MACP-009730-C60370

E-Series 6dB Coupler
5 to 1200 MHz

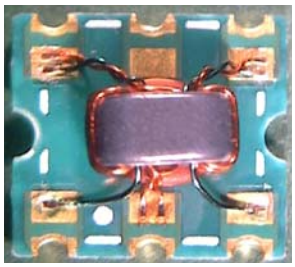
M/A-COM Products
Rev. V1

Features

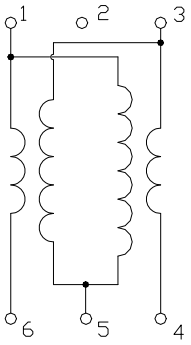
- Surface mount
- 6dB Coupler
- 260°C reflow compatible
- RoHS* compliant, lead-free
- Available on tape and reel.

Description

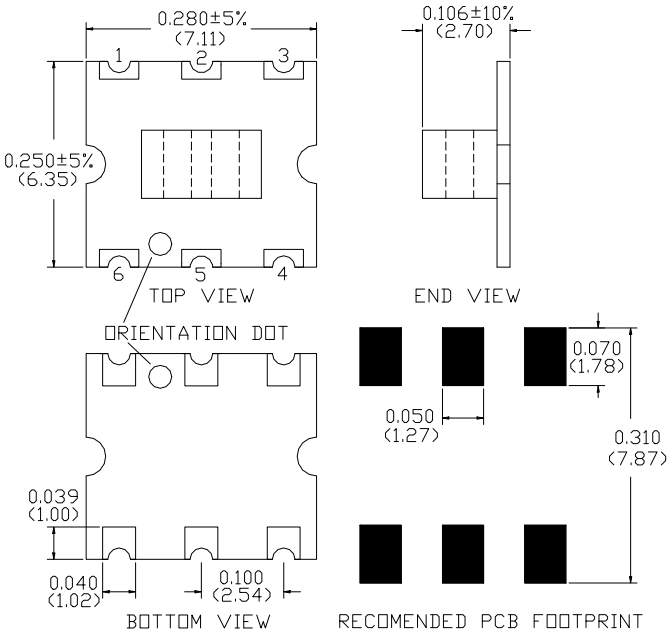
M/A Com's MACP-009730-C60370 is a 6dB coupler in a low cost, surface mount package. Excellent coupling flatness. Ideally suited for broadband CATV applications.



Schematic



Case style: SM-55



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

Pin configuration

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

Ordering information

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

Note: Reference Application Note **M513** for reel size information.

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

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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.

• **North America** Tel: 800.366.2266 • **Europe** Tel: +353.21.244.6400
• **India** Tel: +91.80.4155721 • **China** Tel: +86.21.2407.1588
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Electrical Specifications: T_A = 25°C, 0dBm, Z_0 = 75Ω, P_{in} = 0dBm

Parameter	Test Conditions	Units	Min	Typ	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.
2. M/A-COM does not recommend sustained operation near these survivability limits.

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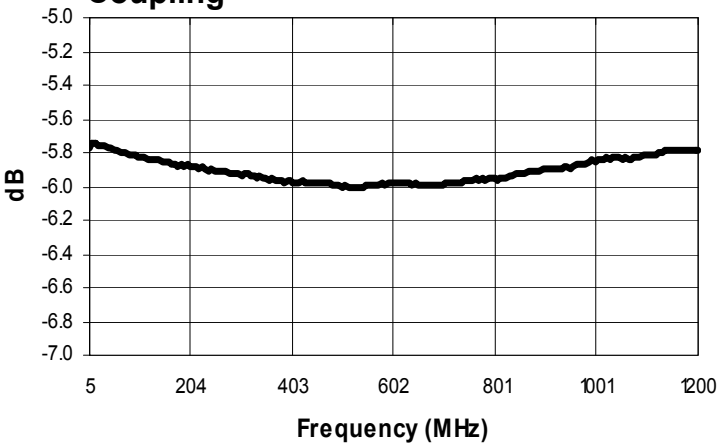
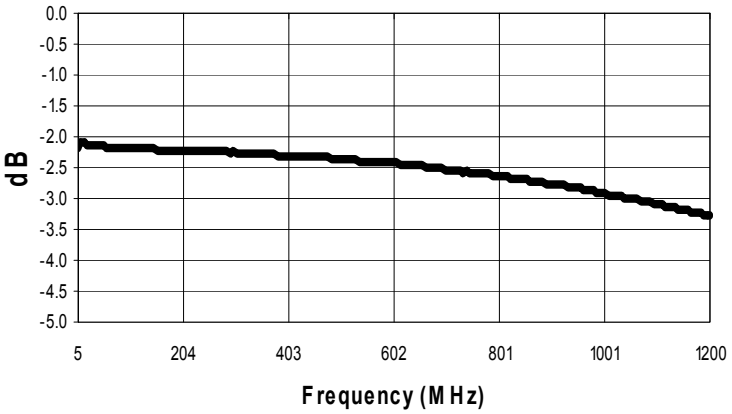
Typical Performance Curves: T_A = 25°C, 0dBm, Z_0 = 75Ω, P_{in} = 0dBm

