

EMDC-16-1

E-Series Coupler
6 – 600 MHz

Rev. V4

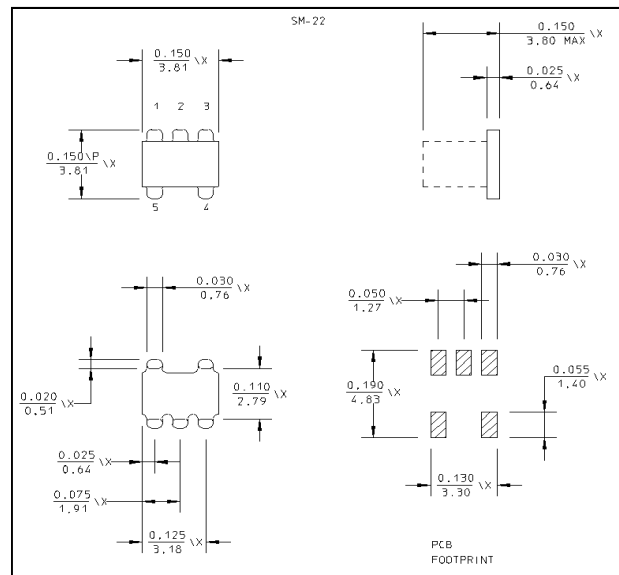
Features

- Coupling 16 dB Typical
- Surface Mount
- Tape and reel packaging available

Description

M/A-COM's EMDC-16-1 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	—	6 - 600	MHz	—	—	—
Coupling	$F_L - f_U$	6 - 600	dB	—	—	16 \pm 0.8
Main Line Loss	$F_L - f_U$	6 - 600	dB	—	0.6	0.9
Directivity	$F_L - f_U$	6 - 60	dB	20	30	—
		60 - 300	dB	20	27	—
		300 - 600	dB	10	21	—

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-16-1TR	Tape and Reel (2000 piece Reel)

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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Pin Configuration

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