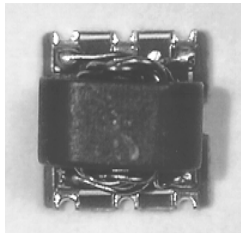




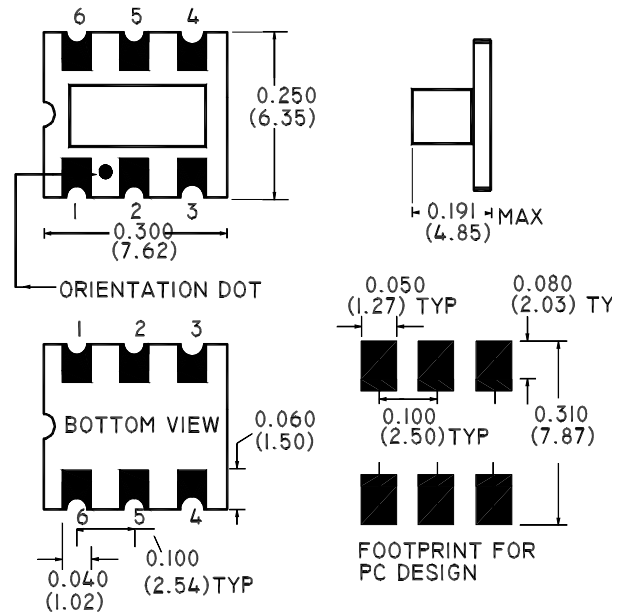
## E-Series 75 Ohm Coupler 5 - 870 MHz

### Features

- Low Intermod Distortion
- Coupling 12db Typical
- Surface Mount
- Tape and Reel Packaging available



SM - 115



### Description

M/A-COM's ELDC-12LI is a high performance 75 Ohm Coupler, in a SM-115 low cost, surface mount package. The ELDC-12LI is specifically designed for extremely low intermod distortion in CATV applications.

### Electrical Specifications @25°C

Frequency Range	5 - 870 MHz	Units	Nominal	Typical	Minimum	Maximum
Mainline Loss	5 - 870 MHz	dB	—	1.8	—	2.2
Coupling	5 - 870 MHz	dB	12.4	—	—	± 0.5
Coupling Flatness		dB	—	—	—	1.0
Isolation	5 - 870 MHz	dB	—	28	23	—
Input Return Loss	5 - 500 MHz	dB	—	30	25	—
	500 - 670 MHz	dB	—	25	20	—
	670 - 870 MHz	dB	—	18	13	—
Output Return Loss	5 - 550 MHz	dB	—	26	20	—
	550 - 750 MHz	dB	—	20	15	—
	750 - 870 MHz	dB	—	16	12	—
Coupled Return Loss	40 - 600 MHz	dB	—	25	20	—
	600 - 870 MHz	dB	—	20	15	—

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

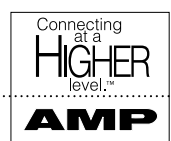
S 1490C



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### Operating Characteristics

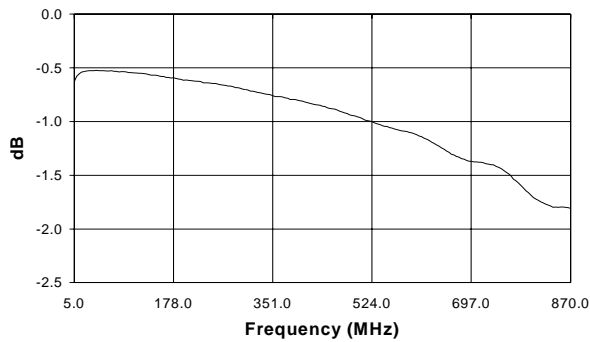
Function	Pin No.
Input	6
Output	1
Coupled	4
Ground	2
Not Connected	5
External 75 Ohms	3

