



M/A-COM

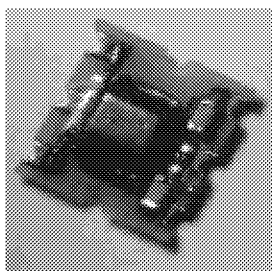
ELDC-10

E-Series 75 Ohm Coupler 5 - 1000 MHz



Features

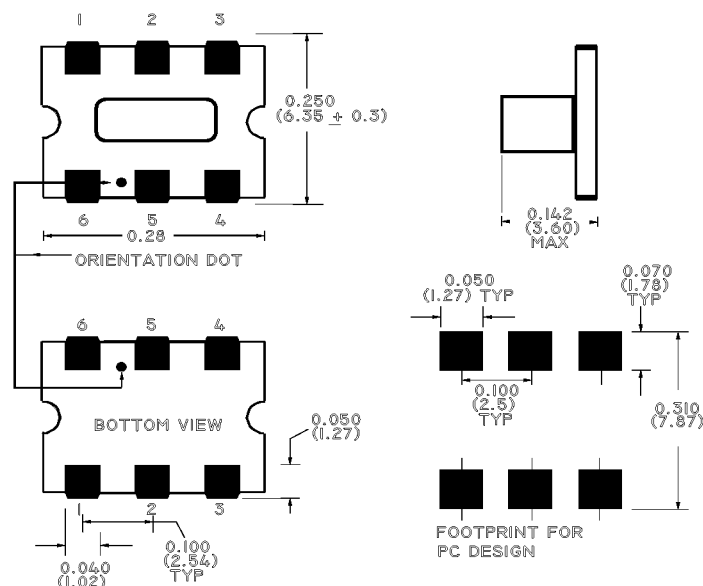
- Coupling +10db Typical
- Surface Mount
- Low Profile
- Excellent Return Loss
- Tape & Reel Packaging available



Description

M/A-COM's ELDC-10 is a high performance 75 Ohm Coupler, in a SM-55 low cost, surface mount package. The ELDC-10 is designed for use in high volume CATV applications. Typical applications include Settop Boxes, Network Interface Units, Line Amplifiers and Headend equipment.

SM-55 Package



Electrical Specifications @25°C, $Z_0 = 75$ Ohms

Frequency Range	5 - 1000 MHz	Units	Nominal	Typical	Minimum	Maximum
Mainline Loss	5 - 500 MHz	dB	—	0.9	—	1.3
	500 - 870 MHz	dB	—	1.0	—	1.5
	870 - 1000 MHz	dB	—	1.7	—	2.2
Coupling	5 - 870 MHz	dB	10	—	—	± 0.5
	870 - 1000 MHz	dB	10	—	—	± 0.9
Coupling Flatness		dB	—	—	—	1.0
Directivity	5 - 500 MHz	dB	—	23	20	—
	500 - 870 MHz	dB	—	21	17	—
	870 - 1000 MHz	dB	—	14	11	—
Input Return Loss	5 - 1000 MHz	dB	—	20	18	—
Output Return Loss	5 - 1000 MHz	dB	—	20	18	—
Coupled Return Loss		dB	—	20	18	—

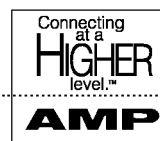
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Specifications subject to change without notice.



