

E-Series Coupler 350 – 450 MHz

Rev. V4

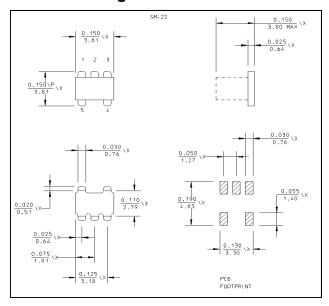
Features

- Coupling 20 dB Typical
- Surface Mount
- · Tape and reel packaging available

Description

M/A-COM's EMDC-20-1 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	_	350 - 450	MHz	_	_	_
Coupling	F _L —f _U	350 - 450	dB	_	_	20 ± 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 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

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

Ordering Information

Part Number	Package
EMDC-20-1TR	Tape and Reel (2000 piece Reel)

EMDC-20-1



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Pin Configuration

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