

## RoHS Compliant



E-Series Coupler 350 – 450 MHz

MACP-007984-MDC201

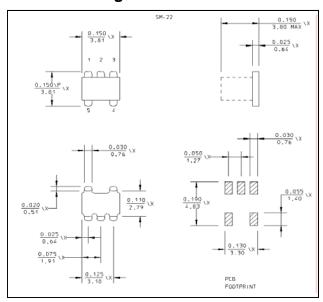
#### **Features**

- Coupling 20 dB Typical
- Surface Mount
- · Tape and reel packaging available
- 260°C Reflow Compatible
- RoHS\* compliant version of the EMDC-20-1

### **Description**

M/A-COM's MACP-007984-MDC201 is a RoHS Compliant broadband coupler in a low cost, surface mount package. It offers low loss, good isolation, good input/output matching and exceptional coupling repeatability. MACP-007984-MDC201 is available in an SM-22 surface mount package and is designed to be utilized in both standard reflow and high temperature soldering reflow profiles. Parts are packaged in tape & reel.

#### SM - 22 Package



Electrical Specifications:  $T_A = 25^{\circ}C$ ,  $Z_0 = 50\Omega^{1}$ 

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	350 - 450	MHz	_	_	_
Coupling	F <sub>L</sub> —f <sub>U</sub>	350 - 450	dB	_	_	20 ± 1.0
Main Line Loss	F <sub>L</sub> —f <sub>U</sub>	350 - 450	dB	_	0.25	0.5
Directivity	F <sub>L</sub> —f <sub>U</sub>	350 - 450	dB	14	18	_
Return Loss	F <sub>L</sub> —f <sub>U</sub>	350 - 450	Ratio	1.5:1	1.1:1	_

## Absolute Maximum Ratings 1

Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-55°C to +125°C		

<sup>1.</sup> Operation of this device above any one of these parameters may cause permanent damage.

### **Ordering Information**

Part Number	Package		
MACP-007984-MDC201	Tape and Reel (2000 piece Reel)		

This PRELIMINARY Data Sheet contains information regarding a product M/A-COM has under development. Performance is based on measured results and target specifications. Commitment to produce in volume is not guaranteed.

<sup>\*</sup> Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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<sup>•</sup> Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298



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## **Pin Configuration**

Pin No.	Function	
1	Coupled	
2	Ground	
3	Input	
4	Output	
5	External 50 Ohms	

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