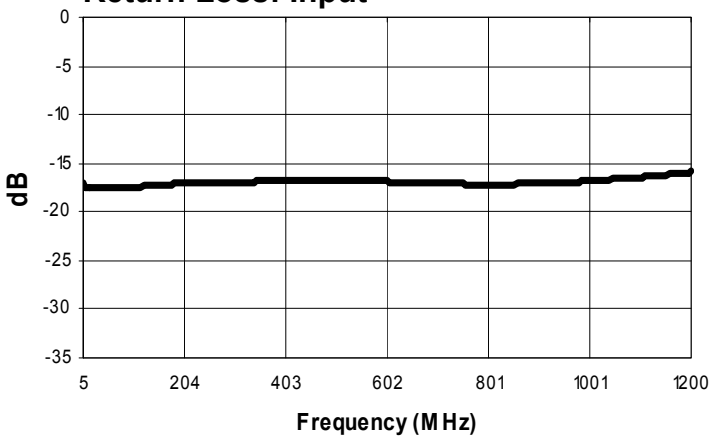
Coupling



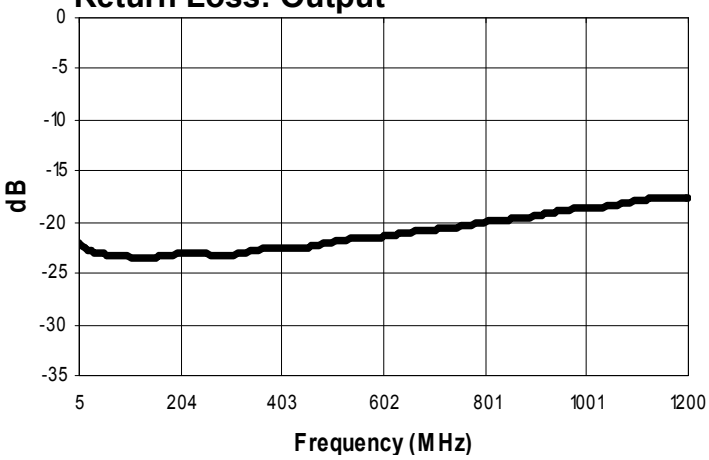
Main Line Loss



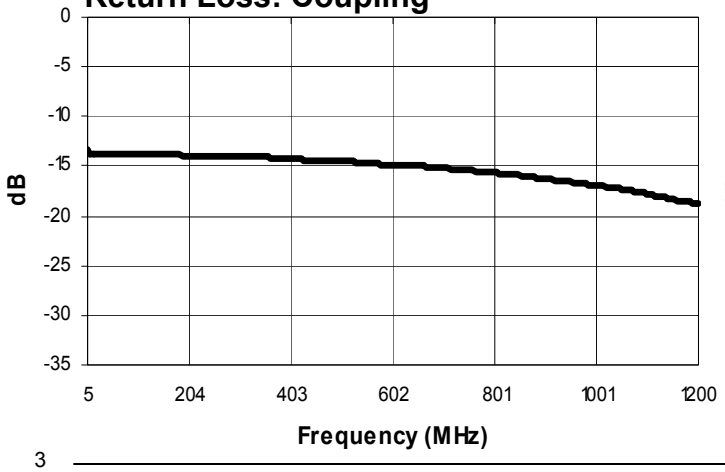
Return Loss: Input



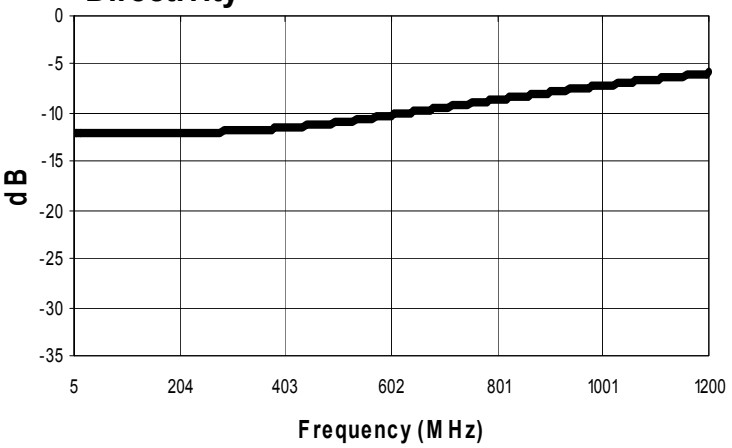
Return Loss: Output



Return Loss: Coupling



Directivity



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