

Surface Mount Matching Pad

50/75Ω

DC to 3000 MHz

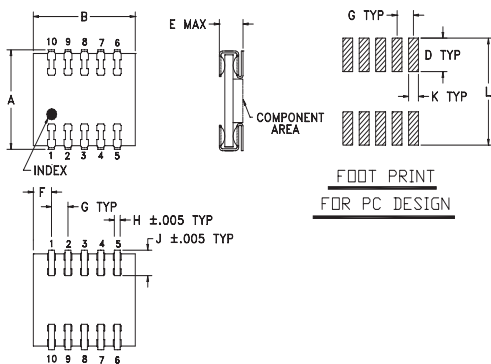
Maximum Ratings

| | |
|---|----------------|
| Operating Temperature | -40°C to 85°C |
| Storage Temperature | -55°C to 100°C |
| RF Input Power | 0.25W |
| Permanent damage may occur if any of these limits are exceeded. | |

Pin Connections

| | |
|--------|------------------|
| 50 OHM | 2 |
| 75 OHM | 6 |
| GROUND | 1,3,4,5,7,8,9,10 |

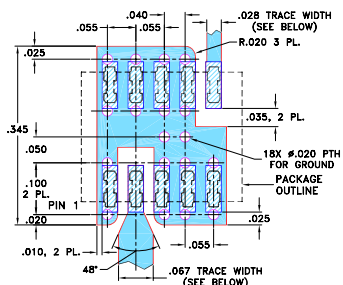
Outline Drawing



Outline Dimensions (inch/mm)

| A | B | C | D | E | F | G | H | J | K | L | wt |
|------|------|----|------|------|------|------|------|------|------|------|-------|
| .27 | .31 | -- | .090 | .080 | .055 | .050 | .018 | .074 | .030 | .290 | grams |
| 6.86 | 7.87 | -- | 2.29 | 2.03 | 1.40 | 1.27 | 0.46 | 1.88 | 0.76 | 7.37 | 0.3 |

Demo Board MCL P/N: TB-25 Suggested PCB Layout (PL-211)

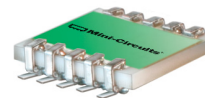


- NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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

ALMP-5075+ ALMP-5075



CASE STYLE: CB518

+RoHS Compliant

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

Features

- excellent flatness, ±0.1 dB typ.
- excellent VSWR, 1.2:1 typ.
- wideband coverage, DC to 3000 MHz
- aqueous washable
- low cost

Applications

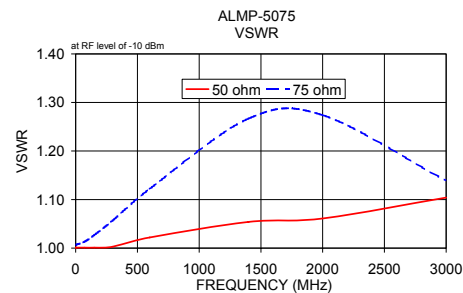
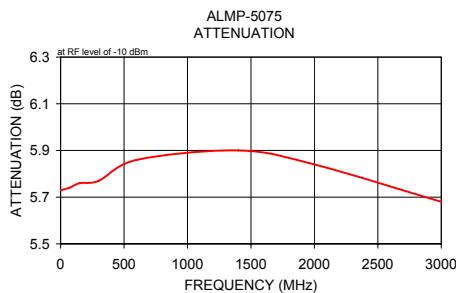
- 50 to 75 OHM wideband impedance matching

Electrical Specifications

| FREQ. (MHz) | ATTENUATION (dB) Flatness Max. | | | VSWR (:1) Max. | | | POWER (W) | |
|-------------|-----------------------------------|------------|--------------|-------------------|------------|--------------|---------------|---------------|
| | Nom. | DC-100 MHz | 100-1000 MHz | 1000-3000 MHz | DC-100 MHz | 100-1000 MHz | | 1000-3000 MHz |
| $f_L - f_U$ | Nom. | DC-100 MHz | 100-1000 MHz | 1000-3000 MHz | DC-100 MHz | 100-1000 MHz | 1000-3000 MHz | 0.25 |
| DC-3000 | 5.7±0.2 | 0.2 | 0.4 | 0.4 | 1.06 | 1.4 | 1.45 | 0.25 |

Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) | |
|-----------------|------------------|-----------|------|
| | | 50 Ω | 75 Ω |
| 0.03 | 5.73 | 1.00 | 1.01 |
| 0.10 | 5.73 | 1.00 | 1.01 |
| 1.00 | 5.73 | 1.00 | 1.01 |
| 70.00 | 5.74 | 1.00 | 1.01 |
| 150.00 | 5.76 | 1.00 | 1.03 |
| 300.00 | 5.77 | 1.00 | 1.06 |
| 600.00 | 5.86 | 1.02 | 1.12 |
| 1400.00 | 5.90 | 1.05 | 1.27 |
| 2000.00 | 5.84 | 1.06 | 1.27 |
| 3000.00 | 5.68 | 1.10 | 1.14 |



electrical schematic

