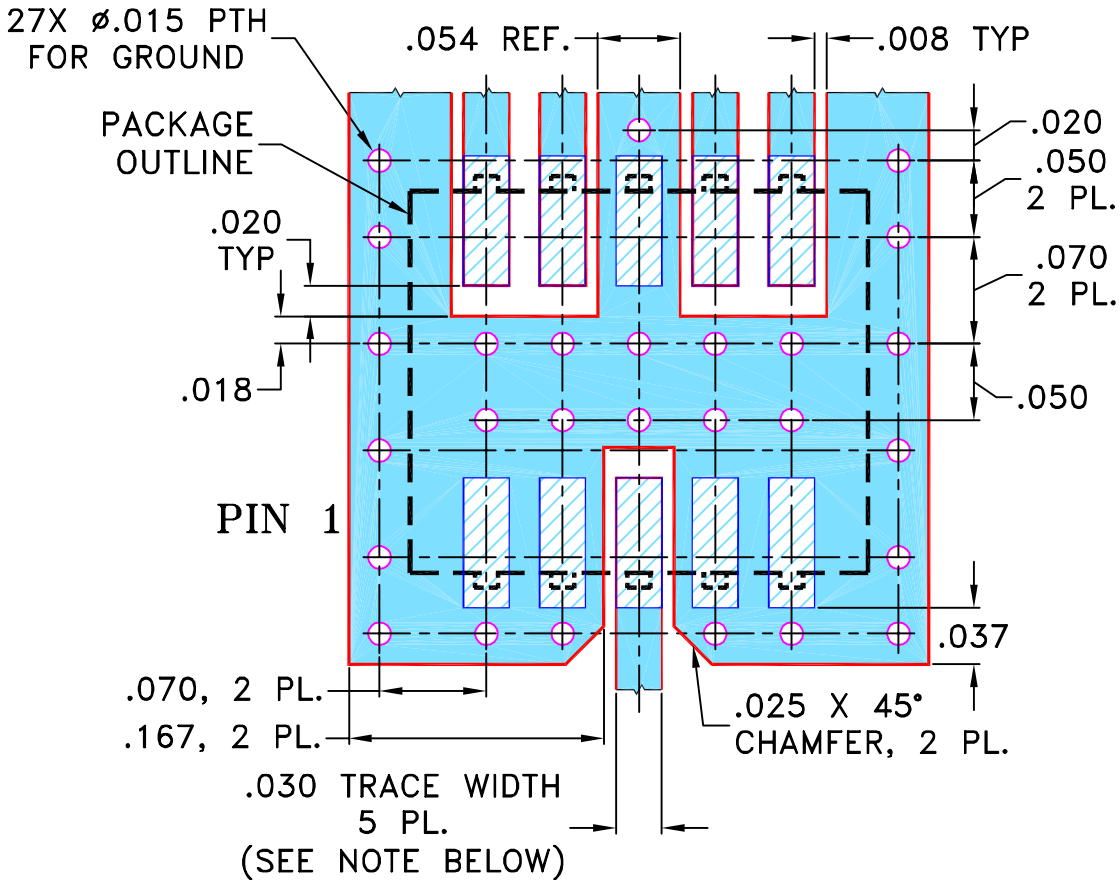
THIRD ANGLE PROJECTION



REVISIONS

| REV | ECN No. | DESCRIPTION | DATE | DR | AUTH |
|-----|---------|--|----------|-----|------|
| OR | M87224 | NEW RELEASE | 05/22/03 | MMG | WP |
| A | M91639 | REMOVED NOTE 2, UPDATED DIMENSIONS | 04/14/04 | AV | DJ |
| B | M102713 | CORRECTED TRACE WIDTH, ADDED "...WITH SMOBC" | 01/16/06 | GF | IL |

SUGGESTED MOUNTING CONFIGURATION
FOR DZ943 CASE STYLE, "ny" PIN CONNECTION.



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS 0.030" ± 0.002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

| UNLESS OTHERWISE SPECIFIED | INITIALS | | DATE |
|--|----------|-----|----------|
| DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS ± 3 PL DECIMALS ± .005 ANGLES ± FRACTIONS ± | DRAWN | MMG | 05/21/03 |
| | CHECKED | AV | 05/22/03 |
| | APPROVED | WP | 05/22/03 |

