



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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MACP-009730-C60370



E-Series 6dB Coupler
5 to 1200 MHz

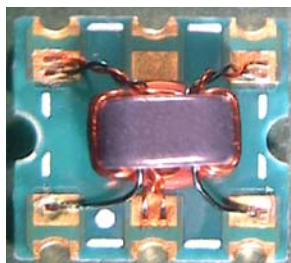
M/A-COM Products
Rev. V1

Features

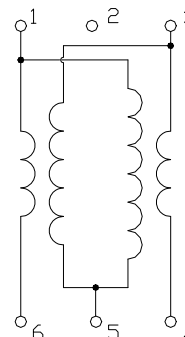
- Surface mount
- 6dB Coupler
- 260°C reflow compatible
- RoHS* compliant, lead-free
- Available on tape and reel.

Description

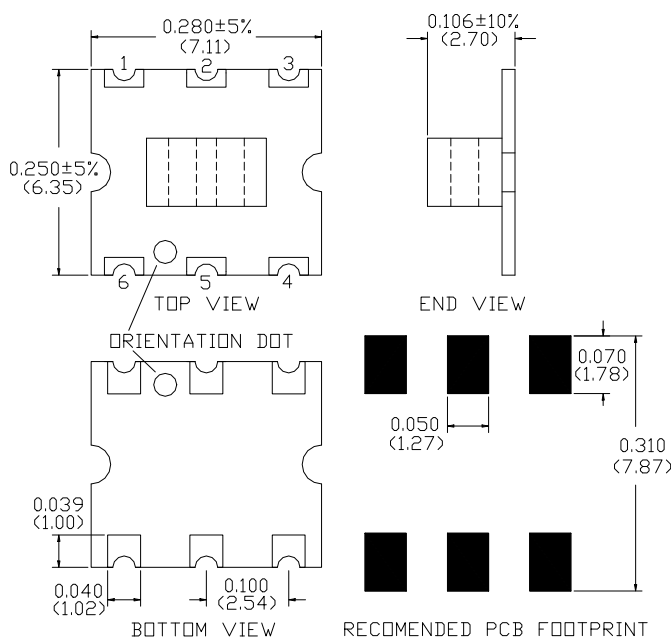
M/A Com's MACP-009730-C60370 is a 6dB coupler in a low cost, surface mount package. Excellent coupling flatness. Ideally suited for broadband CATV applications.



Schematic



Case style: SM-55



Pin configuration

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

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

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.

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

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

Absolute Maximum Ratings ^{1,2}

Parameter	Absolute maximum
RF power	250mW
DC current	30mA
Operating Temperature	-40°C to $+85^\circ\text{C}$
Storage Temperature	-40°C to $+85^\circ\text{C}$

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.

