



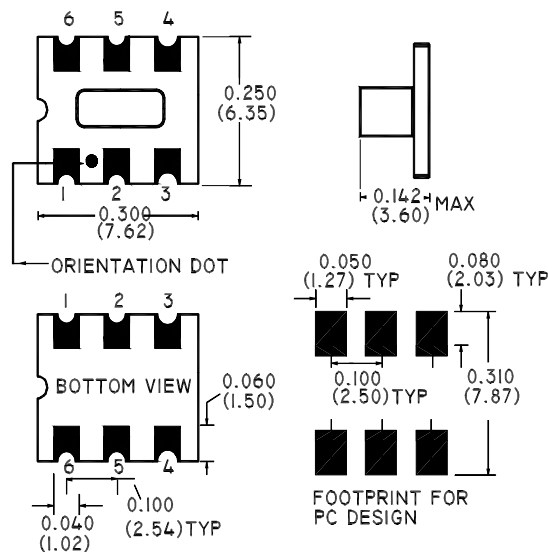
## E-Series 75 Ohm Coupler 5 - 862 MHz

### 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, Z<sub>0</sub> = 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	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

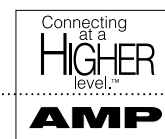
S 1432 D



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### Operating Characteristics

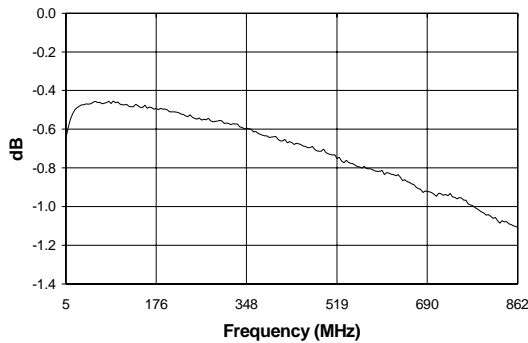
Function	Pin No.
Input	1
Output	6
Coupled	3
External 75 Ohms	4
Ground	2
Not Connected	5

### Absolute Maximum Ratings

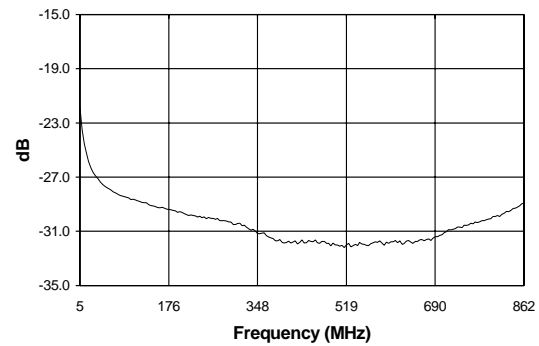
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Pin Temperature (10 sec)	260°C
Operating/Storage Temperature	-40°C to +85°C

### Typical Performance @ 25°C

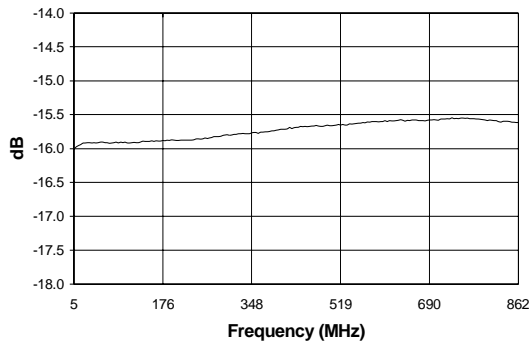
Mainline Loss



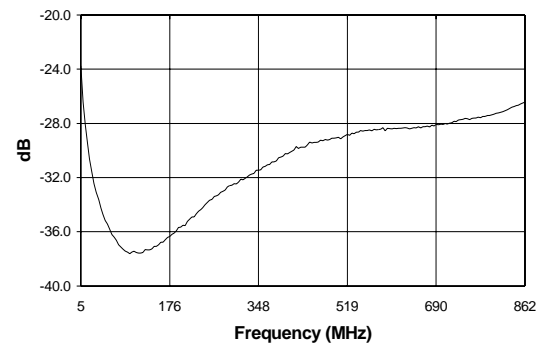
Input Return Loss



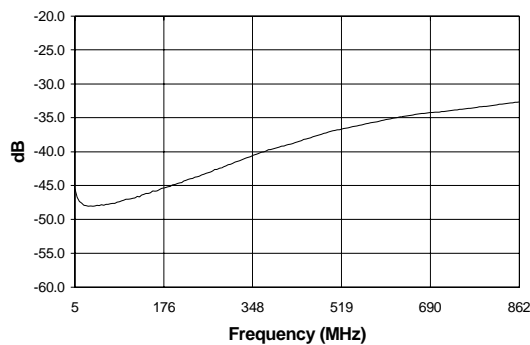
Coupling



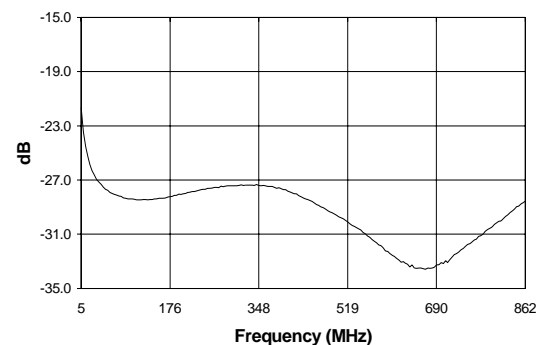
Output Return Loss



Isolation



Coupled Port Return Loss



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