9 dB Coupler
5 - 1225 MHz

Features
- 9 dB Coupling Ratio
- Surface Mount Package
- Available on Tape & Reel
- High Isolation from 100 - 700 MHz
- Excellent Temperature Stability
- RoHS Compliant and Pb Free
- 260°C Reflow Compatible

Description
The MACP-011050 is a 9 dB coupler in a surface mount package.

Ideally suited for CATV, Full Duplex and DOCSIS 3.1 applications.

Ordering Information
1. Reference Application Note M513 for reel size information.
2. All sample boards include 5 loose parts.

MACP-011050
900 piece reel

MACP-011050-TB
Sample Board

Absolute Maximum Ratings
- Input Power: 2 W
- DC Current: 500 mA
- Operating Temperature: -40°C to +85°C

3. MACOM recommends connecting unused package pins to ground.

4. Exceeding any one or combination of these limits may cause permanent damage to this device.
5. MACOM does not recommend sustained operation near these survivability limits.

DC-0018034
Typical Performance Curves

6. Full temperature plots available on request.
MACP-011050

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Application Schematic

Outline Drawing

Recommended Board Layout

Carrier Tape Orientation

Tape & Reel Information

Parameter | Units | Value
---|---|---
Qty per reel | — | 900
Reel Size | mm | 330
Tape Width | mm | 16.0
Pitch | mm | 12.0
Orientation | — | F33

Reference Application Note ANI-019 for orientation

7. Recommended PCB layout shown above uses 1.6 mm FR4, Grounded coplanar wave guide, transmission line width 0.70 mm and gap 0.57 mm.

8. Dimensions in mm.
9. Tolerance: ±0.2 mm unless otherwise noted.
10. Model number and lot code printed on reel.

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