



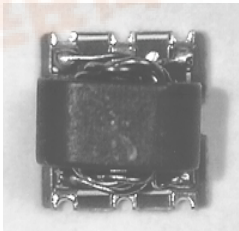
M/A-COM

E-Series 75 Ohm Coupler 50 - 870 MHZ

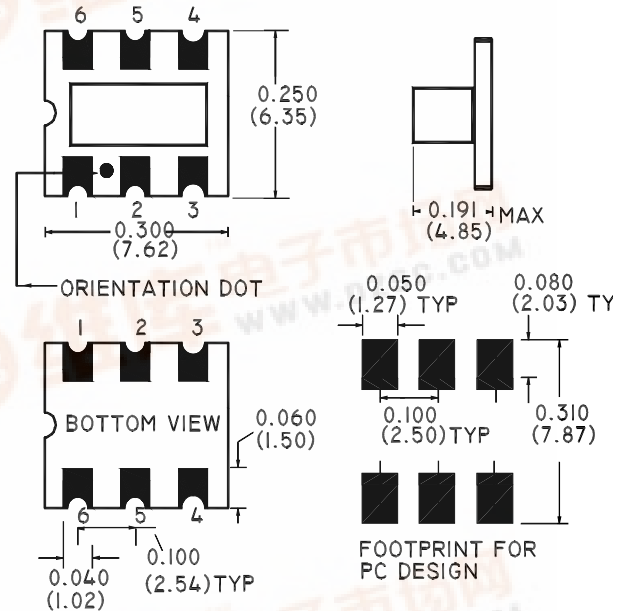


Features

- Low Intermod Distortion
- Coupling 6.5dB Typical
- Surface Mount
- Tape and Reel Packaging available



SM - 115



Description

M/A-COM's ELDC-6LI is a high performance 75 Ohm Coupler, in a SM-115 low cost, surface mount package. The ELDC-6LI is specifically designed for extremely low intermod distortion in CATV applications.

Electrical Specifications @25°C

Frequency Range	50 - 870 MHz	Units	Nominal	Typical	Minimum	Maximum
Mainline Loss	50 - 870 MHz	dB	—	2.3	—	3.2
Coupling	50 - 870 MHz	dB	6.5	—	—	± 0.5
Isolation	50 - 870 MHz	dB	—	22	20	—
Input Return Loss	50 - 870 MHz	dB	—	19	15	—
Output Return Loss	50 - 870 MHz	dB	—	25	15	—
Coupled Return Loss	50 - 870 MHz	dB	—	19	15	—

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

Operating Characteristics

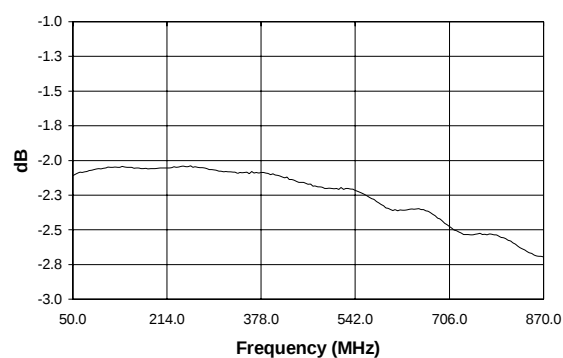
Function	Pin No.
Input	1
Output	6
Coupled	3
Ground	2
Not Connected	5
External 75 Ohms	4

Absolute Maximum Ratings

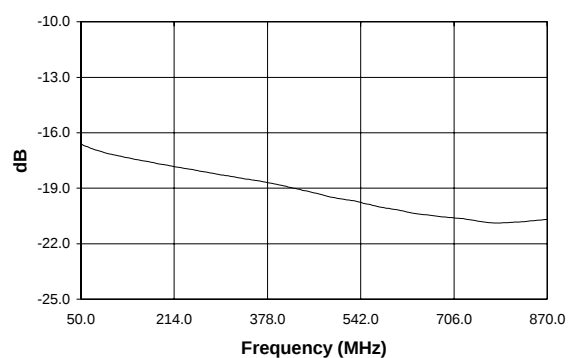
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Pin Temperature (10 sec)	260°C
Operating/Storage Temperature	-40°C to +85°C

Typical Performance @ 25°C

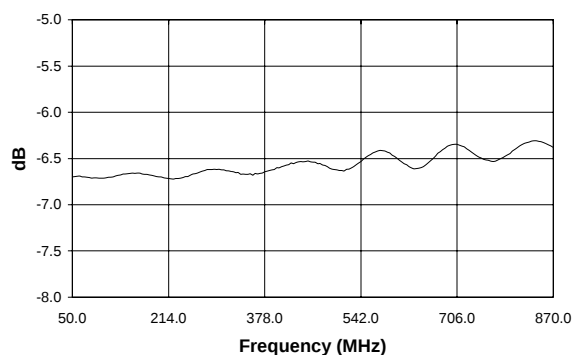
Mainline Loss



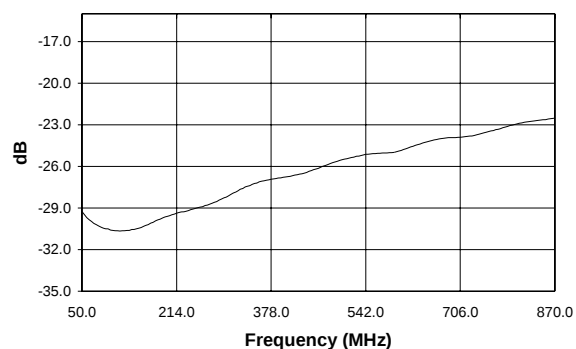
Input Return Loss



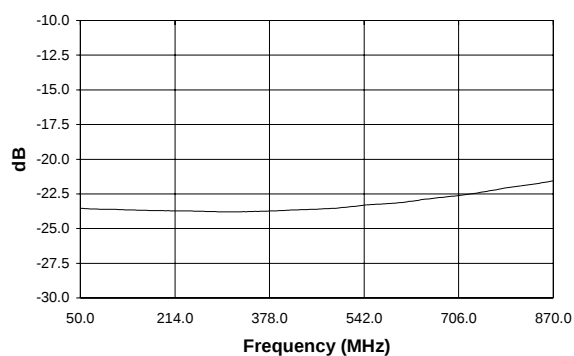
Coupling



Output Return Loss



Isolation



Coupled Port Return Loss

