E-Series 75 Ohm Coupler 5 - 1000 MHZ



Features

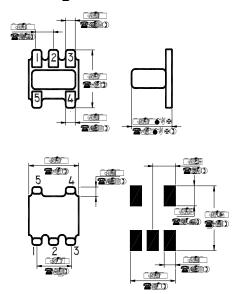
- Coupling 13db Typical
- Surface Mount
- Tape and Reel Packaging available



Description

M/A-COM's EMDC-13-1-75 is a high performance 75 Ohm Coupler, in an SM-22, surface mount package. The EMDC-13-1-75 is designed for use in high volume CATV applications. Typical applications include Set-top Boxes, Network Interface Units, Cable Amplifiers and Headend equipment.

SM-22 Package



Electrical Specifications @25°C

Frequency Range 5 - 1000 MHz	Units	Nominal	Typical	Minimum	Maximum
Mainline Loss					
5 - 50 MHz	dB	_	1.5	_	2.2
50 - 500 MHz	dB	_	1.3	_	2.0
500 - 1000 MHz	dB	_	1.3	_	2.0
Coupling					
5 - 1000 MHz	dB	13 ± 1.1	_	_	_
Coupling Flatness	dB	_	_	_	0.9
Directivity					
5 - 50 MHz	dB	_	25	20	_
50 - 500 MHz	dB	_	20	15	_
500 - 1000 MHz	dB	_	13	7	_
Return Loss, all Ports					
5 - 1000 MHz	dB	_	14	8	_

Please Note that the photograph above indicates package shape only, unit may be wired differently.

S 1360 D

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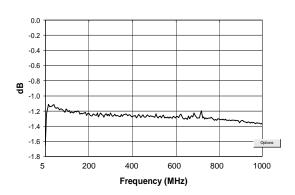
Visit www.macomtech.com for additional data sheets and product information.

Absolute Maximum Ratings

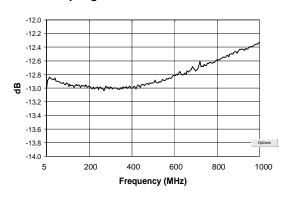
Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Operating/Storage Temperature	-20°C to +85°C		

Typical Performance @ 25°C

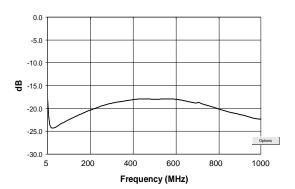
Mainline Loss



Coupling



Output Return Loss

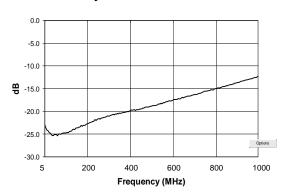


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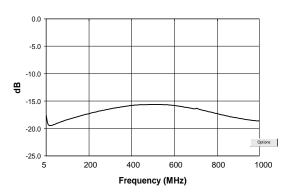
Operating Characteristics

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

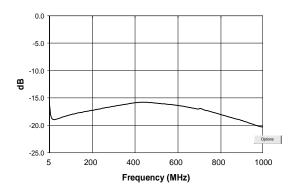
Directivity



Input Return Loss



Coupling Return Loss



S 1360 D

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