

Surface Mount Matching Pad

50/75Ω

DC to 3000 MHz

ALMP-5075+ ALMP-5075



Generic photo used for illustration purposes only

CASE STYLE: CB518

+RoHS Compliant

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

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

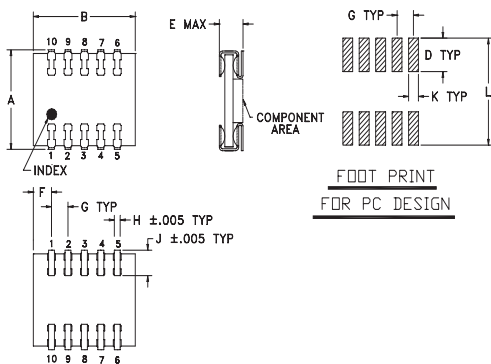
Features

- 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

Outline Drawing



Outline Dimensions (inch/mm)

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

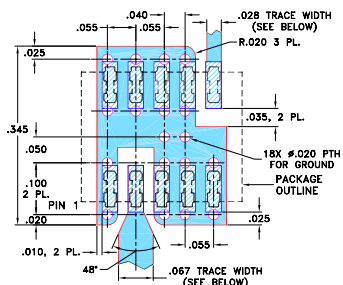
Electrical Specifications

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
$f_L - f_U$								
DC-3000	5.7 \pm 0.2	0.2	0.4	0.4	1.06	1.4	1.45	0.25

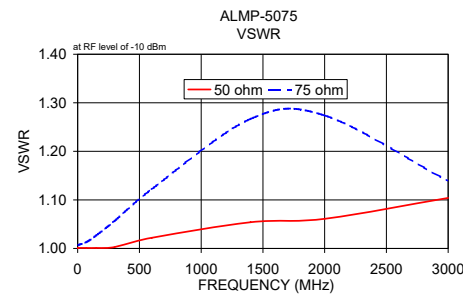
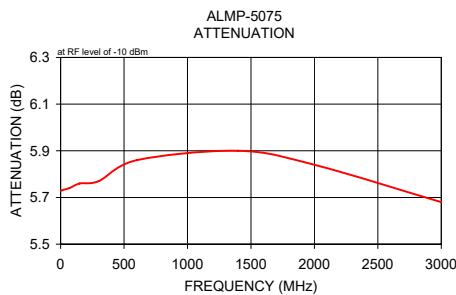
Typical Performance Data

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

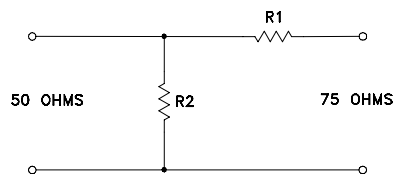
Demo Board MCL P/N: TB-25 Suggested PCB Layout (PL-211)



- NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS $.030 \pm .002$; 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



Electrical Schematic



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. C
M151107
ED-7340/2
ALMP-5075
DJ/TD/CP
200407