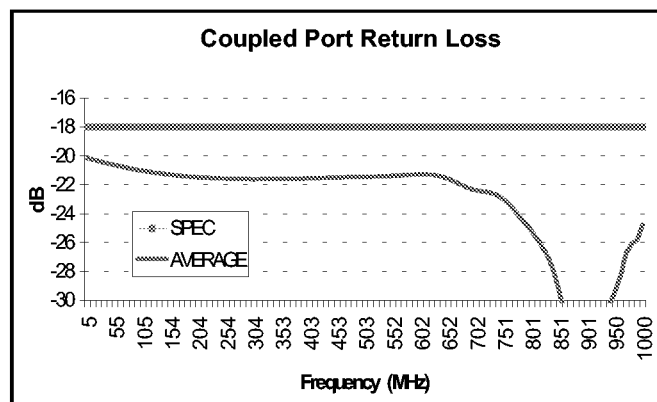
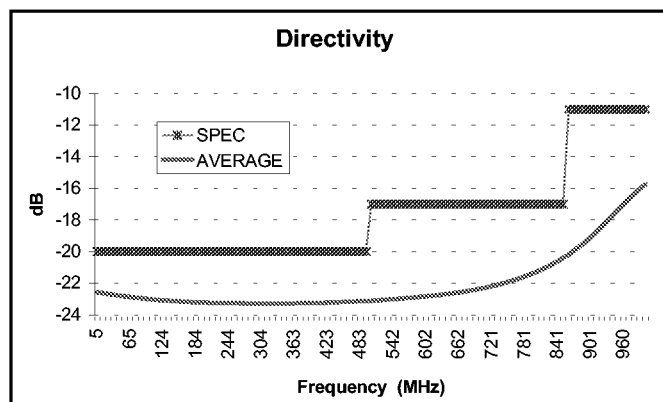
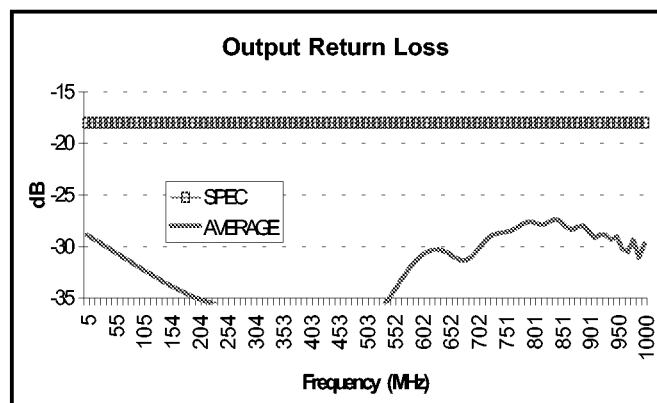
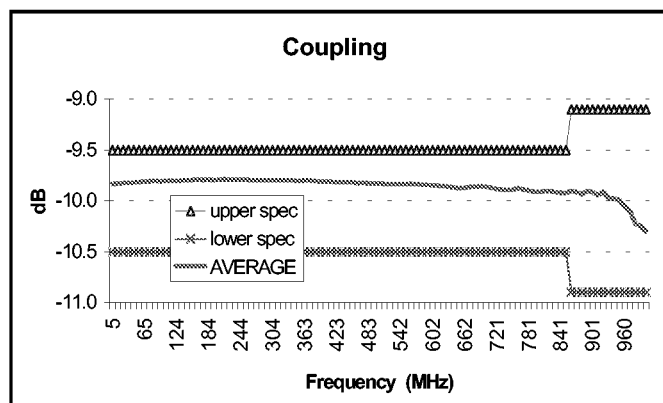
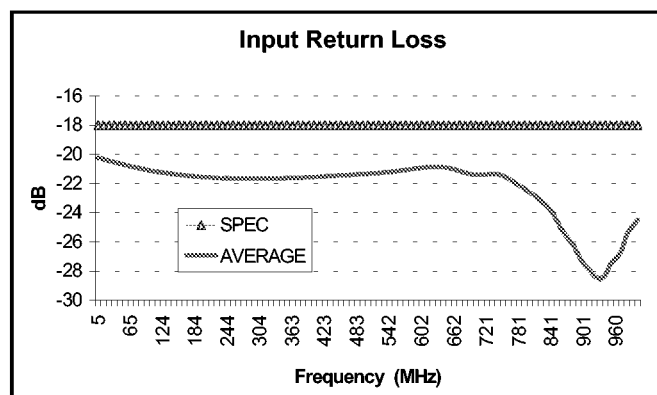
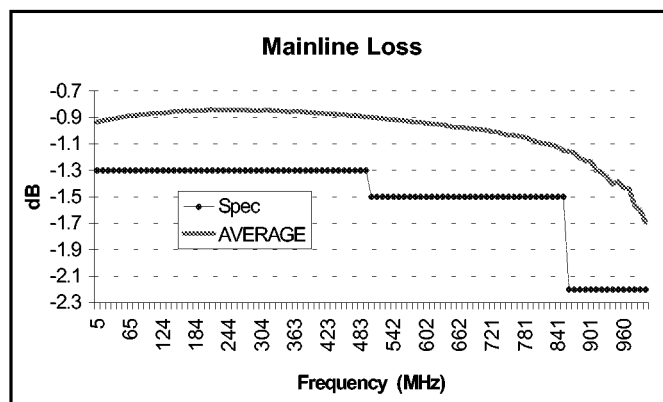
Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Pin Temp (10 sec)	260°C
Storage Temperature	-55°C to +100°C
Operating Temperature	-10°C to +70°C

Operating Characteristics

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

Typical Performance @ +25°C



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