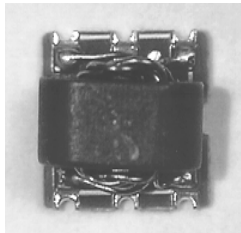




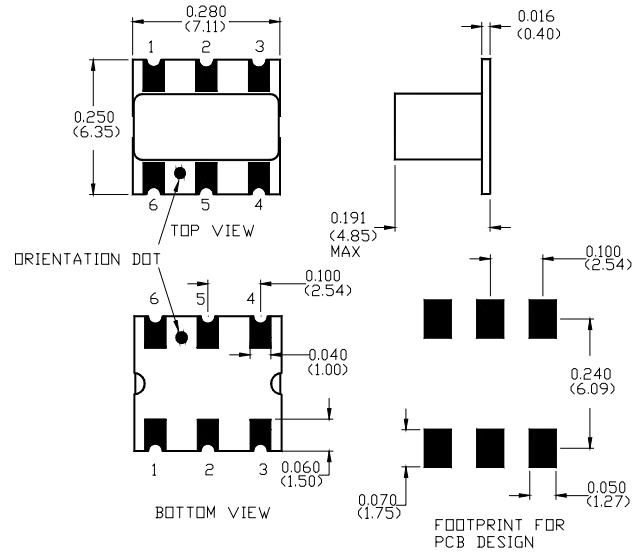
## E-Series 75 Ohm Coupler 40 - 870 MHz

### Features

- Low Intermod Distortion
- Coupling 10db Typical
- Surface Mount
- Tape and Reel Packaging available



### SM-103 Package



### Description

M/A-COM's ELDC-10LI is a high performance 75 Ohm Coupler, in a SM-103 low cost, surface mount package. The ELDC-10LI is specifically designed for extremely low intermod distortion in

### Electrical Specifications @25°C

Frequency Range	40 - 870 MHz	Units	Nominal	Typical	Minimum	Maximum
Mainline Loss	40 - 870 MHz	dB	—	1.3	—	1.6
Coupling	40 - 870 MHz	dB	10.4	—	—	± 0.6
Coupling Flatness		dB	—	—	—	1.0
Directivity	40 - 870 MHz	dB	—	14	10	—
Input Return Loss	40 - 870 MHz	dB	—	24	18	—
Output Return Loss	40 - 870 MHz	dB	—	26	20	—
Coupled Return Loss	40 - 870 MHz	dB	—	21	15	—

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

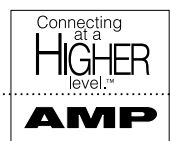
V1.00 S 1472 B



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Specifications subject to change without notice.



### Operating Characteristics

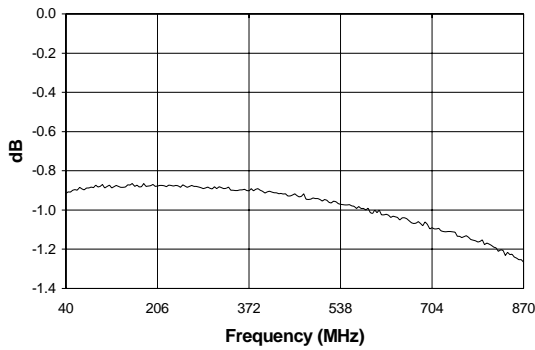
Function	Pin No.
Input	6
Output	1
Coupled	4
Ground	5
Not Connected	2
External 75 Ohms	3

### Absolute Maximum Ratings

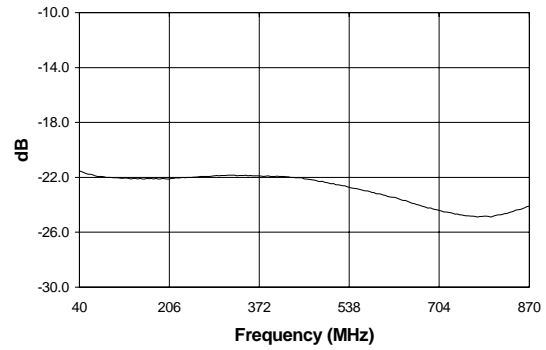
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Pin Temperature (10 sec)	260°C
Operating/Storage Temperature	-40°C to +85°C

### Typical Performance @ 25°C

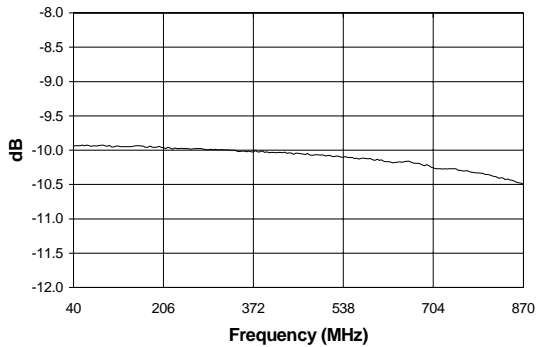
Mainline Loss



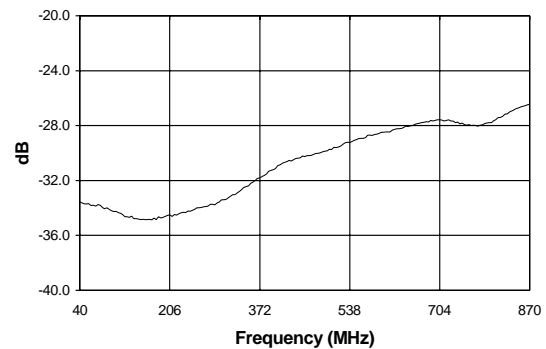
Input Return Loss



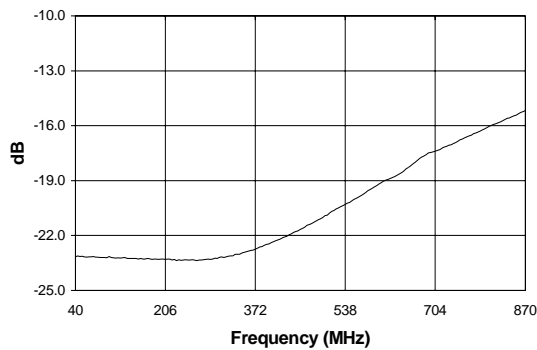
Coupling



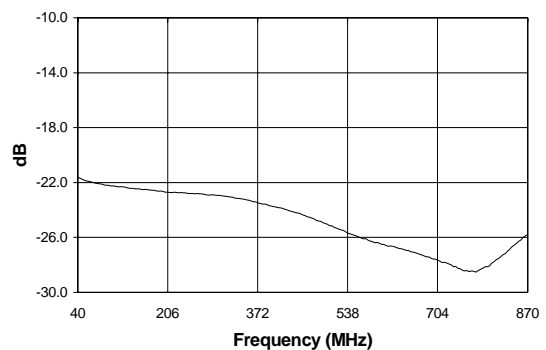
Output Return Loss



Directivity



Coupled Port Return Loss



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