

E-Series Coupler
350 – 450 MHz

EMDC-20-1
V4

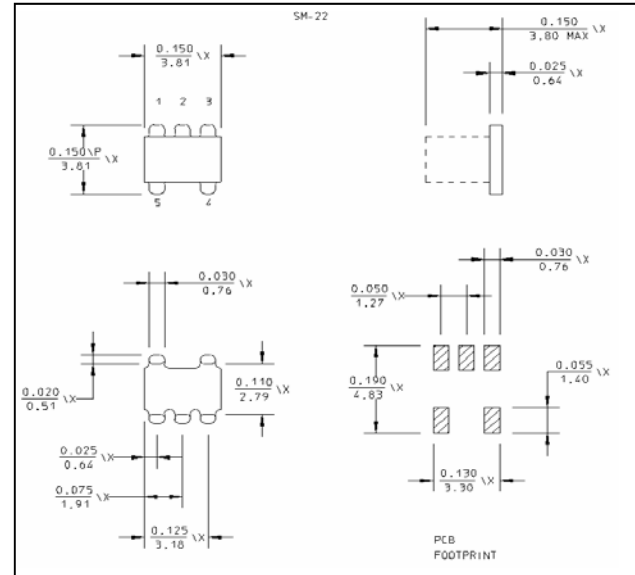
Features

- 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: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$ ¹

Parameter	Test Conditions	Frequency	Units	Min	Typ	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 Ratings¹

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-20-1TR	Tape and Reel (2000 piece Reel)

Pin Configuration

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