ELDC-10

Coupler, 10dB
5 to 870 MHz

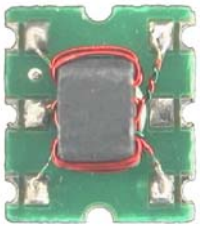
Rev. V1

Features

- Coupling 10dB Typical
- Surface mount
- low profile
- 260°C reflow compatible
- Excellent Return Loss
- Available on Tape & Reel

Description

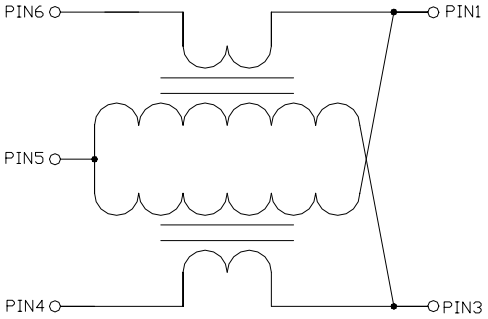
M/ACom Technology Solutions ELDC-10 is a high performance 75 Ohm Coupler, in a low cost, surface mount package. The ELDC-10 is designed for use in high volume CATV applications. Typical applications include Set top Boxes, Network Interface Units, Line Amplifiers and Head end equipment.



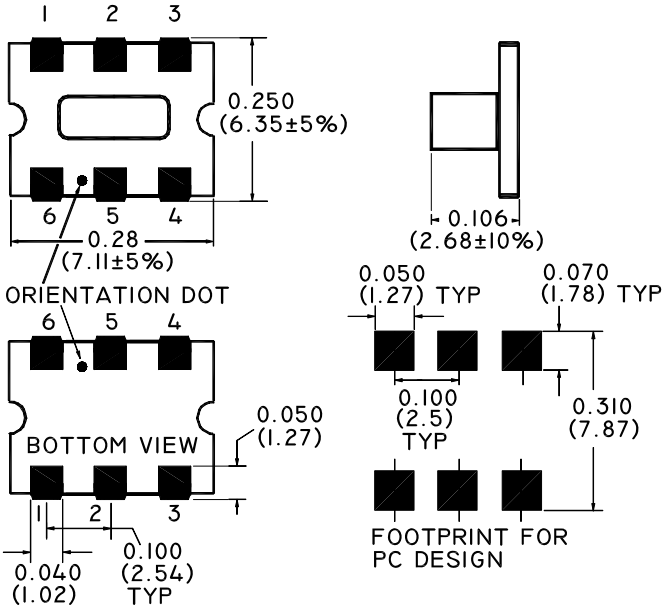
Pin Configuration

Pin no.	Function
1	Output
2	Not connected
3	Isolated
4	Coupled
5	Ground
6	Input

Schematic



Component dimensions



Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010, unless otherwise stated

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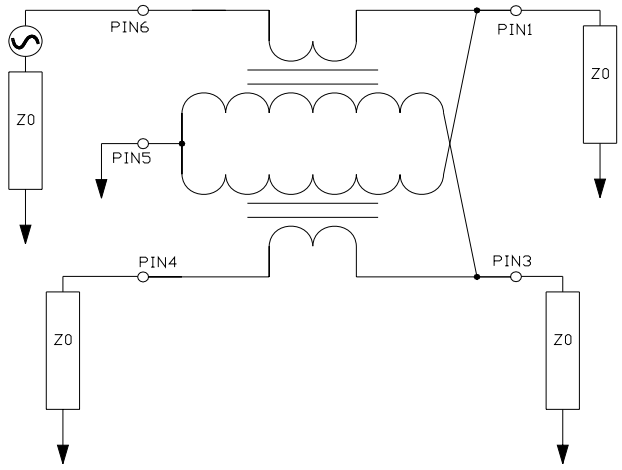
Electrical Specifications: T_A = 25°C, 0dBm, Z_0 = 75Ω, P_{in} = 0dBm

Parameter	Frequency	Units	Min	Typ	Max
Main Line Loss	5 - 500 MHz 500 - 870 MHz	dB dB	- -	0.9 1.0	1.3 1.5
Coupling	5 - 870 MHz	dB	-	10	±0.5
Coupling Flatness	-	dB	-	-	1.0
Directivity	5 - 500 MHz 500 - 870 MHz	dB dB	23 21	20 17	- -
Input Return Loss	5 - 870 MHz	dB	20	18	-
Output Return Loss	5 - 870 MHz	dB	20	18	-
Coupling Return Loss	5 - 870 MHz	dB	20	18	-

Recommended Maximum Ratings

Parameter	Value
Input power	At least 250mW
DC current	At least 30mA
Operating Temperature	-40°C to +70°C
Storage Temperature	-55°C to +100°C

Application Circuit



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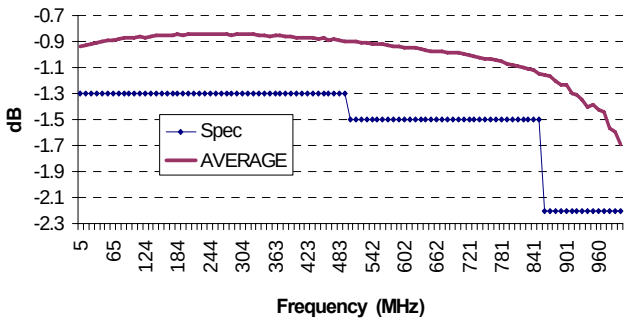
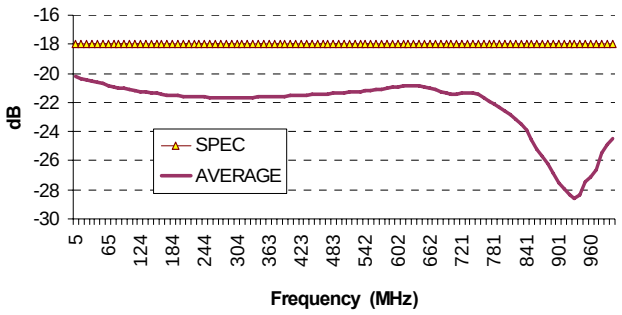
Typical Performance Curves: T_A = 25°C, 0dBm, Z_0 = 75Ω, P_{in} = 0dBm

