E-Series Coupler
5 – 1000 MHz

EMDC-10-1
V4

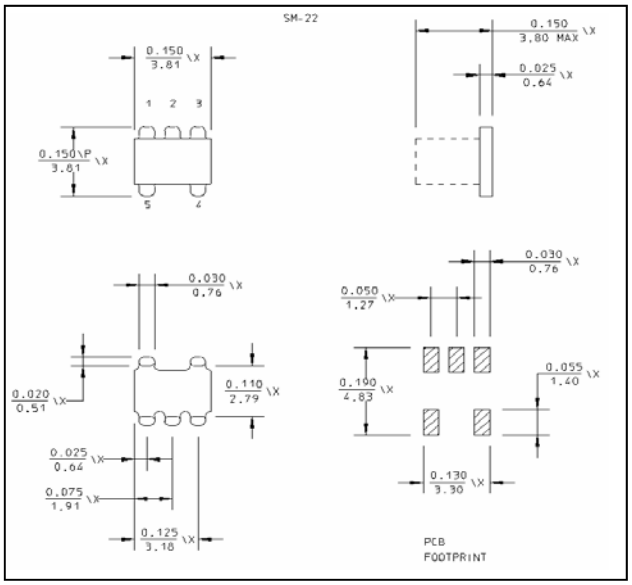
Features

- 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°C, Z_0 = 50Ω [1]

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	5 - 1000	MHz	—	—	—
Coupling	F_L—f_U	5 - 1000	dB	—	—	10 ±0.9
Main Line Loss	F_L—f_U	5 - 50 50 - 500 500 - 1000	dB dB dB	— — —	1.1 1.0 1.2	1.6 1.4 2.3
Directivity	F_L—f_U	5 - 50 50 - 500 500 - 1000	dB dB dB	17 15 10	20 19 17	— — —
Return Loss	F_L—f_U	5 - 1000	dB	14	17	—

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

1. 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

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