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.

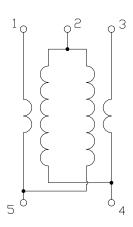


Pin configuration

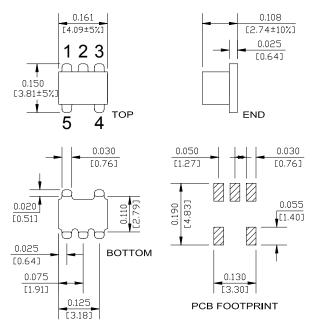
Pin no.	Function	
1	Coupled	
2	Ground	
3	Input	
4	Output	
5	External 75 Ω	

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.

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- 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.

M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make

MACP-009596-CA0160



E-Series Coupler 5 to 1000 MHz

M/A-COM Products Rev. V1

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

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	- - -
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.

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

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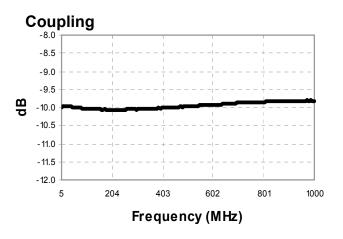
MACP-009596-CA0160

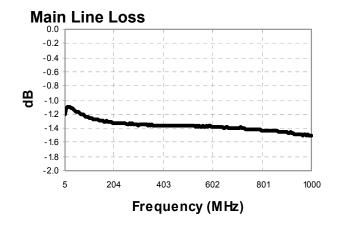


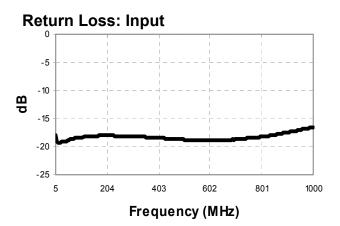
E-Series Coupler 5 to 1000 MHz

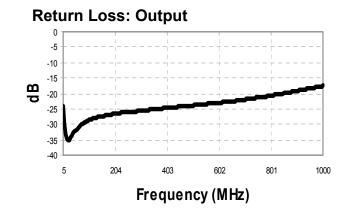
M/A-COM Products Rev. V1

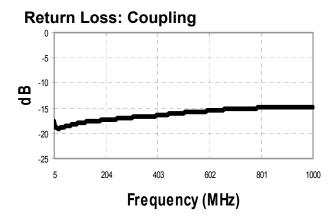
Typical Performance Curves: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm



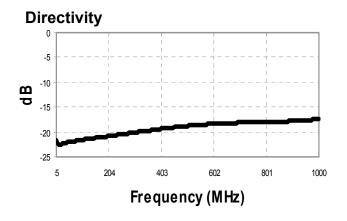








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