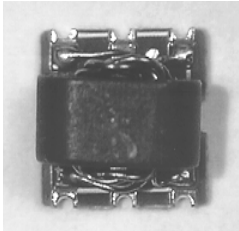




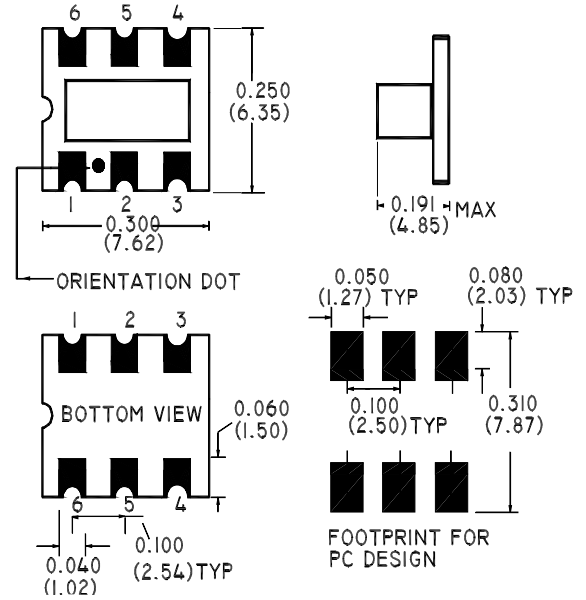
E-Series 75 Ohm Coupler 5 - 870 MHz

Features

- Low Intermod Distortion
- Coupling 8.5dB Typical
- Surface Mount
- Tape and Reel Packaging available



SM - 115



Description

M/A-COM's ELDC-8LI-1 is a high performance 75 Ohm Coupler, in a SM-115 low cost, surface mount package. The ELDC-8LI-1 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	—	2.9
Coupling	5 - 870 MHz	dB	8.3	—	—	± 0.5
Coupling Flatness		dB	—	—	—	1.0
Isolation	5 - 250 MHz	dB	—	28	23	—
	250 - 500 MHz	dB	—	24	20	—
	500 - 870 MHz	dB	—	18	15	—
Input Return Loss	5 - 20 MHz	dB	—	17	15	—
	20 - 500 MHz	dB	—	20	17	—
	500 - 870 MHz	dB	—	16	13	—
Output Return Loss	5 - 450 MHz	dB	—	28	20	—
	450 - 650 MHz	dB	—	18	16	—
	650 - 870 MHz	dB	—	16	14	—
Coupled Return Loss	40 - 600 MHz	dB	—	17	15	—
	600 - 870 MHz	dB	—	20	17	—
	650 - 870 MHz	dB	—	17	15	—

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

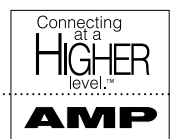
S 1491 C



M/A-COM Division of AMP Incorporated ■ North America: Tel. (800) 366-2266, Fax (800) 618-8883 ■ Asia/Pacific: Tel. +85 2 2111 8088, Fax +85 2 2111 8087 ■ Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

www.macom.com

AMP and Connecting at a Higher Level are trademarks.
Specifications subject to change without notice.



Operating Characteristics

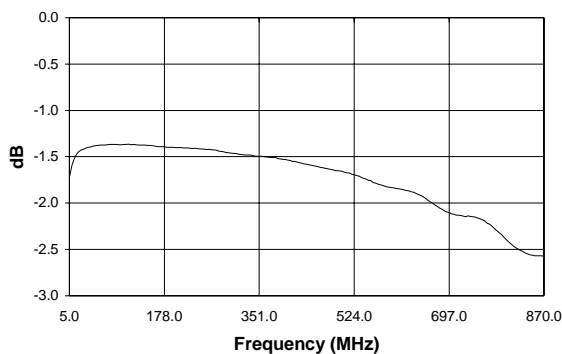
Function	Pin No.
Input	6
Output	1
Coupled	4
Ground	5
Not Connected	2
External 75 Ohms	3