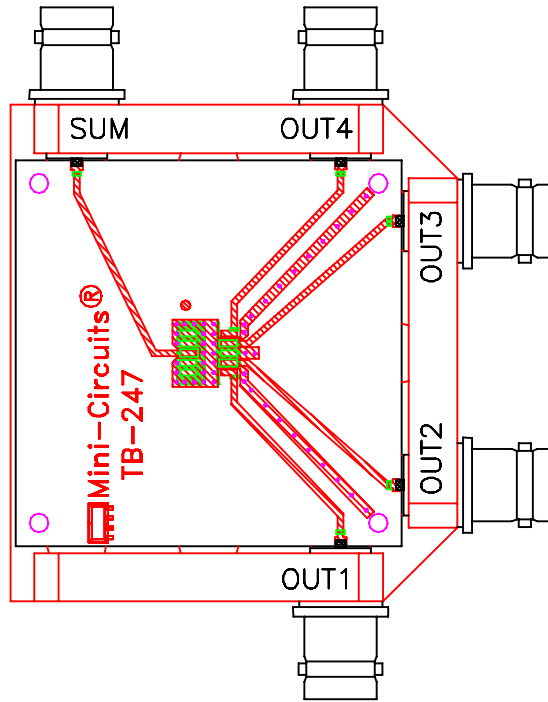
Mini-Circuits® 13 Neptune Avenue
Brooklyn NY 11235

PL, ny, 75, DZ943, SCA, TB-247

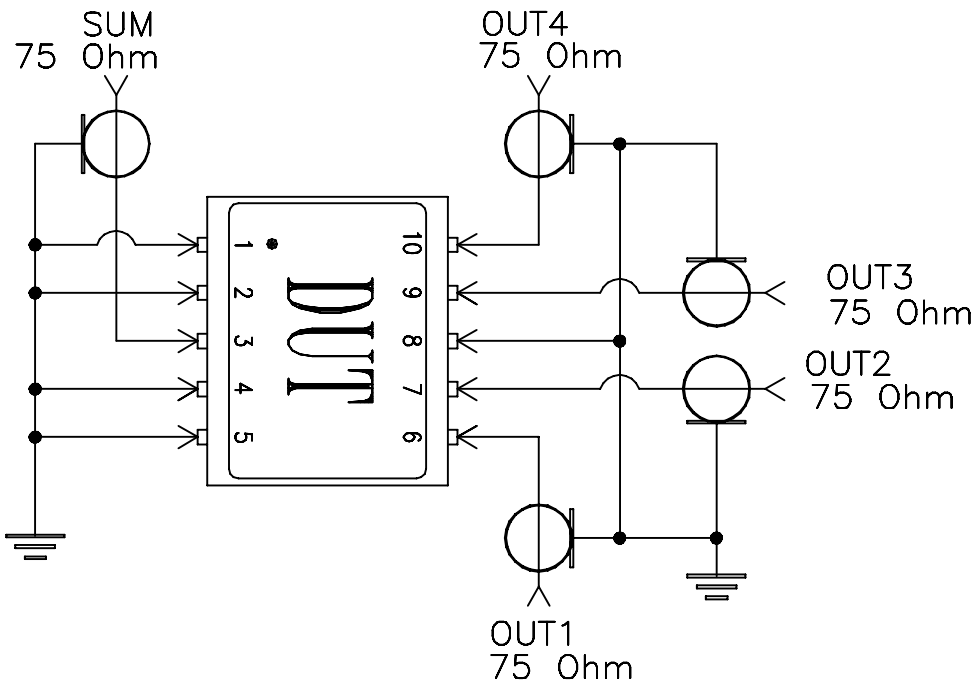
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| SIZE | CODE IDENT | DRAWING NO: | REV: |
|-------|------------|-------------|--------|
| A | 15542 | 98-PL-133 | B |
| FILE: | 98PL133 | SCALE: | 8:1 |
| | | SHEET: | 1 OF 1 |

Evaluation Board and Circuit




TB-247



Schematic Diagram

Notes:

1. BNC Female connectors.
2. PCB Material: Rogers R04350 or equivalent,
Dielectric Constant=3.5, Thickness=.030 inch.

 **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 | -40° to 85°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, 100 cycles | MIL-STD-202, Method 107, Condition A-3, except +100°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 | 50g, 11 ms, 1/2-sine, 18 shocks: 3 each direction, each of 3 axes | MIL-STD-202, Method 213, Condition A |
| Autoclave | 15 psig, 100% RH, 121°C, 96 hours | JESD22-A102-C, Condition C |
| Solderability | 10X Magnification | J-STD-002, Para 4.2.5, Test S, 95% Coverage |
| Solder Reflow Heat | Sn-Pb Eutectic Process: 225°C peak Pb-Free Process: 250°C peak | J-STD-020, Table 4-1, 4-2 and 5-2; Figure 5-1 |
| Marking Resistance to Solvents | Isopropyl alcohol + mineral spirits at 25°C; terpene defluxer at 25°C; distilled water + proylene glycol monomethyl ether + monoethanolamine at 63°C to 70°C | MIL-STD-202, Method 215 |