

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MACP-009596-CA0160



E-Series Coupler M/A-COM Products 5 to 1000 MHz Rev. V1

Features

- Surface mount
- 10dB Coupler
- 260°C reflow compatible
- RoHS* compliant, lead-free
- Available on tape and reel.

Description

M/A Com's MACP-009596-CA0160 is a 10dB coupler in a low cost, surface mount package. Excellent coupling flatness. Ideally suited for broadband CATV applications.

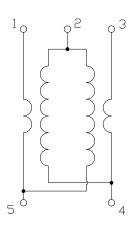


Pin configuration

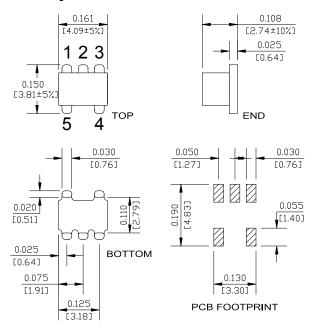
Pin no.	Function	
1	Coupled	
2	Ground	
3	Input	
4	Output	
5	External 75 Ω	

Note: Reference Application Note M513 for reel size information.

Schematic



Case style: SM-22



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

Ordering information

Part number	Description		
MACP-009596-CA0160	2000 piece reel		
MACP-009596-CA01TB	Customer Test Board		

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

• India Tel: +91.80.4155721

• China Tel: +86.21.2407.1588

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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 - 1000 MHz	dB	-	10	±0.5
Main Line Loss	5 - 50 MHz 50 - 500 MHz 500 - 1000 MHz	dB dB dB	- - -	1.1 1.3 1.4	1.4 1.5 1.7
Directivity	5 - 50 MHz 50 - 600 MHz 600 - 1000 MHz	dB dB dB	20 16 14	22 20 18	1 1 1
Input Return Loss	5 - 1000 MHz	dB	12	18	-
Output Return Loss	5 - 1000 MHz	dB	12	23	-
Coupling Return Loss	5 - 1000 MHz	dB	12	16	-

Absolute Maximum Ratings 1,2

Parameter	Absolute maximum		
RF power	250mW		
DC current	30mA		
Operating Temperature	-20°C to +80°C		
Storage Temperature	-20°C to +80°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: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

