MACP-009821-CG0650

16dB 750hm Coupler 5 to 862MHz



M/A-COM Products

Rev. V1



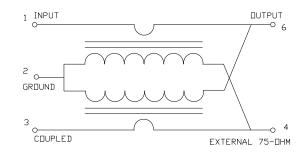
- Surface Mount •
- Coupling 16dB typical • •
- 260°C Reflow Compatible •
- RoHS Compliant, Lead free •
- RoHS version of EMDC-16-11-75
- Available on Tape and Reel. •

Description

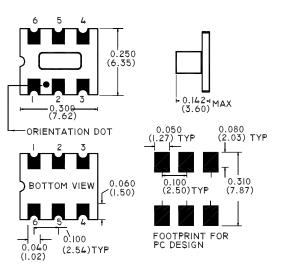
M/A-COM's MACP-009821-CG0650 is a high performance 75 Ohm Coupler, in a SM-101 low cost, surface mount package. The MACP-009821-CG0650 is designed for use in high volume CATV applications. Typical applications include Set-top Boxes, Network Interface Units, Broadband Amplifiers and Headend equipment.



Schematic



Case style: SM-101



Pin configuration

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

Note: Reference Application Note M513 for reel size information.

* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

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typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. M/A-COM Technology Solutions Inc. and its affiliates reserve the right to make

Dimensions in inches [mm] Tolerance: .xx ± .02, .xxx ± .010, unless otherwise stated

Ordering information

Part number	Description		
MACP-009821-CG0650	900 piece reel		
MACP-009821-CG06TB	Customer Test Board		

• 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 information.

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MACP-009821-CG0650



16dB 750hm Coupler 5 to 862MHz

M/A-COM Products Rev. V1

Electrical Specifications: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0$ dBm

Parameter	Frequency	Units	Min	Тур	Мах
Mainline Loss	5 - 862 MHz	dB	-	1.05	1.25
Coupling	5 - 44 MHz 45 MHz 862 MHz	dB dB dB		16 16 15.6	±0.5 ±0.2 ±0.3
Coupling Flatness	5 - 862 MHz	dB	-	-	±0.3
Isolation	5 - 862 MHz	dB	29	33	-
Input Return Loss	5 - 862 MHz	dB	18	25	-
Output Return Loss	5 - 862 MHz	dB	18	25	-
Coupled Return Loss	5 - 862 MHz	dB	18	25	-

Recommended Maximum Ratings^{1,2}

Parameter	Value		
RF power	250mW		
DC current	30mA		
Operating Temperature	-40°C to +85°C		
Storage Temperature	-40°C to +85°C		

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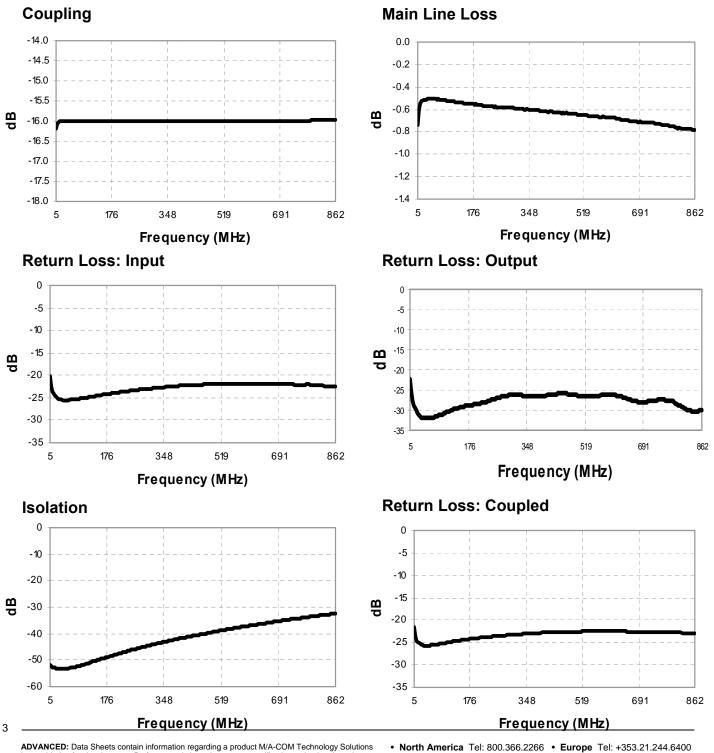
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MACP-009821-CG0650



16dB 75Ohm Coupler 5 to 862MHz M/A-COM Products Rev. V1

Typical Performance Curves: $T_A = 25^{\circ}C$, 0dBm, $Z_0 = 75\Omega$, $P_{in} = 0dBm$



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