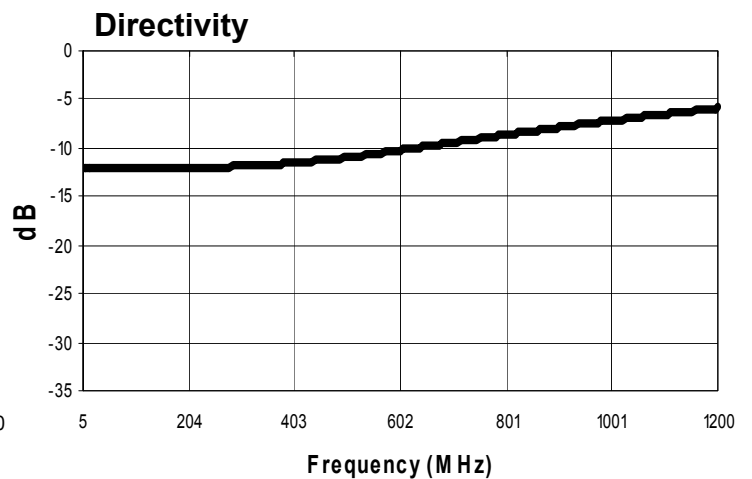
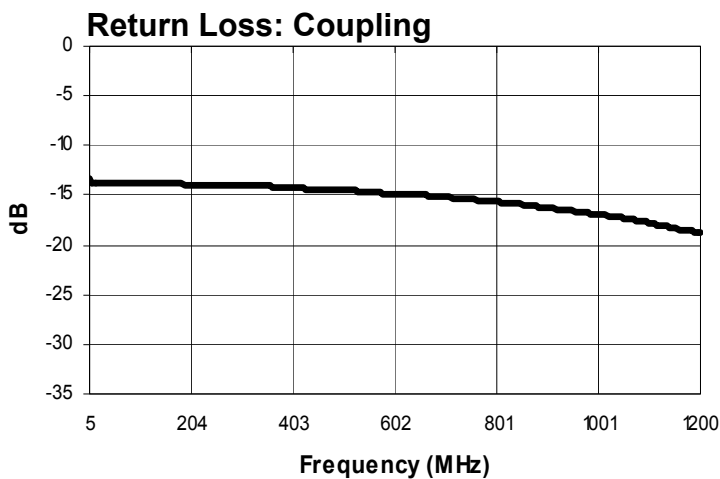
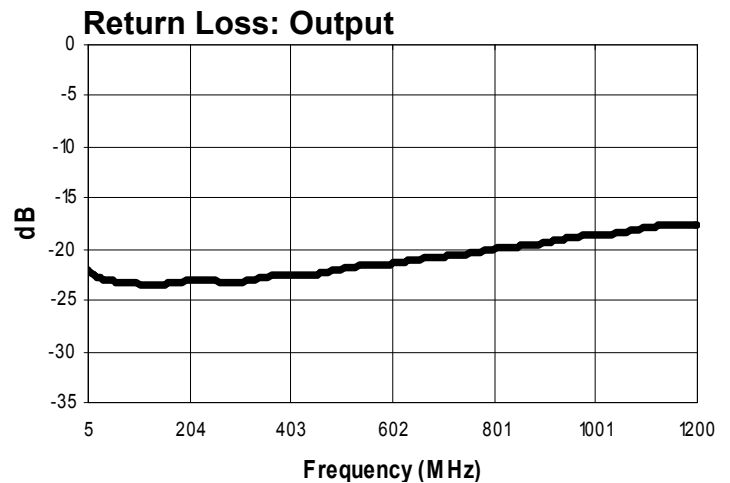
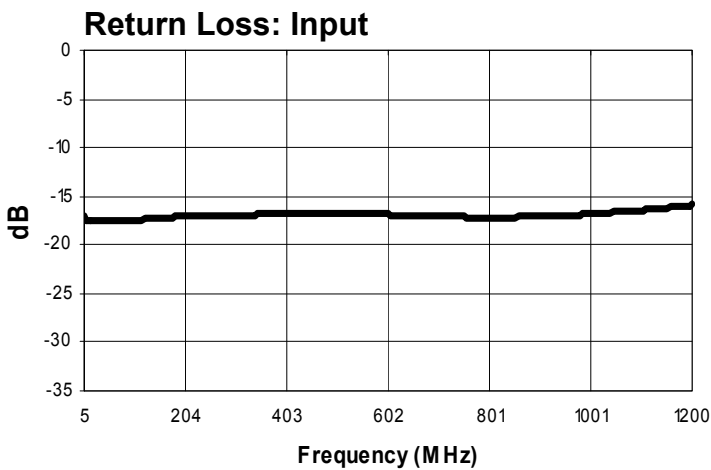
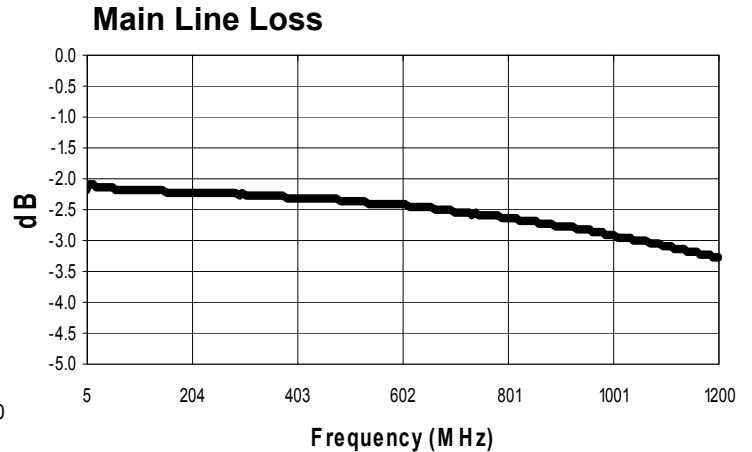
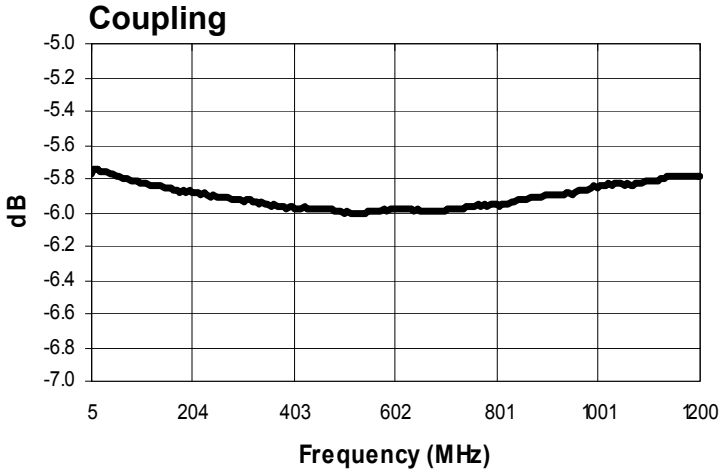
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Typical Performance Curves: $T_A = 25^\circ\text{C}$, 0dBm , $Z_0 = 75\Omega$, $P_{in} = 0\text{dBm}$



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