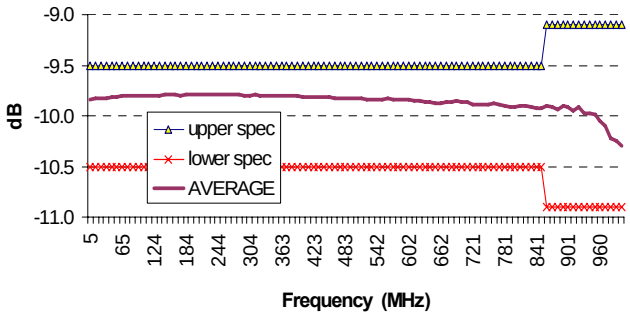
Main Line Loss:



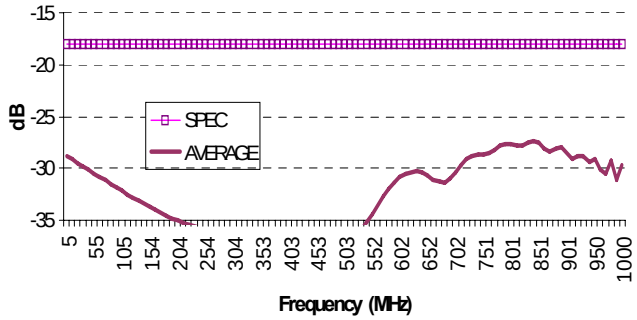
Input Return Loss



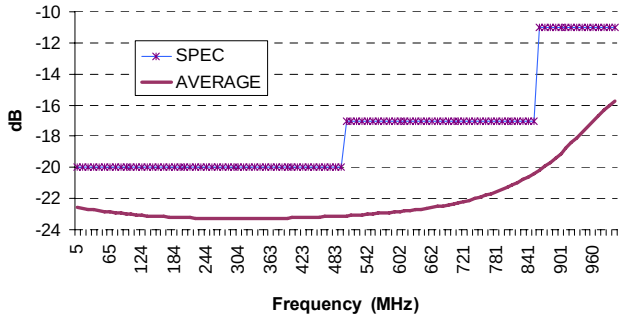
Coupling



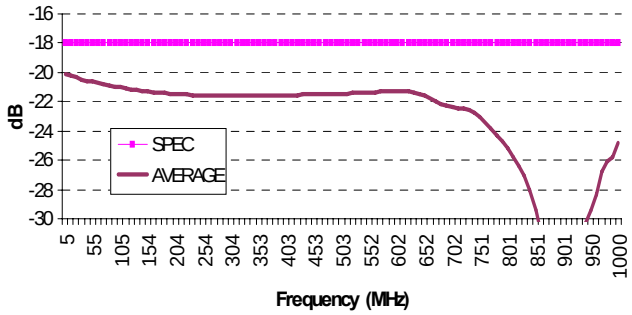
Output Return Loss



Directivity



Coupled Return Loss



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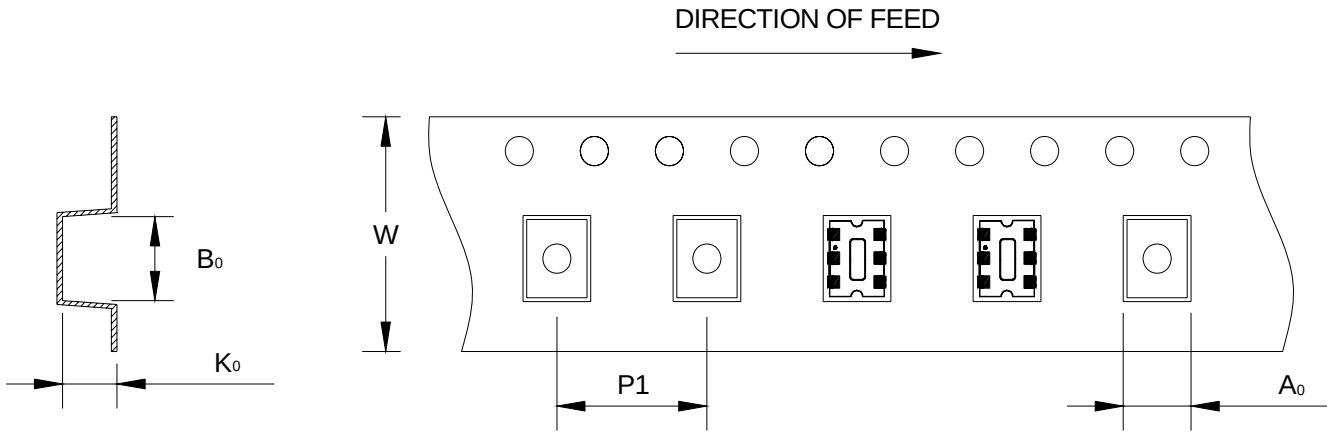
Tape & Reel Information



Item	Dimension
Ao	7.1mm +/- 0.1mm
Bo	8.1mm +/- 0.1mm
Ko	3.5mm +/- 0.1mm
W	16.0mm +/- 0.3mm
P1	12.00mm +/- 0.1mm

Ordering Information

Part number	Description
ELDC-10	900 piece reel

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- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

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- *Входной контроль качества.*
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