



E-Series Coupler 5 – 1000 MHz

EMDC-10-1 V4

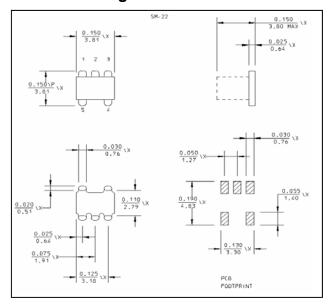
#### **Features**

- · 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	1.1 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		

Operation of this device above any one of these parameters may cause permanent damage.

## **Ordering Information**

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

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# **Pin Configuration**

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

information.