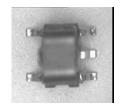
E-Series 75 Ohm Coupler 5 - 1000 MHZ



Features

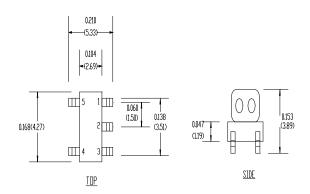
- Coupling +10db Typical
- Surface Mount
- Low Profile
- Excellent Return Loss
- Tape & Reel Packaging available

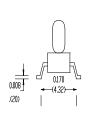


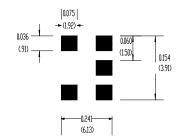
Description

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, Z₀ = 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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- **ADVANCED:** Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.
- and/or prototype measurements. Commitment to develop is not guaranteed.

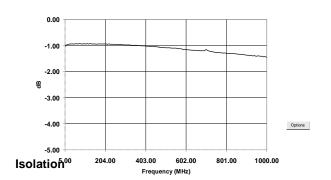
 PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology
 Solutions has under development. Performance is based on engineering tests. Specifications are
 typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available.
 Commitment to produce in volume is not guaranteed.
- North America Tel: 800.366.2266
 Europe Tel: +353.21.244.6400
 India Tel: +91.80.4155721
 China Tel: +86.21.2407.1588
 Visit www macomtech com for additional data sheets and product

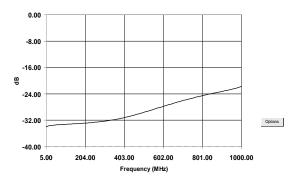
Absolute Maximum Ratings

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		

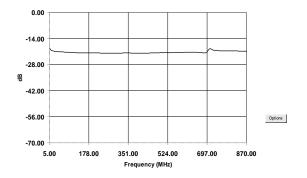
Typical Performance Curves @ +25°C

Mainline Loss





Input Return Loss

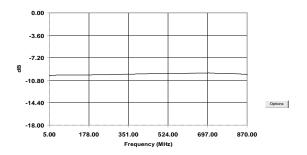


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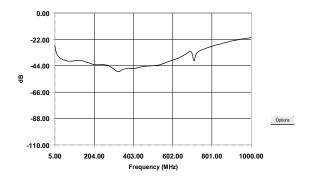
Pin Configuration

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

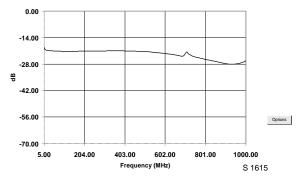
Coupling



Output Return Loss



Coupled Port Return Loss



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