Absolute Maximum Ratings

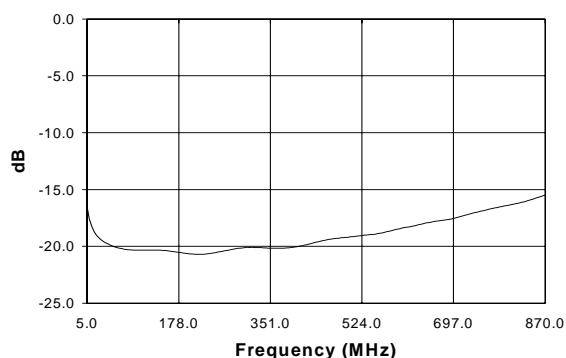
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Pin Temperature (10 sec)	260°C
Operating/Storage Temperature	-40°C to +85°C

Typical Performance @ 25°C

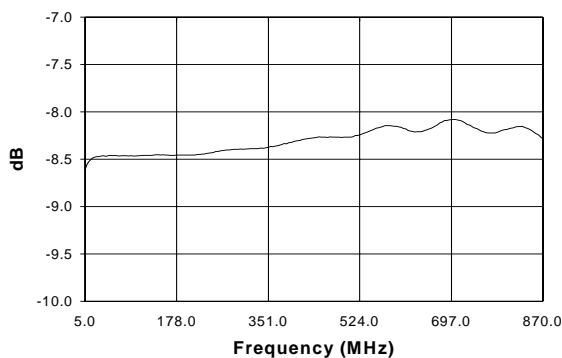
Mainline Loss



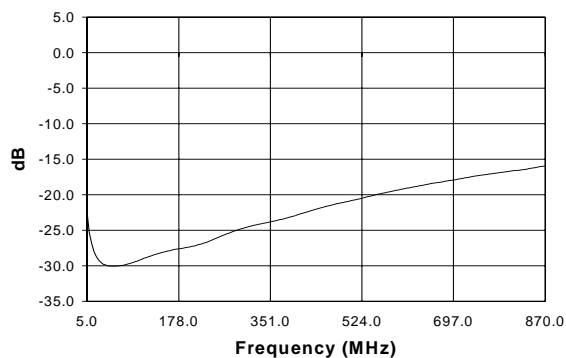
Input Return Loss



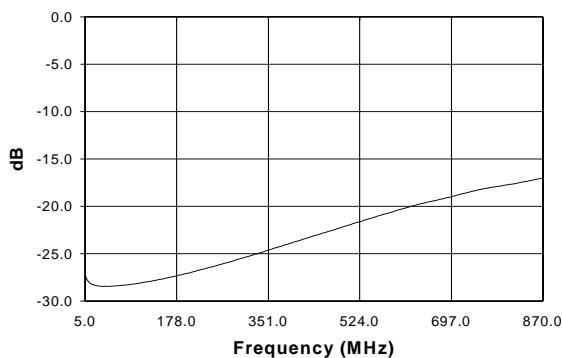
Coupling



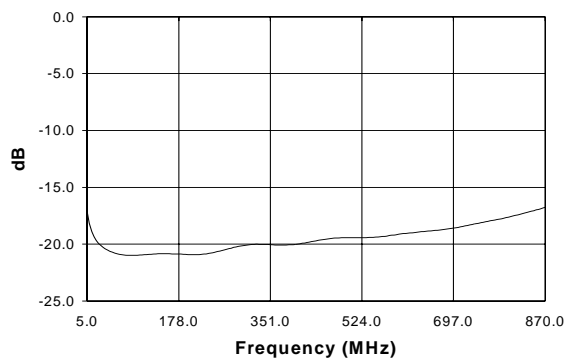
Output Return Loss



Isolation



Coupled Port Return Loss



S 1491 C



M/A-COM Division of AMP Incorporated ■ North America: Tel. (800) 366-2266, Fax (800) 618-8883 ■ Asia/Pacific: Tel. +85 2 2111 8088, Fax +85 2 2111 8087 ■ Europe: Tel. +44 (1344) 869 595, Fax+44 (1344) 300 020

www.macom.com

AMP and Connecting at a Higher Level are trademarks. Specifications subject to change without notice.

