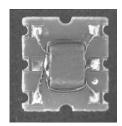
E-Series 75 Ohm Coupler 5 - 1000 MHz



Features

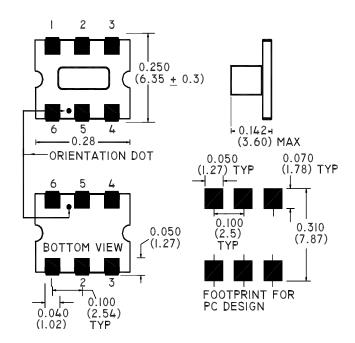
- Coupling 8db Typical
- Surface Mount
- Low Profile
- Tape and Reel Packaging available



Description

M/A-COM's ELDC-8X1 is a high performance 75 Ohm Coupler, in a SM-55 low cost, surface mount package. The ELDC-8 is designed for use in high volume CATV applications. Typical applications include Set-top Boxes, Network Interface Units, Line Amplifiers and Headend equipment.

SM-55 Package



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

Frequency Range	e 5 - 1000 MHz	Units	Nominal	Typical	Minimum	Maximum
Mainline Loss	5 - 870 MHz 870 - 1000 MHz	dB dB	_	1.9 2.1	_	2.1 2.3
Coupling	5 - 870 MHz 870 - 1000 MHz	dB dB	8.5 7.9			± 0.5 ± 0.5
Coupling Flatness		dB	_	_		0.9
Directivity	5 - 870 MHz 870 - 1000 MHz	dB dB		14.5 13.5	12.5 11.5	
Input Return Loss	5 - 50 MHz 50 - 870 MHz 870 - 1000 MHz	dB dB dB	_ _ _	19.0 19.5 22.0	18.0 17.5 18.5	_ _ _
Output Return Loss	5 - 50 MHz 50 - 870 MHz 870 - 1000 MHz	dB dB dB	_ _ _	27.0 28.0 28.5	25.5 24.5 24.0	_ _ _
Coupled Return Loss	5 - 50 MHz 50 - 870 MHz 870 - 1000 MHz	dB dB dB	_ _ _	18.0 18.5 23.0	16.5 17.0 19.0	_ _ _

S 1419 C

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 typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available.

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 China Tel: +86.21.2407.1588
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Operating Characteristics

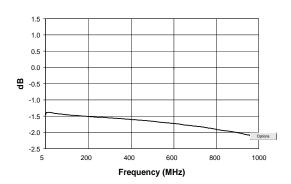
Function	Pin No.		
Input	6		
Output	1		
Coupled	4		
External 75 Ohms	3		
Ground	5		
Not Connected	2		

Absolute Maximum Ratings

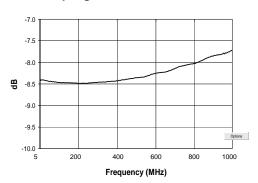
Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Pin Temperature (10 sec)	260°C		
Operating/Storage Temperature	-40°C to +85°C		

Typical Performance @ 25°C

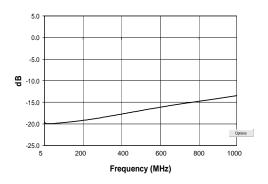
Insertion Loss



Coupling



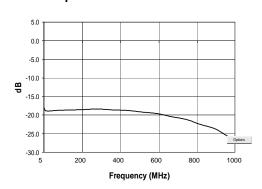
Directivity



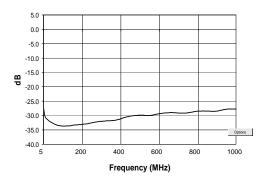
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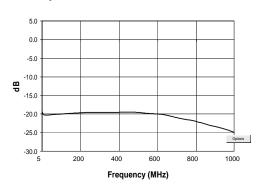
Coupled Port Return Loss



Output Return Loss



Input Return Loss



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