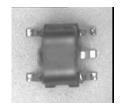
# E-Series 75 Ohm Coupler 5 - 1000 MHZ



## **Features**

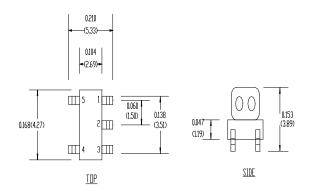
- Coupling +10db Typical
- Surface Mount
- Low Profile
- Excellent Return Loss
- Tape & Reel Packaging available

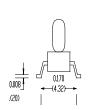


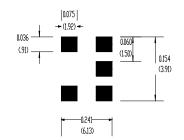
## **Description**

M/A-COM's MACPES0034 is a high performance 75 Ohm Coupler, in a SM-138 low cost, surface mount package. The MACPES0034 is designed for use in high volume CATV applications. Typical applications include Settop Boxes, Network Interface Units, Line Amplifiers and Headend equipment.

## SM-138 Package







SUGGEST SOLDER FOOTPRINT

# Electrical Specifications @25°C, Z<sub>0</sub> = 75 Ohms

Frequency Range 5 - 870 MHz		Units	Nominal	Typical	Minimum	Maximum
Mainline Loss	5 - 500 MHz	dB	_	0.9		1.3
	500 - 870 MHz	dB	_	1.2	_	1.5
	500 - 1000 MHz	dB	_	1.6		1.8
Coupling	5 - 870 MHz	dB	10	_	_	± 0.5
	870—1000 MHz	dB	10	_		± 0.9
Coupling Flatness		dB	_	_		1.0
Isolation	5 - 500 MHz	dB	_	30	25	_
	500 - 1000 MHz	dB	_	23	20	_
Input Return Loss	5 - 1000 MHz	dB	_	20	18	_
Output Return Loss	5 - 1000 MHz	dB	_	20	18	_
Coupled Return Loss	5 - 1000 MHz	dB	_	20	18	_

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Visit www.macomtech.com for additional data sheets and product information.

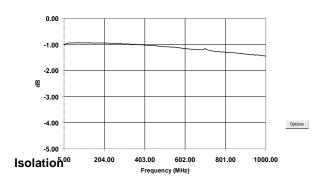
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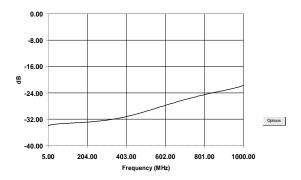
# **Absolute Maximum Ratings**

Parameter	Absolute Maximum		
RF Power	250 mW		
DC Current	30 mA		
Storage Temperature	-55°C to +100°C		
Operating Temperature	-40°C to +70°C		

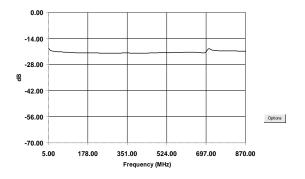
## Typical Performance Curves @ +25°C

#### **Mainline Loss**





## **Input Return Loss**

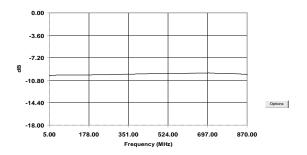


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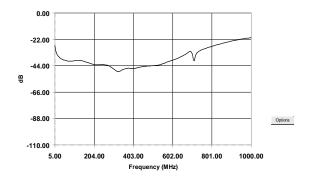
# **Pin Configuration**

Function	Pin No.		
Input	1		
Output	5		
Coupled	3		
External 75 Ohms	4		
Ground	2		

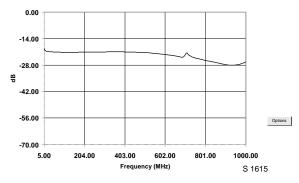
## Coupling



## **Output Return Loss**



## **Coupled Port Return Loss**



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