Surface Mount

Matching Pad

ALMP-5075+
ALMP-5075

50/75Ω DC to 3000 MHz

CASE STYLE: CB518
PRICE: $7.95 ea. QTY. (1-9)

+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

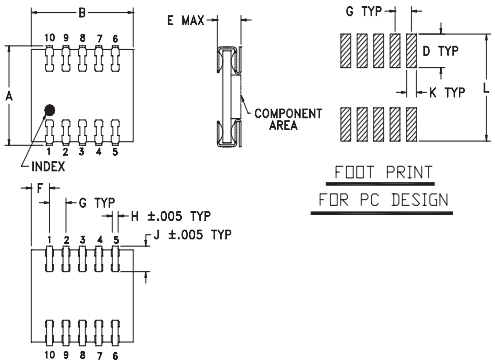
Features

- 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

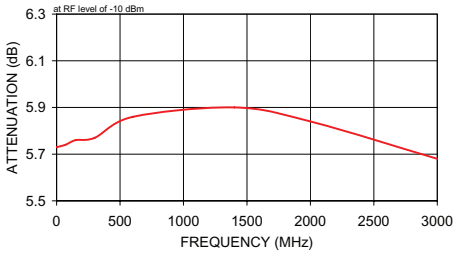
Electrical Specifications

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

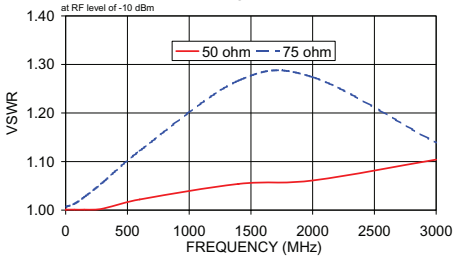
Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1) 50 Ω	VSWR (:1) 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

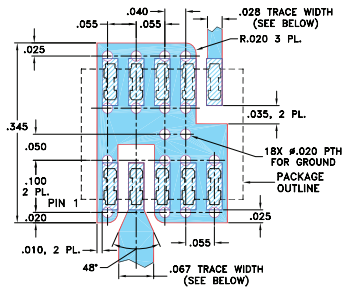
ALMP-5075
ATTENUATION



ALMP-5075
VSWR



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

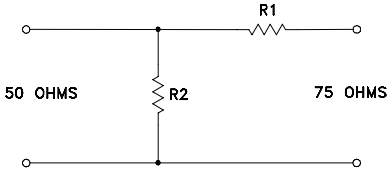


NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

electrical schematic



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.
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