### Absolute Maximum Ratings

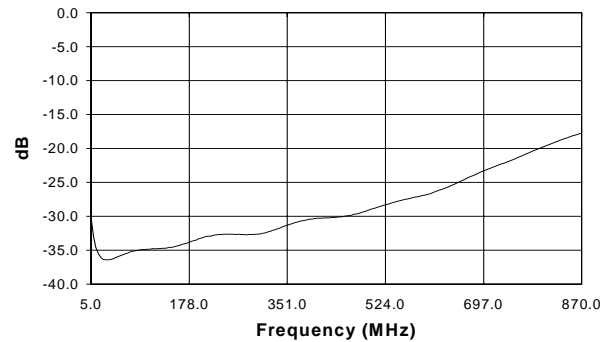
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Pin Temperature (10 sec)	260°C
Operating/Storage Temperature	-40°C to +85°C

### Typical Performance @ 25°C

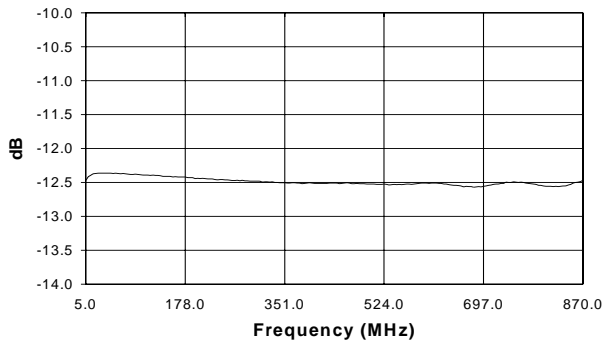
Mainline Loss



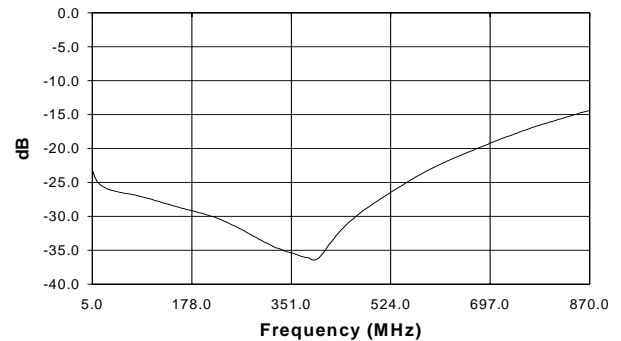
Input Return Loss



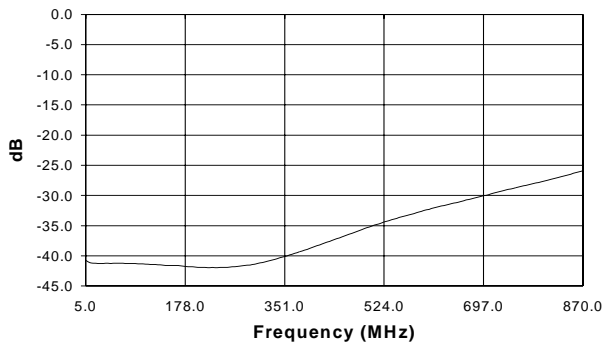
Coupling



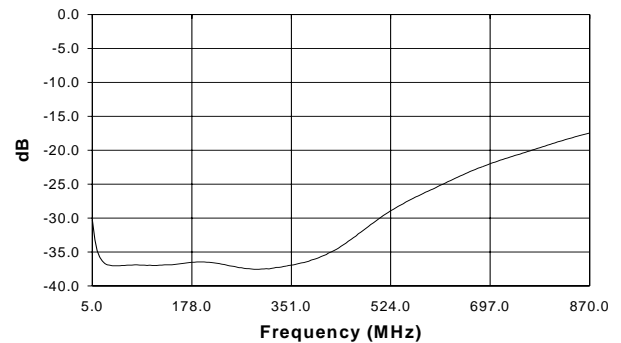
Output Return Loss



Isolation



Coupled Port Return Loss



S 1490C



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