

E-Series 75 Ohm Coupler 5 - 1000 MHz

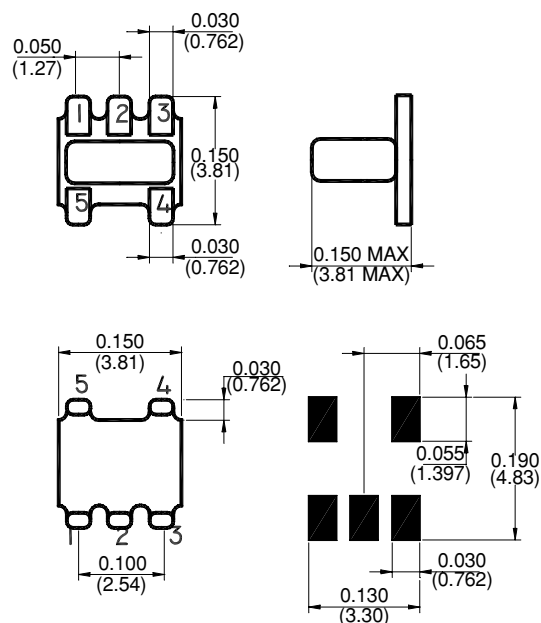


Features

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



SM-22 Package



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.

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.

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Absolute Maximum Ratings

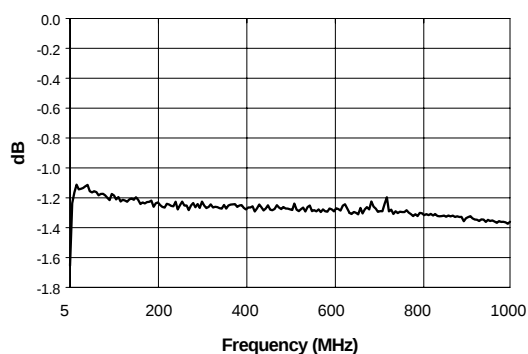
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Operating/Storage Temperature	-20°C to +85°C

Operating Characteristics

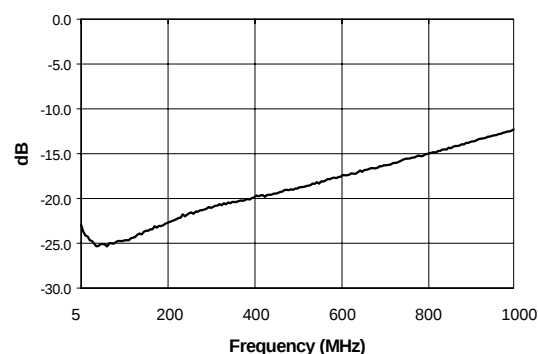
Function	Pin No.
Input	3
Output	4
Coupled	1
Ground	2
Case Ground	—
External 75 Ohms	5
Not Connected	—

Typical Performance @ 25°C

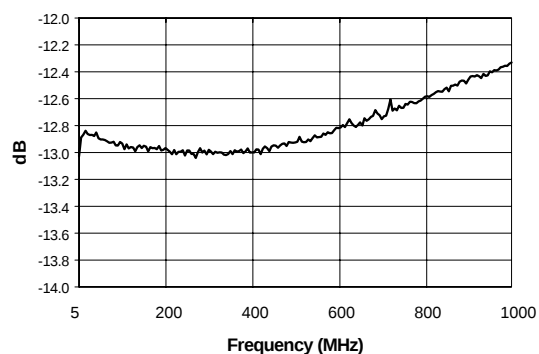
Mainline Loss



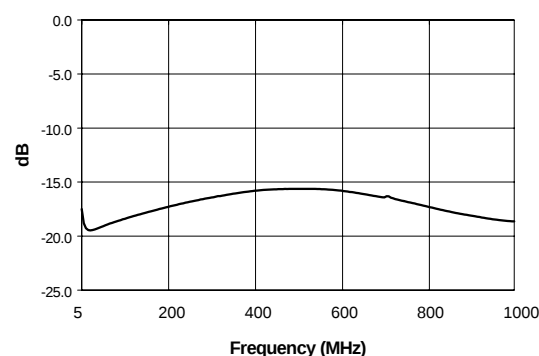
Directivity



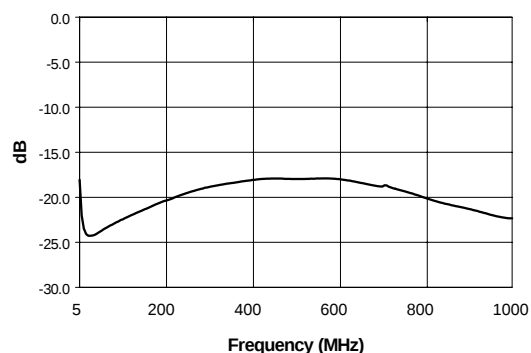
Coupling



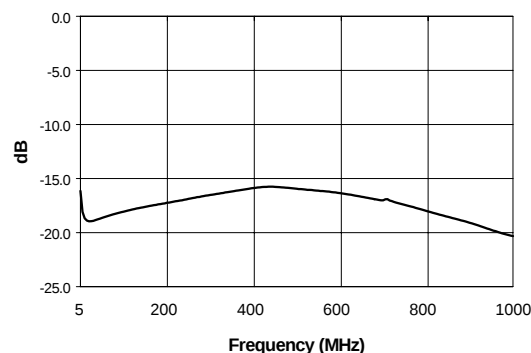
Input Return Loss



Output Return Loss



Coupling Return Loss



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