MACP-009730-C60370



E-Series 6dB Coupler 5 to 1200 MHz

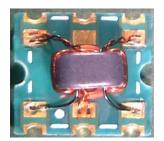
M/A-COM Products Rev. V1

Features

- Surface mount
- 6dB Coupler
- 260°C reflow compatible
- RoHS* compliant, lead-free
- Available on tape and reel.

Description

M/A Com's MACP-009730-C60370 is a 6dB coupler in a low cost, surface mount package. Excellent coupling flatness. Ideally suited for broadband CATV applications.

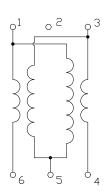


Pin configuration

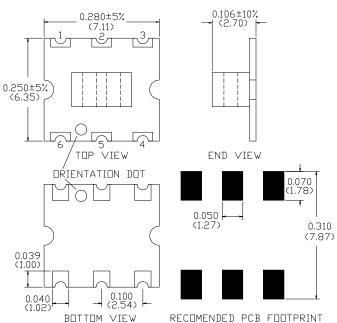
Pin no.	Function		
1	Output		
2	Ground (Not used)		
3	Isolated (75Ω termination)		
4	Coupled		
5	Ground		
6	Input		

Note: Reference Application Note M513 for reel size information.

Schematic



Case style: SM-55



Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010, unless otherwise stated

Ordering information

Part number	Description		
MACP-009730-C60370	900 piece reel		
MACP-009730-C603TB	Customer Test Board		

^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

North America Tel: 800.366.2266 • Europe Tel: +353.21.244.6400

• India Tel: +91.80.4155721

• China Tel: +86.21.2407.1588

Visit www.macomtech.com for additional data sheets and product information.

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Electrical Specifications: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

Parameter	Test Conditions	Units	Min	Тур	Max
Coupling	5 - 1200 MHz	dB	-	5.8	±0.5
Main Line Loss	5 - 400 MHz 400 - 870 MHz 870 - 1000 MHz 1000 - 1200MHz	dB dB dB dB	- - - -	2.3 2.5 2.9 3.3	2.5 3.0 3.3 4.0
Directivity	5 - 50 MHz 50 - 600 MHz 600 - 1000 MHz	dB dB dB	11 7.0 3.0	12 10 7.2	- - -
Input Return Loss	5 - 500MHz 500 - 1000 MHz	dB dB	15 11	17 17	-
Output Return Loss	5 - 500 MHz 500 - 1000 MHz	dB dB	19 13	23 18	-
Coupling Return Loss	5 - 500 MHz 500 - 1000 MHz	dB dB	12 9.0	14 12	-

Absolute Maximum Ratings 1,2

Parameter	Absolute maximum		
RF power	250mW		
DC current	30mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-40°C to +85°C		

^{1.} Exceeding any one or combination of these limits may cause permanent damage to this device.

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^{2.} M/A-COM does not recommend sustained operation near these survivability limits.

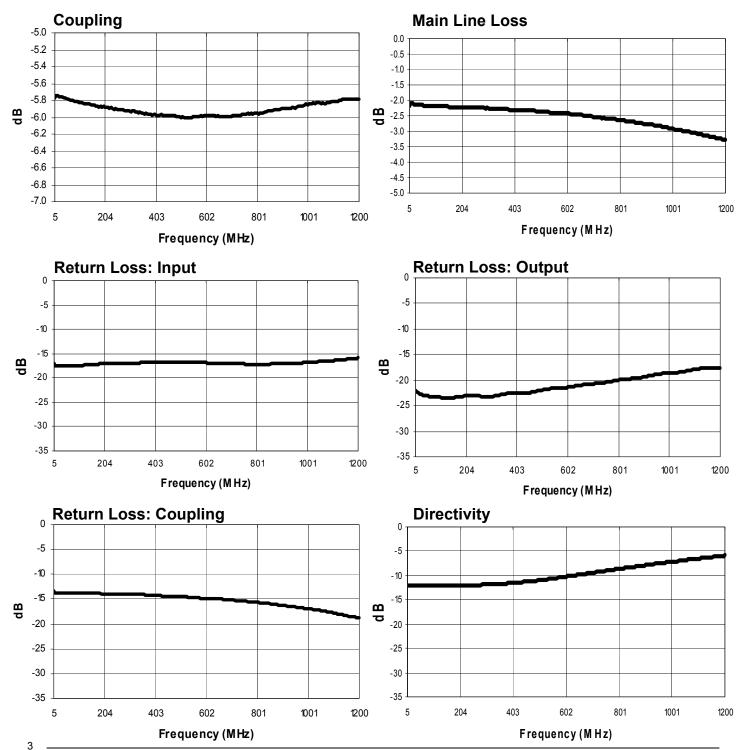
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Typical Performance Curves: $T_A = 25$ °C, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm



ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available.

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