

### E-Series Coupler 5 – 1000 MHz

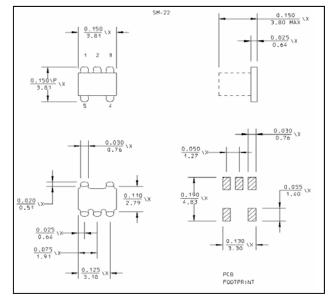
#### Features

- Coupling 10 dB Typical
- Surface Mount
- Tape and reel packaging available

#### Description

M/A-COM's EMDC-10-1 is a broadband coupler in a low cost, surface mount package. It offers low loss, good isolation, good input/output matching and exceptional coupling repeatability. Ideally suited for high volume cellular and wireless applications. 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	_	5 - 1000	MHz	—	-	-
Coupling	F <sub>L</sub> —f <sub>U</sub>	5 - 1000	dB	_	-	10 ±0.9
Main Line Loss	F <sub>L</sub> —f <sub>U</sub>	5 - 50 50 - 500 500 - 1000	dB dB dB		1.1 1.0 1.2	1.6 1.4 2.3
Directivity	F <sub>L</sub> —f <sub>U</sub>	5 - 50 50 - 500 500 - 1000	dB dB dB	17 15 10	20 19 17	
Return Loss	F <sub>L</sub> —f <sub>U</sub>	5 - 1000	dB	14	17	_

### 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.

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### **Ordering Information**

Part Number	Package	
EMDC-10-1TR	Tape and Reel (2000 piece Reel)	

• North America Tel: 800.366.2266 / Fax: 978.366.2266

- 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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EMDC-10-1

**V**4



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EMDC-10-1 V4

# **Pin Configuration**

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

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