

**E-Series Coupler  
350 – 450 MHz**

**MACP-007984-MDC201  
V1P**

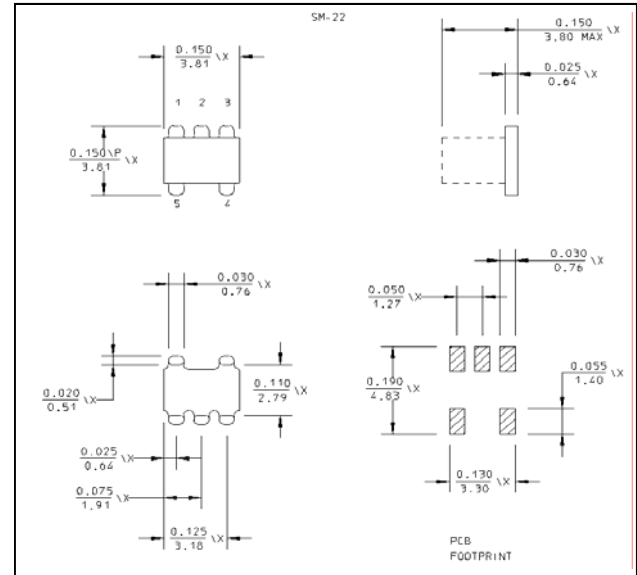
**Features**

- 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:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 50\Omega$ <sup>1</sup>**

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	350 - 450	MHz	—	—	—
Coupling	$F_L-f_U$	350 - 450	dB	—	—	$20 \pm 1.0$
Main Line Loss	$F_L-f_U$	350 - 450	dB	—	0.25	0.5
Directivity	$F_L-f_U$	350 - 450	dB	14	18	—
Return Loss	$F_L-f_U$	350 - 450	Ratio	1.5:1	1.1:1	—

**Absolute Maximum Ratings<sup>1</sup>**

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

1. 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.**

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

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V1P**Pin Configuration**

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