Surface Mount Directional Coupler
ADC-15-4

50Ω 5 to 1000 MHz

Maximum Ratings
Operating Temperature -40°C to 85°C
Storage Temperature -55°C to 100°C
Permanent damage may occur if any of these limits are exceeded.

Pin Connections
INPUT 1
OUTPUT 6
COUPLED 3
GROUND 2
50Ω TERM EXTERNAL 4
ISOLATE (DO NOT USE) 5

Outline Dimensions (inch)
A 2.72 B .310 C .220 D .100 E .112 F .056 G .100
H 6.91 J 3.87 K 5.69 L 2.54 M 1.40 N 2.54
Wt .066 grams

Demo Board MCL P/N: TB-05
Suggested PCB Layout (PL-095)

Outline Drawing

PCB Land Pattern

Suggested Layout. Tolerance to be within ±.002

Outline Specifications

ADC-15-4+ MAINLINE LOSS

5-1000 15.5±0.5 ±0.5 0.6 1.0 0.6 1.0 0.8 1.2

ADC-15-4+ COUPLING & DIRECTIVITY

5-1000 15.5±0.5 ±0.5 23 20 24 20 28 17 1.20

L = 5-50 MHz  M = 50-500 MHz  U = 500-1000 MHz
1. Mainline loss includes theoretical power loss at coupled port.

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.
C. 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

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