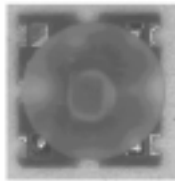




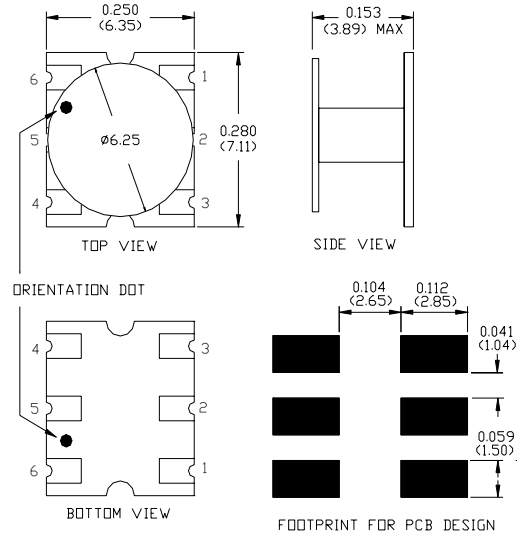
E-Series 75 Ohm Coupler 5 - 1000 MHz

Features

- Coupling 17db Typical
- Surface Mount
- Tape and Reel Packaging available



SM-127 Package



Description

M/A-COM's EMDC-17-5-75 is a 75 Ohm Coupler, in a low cost, surface mount package. The EMDC-17-5-75 is ideally suited for use in high volume CATV applications.

Electrical Specifications @25°C, Z₀ = 75 Ohms

Frequency Range	5 - 1000 MHz	Units	Nominal	Typical	Minimum	Maximum
Mainline Loss	5 - 860 MHz	dB	—	0.6	—	1.0
	860 - 1000 MHz	dB	—	0.8	—	1.2
Coupling	5 - 860 MHz	dB	17.2	—	—	± 0.7
	860 - 1000 MHz	dB	17	—	—	± 0.8
Coupling Flatness		dB	—	—	—	1.0
Directivity	5 - 50 MHz	dB	—	40	30	—
	50 - 500 MHz	dB	—	20	12	—
	500 - 1000 MHz	dB	—	12	5	—
Input Return Loss	5 - 50 MHz	dB	—	28	24	—
	50 - 500 MHz	dB	—	28	24	—
	500 - 1000 MHz	dB	—	25	20	—
Output Return Loss	5 - 50 MHz	dB	—	25	20	—
	50 - 500 MHz	dB	—	25	20	—
	500 - 1000 MHz	dB	—	23	20	—
Coupled Return Loss	5 - 50 MHz	dB	—	25	20	—
	50 - 500 MHz	dB	—	25	20	—
	500 - 1000 MHz	dB	—	23	18	—

***Notes:**

1. Core is coated with Paralyene C, 0.005" thick minimum.
2. Wire is heavy poly-nylon coated, rated to 180C.

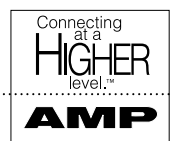
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Operating Characteristics

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

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Storage Temperature	-40°C to +85°C
Operating Temperature	-40°C to +85°C

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