

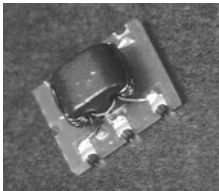
E-Series 75 Ohm Coupler

5 - 862 MHz

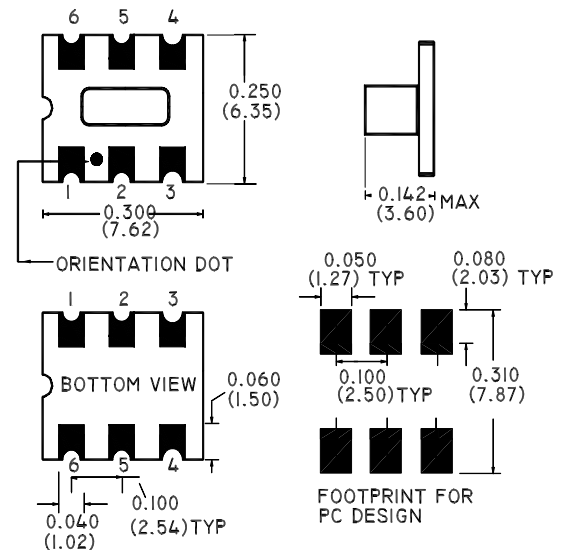


Features

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



SM-101 Package



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

Electrical Specifications @25°C, Z₀ = 75 Ohms

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

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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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Operating Characteristics

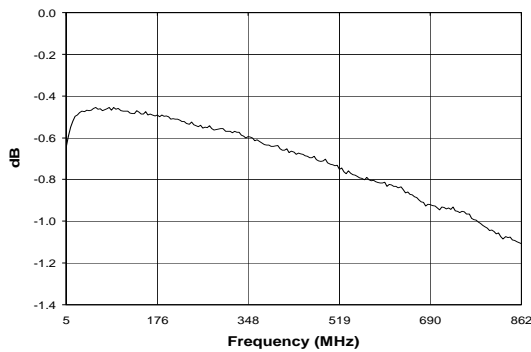
Function	Pin No.
Input	1
Output	6
Coupled	3
External 75 Ohms	4
Ground	2
Not Connected	5

Absolute Maximum Ratings

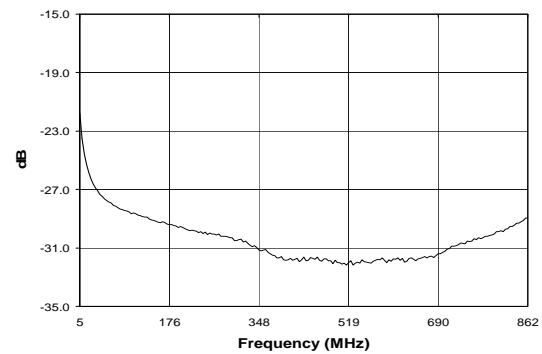
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Pin Temperature (10 sec)	260°C
Operating/Storage Temperature	-40°C to +85°C

Typical Performance @ 25°C

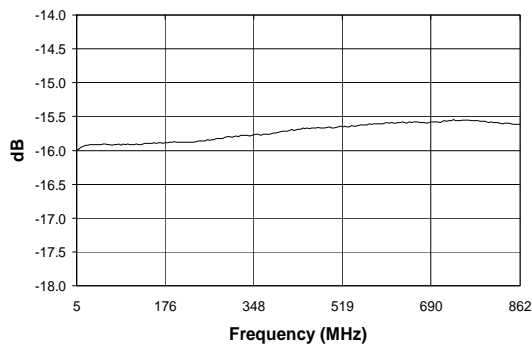
Mainline Loss



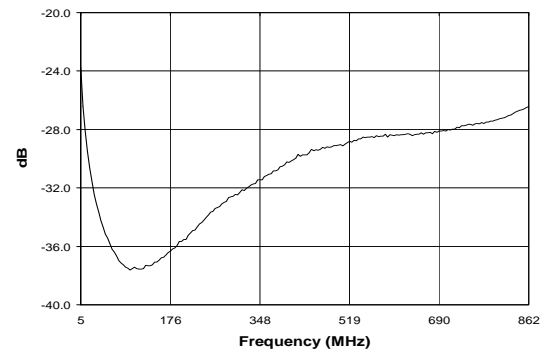
Input Return Loss



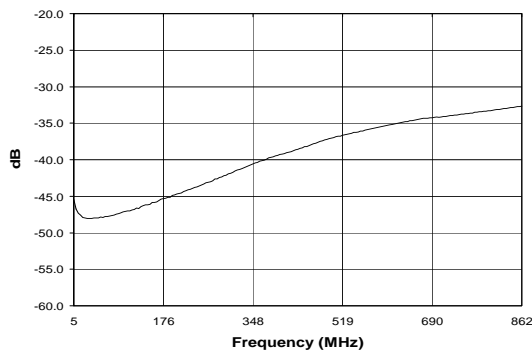
Coupling



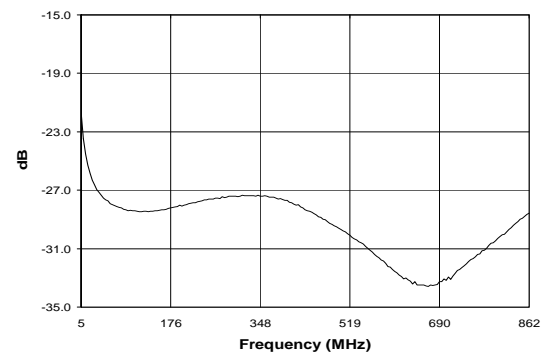
Output Return Loss



Isolation



Coupled Port Return Loss



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