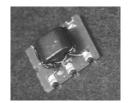
E-Series 75 Ohm Coupler 5 - 862 MHz



Features

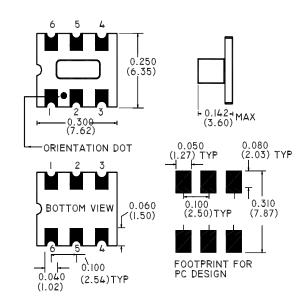
- Coupling 16dB Typical
- Surface Mount
- Low Profile
- Tape and Reel Packaging available



Description

M/A-COM's EMDC-16-8-75 is a high performance 75 Ohm Coupler, in a SM-101 low cost, surface mount package. The EMDC-16-8-75 is designed for use in high volume CATV applications. Typical applications include Set-top Boxes, Network Interface Units, Broadband Amplifiers and Headend

SM-101 Package



Electrical Specifications @25°C, $Z_0 = 75$ Ohms

Frequency Rang	e 5 - 862 MHz	Units	Nominal	Typical	Minimum	Maximum
Mainline Loss						
	5 - 862 MHz	dB	_	1.05		1.25
Coupling						
	5 - 44 MHz	dB	16	_	_	± 0.5
	45 MHz	dB	16	_	_	± 0.2
	862 MHz	dB	15.6	_	_	± 0.3
Coupling Flatness	5 - 862 MHz	dB		_		±0.3
Isolation						
	5 - 862 MHz	dB		33	29	_
Input Return Loss						
	5 - 862 MHz	dB		25	18	_
Output Return Loss						
	5 - 862 MHz	dB	_	25	18	_
Coupled Return Loss	_					
	5 - 862 MHz	dB	_	25	18	_

S 1432 D

- North America Tel: 800.366.2266 Europe Tel: +353.21.244.6400
 - India Tel: +91.80.4155721
- China Tel: +86.21.2407.1588

Visit www.macomtech.com for additional data sheets and product

Operating Characteristics

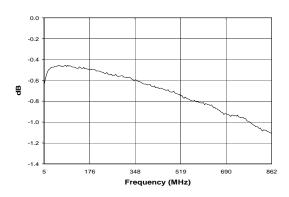
Function	Pin No.		
Input	1		
Output	6		
Coupled	3		
External 75 Ohms	4		
Ground	2		
Not Connected	5		

Absolute Maximum Ratings

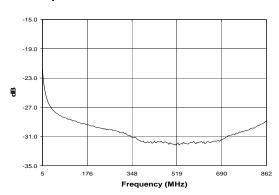
Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Pin Temperature (10 sec)	260°C		
Operating/Storage Temperature	-40°C to +85°C		

Typical Performance @ 25°C

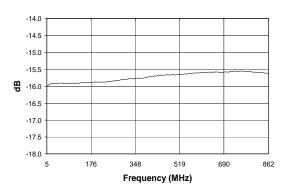
Mainline Loss



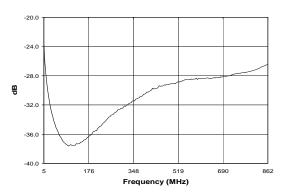
Input Return Loss



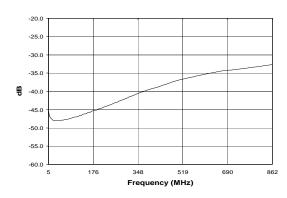
Coupling



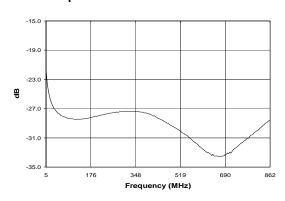
Output Return Loss



Isolation



Coupled Port Return Loss



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- **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.
- 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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