MACP-009598-C80160

E-Series Coupler 5 to 900 MHz



- Surface mount
- 8.5dB Coupler
- 260°C reflow compatible
- RoHS* compliant, lead-free
- Available on tape and reel

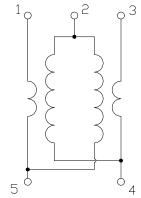
Description

M/A Com's MACP-009598-C80160 is an 8.5dB coupler in a low cost, surface mount package. Ideally suited for broadband CATV applications.

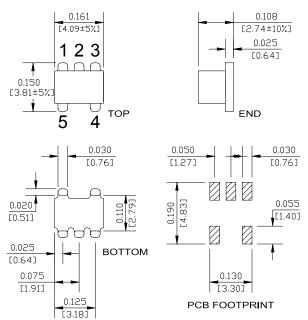


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Schematic



Case style: SM-22



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

Ordering information

Part number	Description		
MACP-009598-C80160	2000 piece reel		
MACP-009598-C801TB	Customer Test Board		

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.

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

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PRELIMINARY: Data Sheets contain information regarding a product MA-COM Technical 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. Commitment to produce in volume is not guaranteed.

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- Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300 •
- Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298 Visit www.macom.com for additional data sheets and product information.

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M/A-COM Products Rev. V1

MACP-009598-C80160

Technology Solutions

E-Series Coupler 5 to 900 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 - 900 MHz	dB	-	8.5	±0.3
Main Line Loss	5 - 50 MHz 50 - 450 MHz 450 - 900 MHz	dB dB dB		1.6 1.9 2.0	2.2 2.0 2.2
Isolation	5 - 900 MHz	dB	22	26	-
Directivity	5 - 50 MHz 450 - 900 MHz	dB dB	15 13	17.9 16.4	
Return Loss Input (P3)	5 - 900 MHz	dB	13	15	-
Return Loss Coupled (P1)	5 - 900 MHz	dB	13	15	-
Return Loss Output (P4)	5 - 900 MHz	dB	16	23	-
Return Loss Isolation (P5)	5 - 900 MHz	dB	15	21	-

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.

M/A-COM does not recommend sustained operation near these survivability limits.

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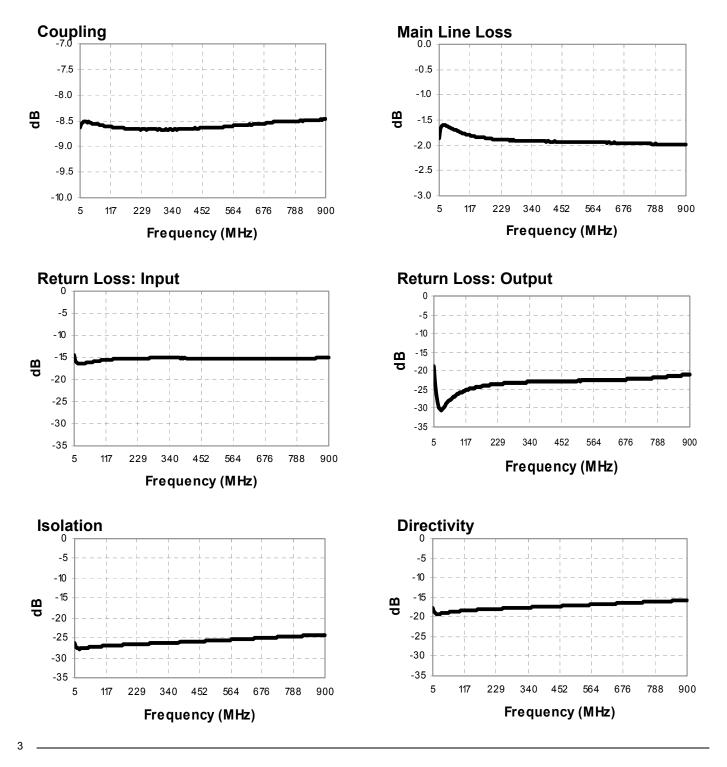
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E-Series Coupler 5 to 900 MHz



Rev. V1

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



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