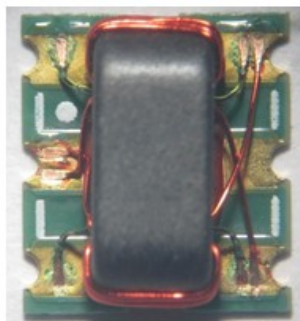


Features

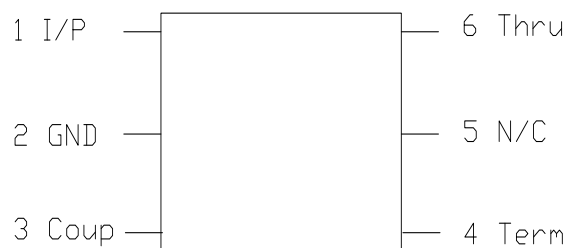
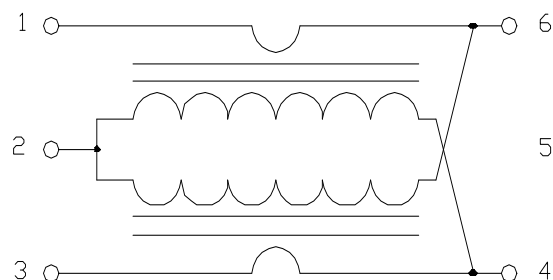
- Surface Mount
- Typical Coupling +18 dB
- 260°C Reflow Compatible
- Available on Tape and Reel,
- RoHS Compliant and Pb Free

Description

The MACP-007727-CI07B0 is an 18 dB broadband coupler in a low cost, surface mount package. It offers low loss, good isolation, good input/output matching and exceptional matching in return loss. Ideally suited for high volume CATV/Broadband applications.



Functional Schematic



Ordering Information^{1,2}

Part Number	Package
MACP-007727-CI07B0	1000 piece reel
MACP-007727-CT30TB	Test Board

1. Reference Application Note M513 for reel size information.
 2. All sample boards include x loose parts.

Pin Configuration

Pin No.	Function
1	Input
2	Ground
3	Coupled
4	Isolated (external 75 Ω termination)
5	No Connection

Broadband CATV, 18 dB Coupler 5 - 1200 MHz

Rev. V2

Electrical Specifications: $T_A = +25^\circ\text{C}$, $Z_0 = 75\ \Omega$

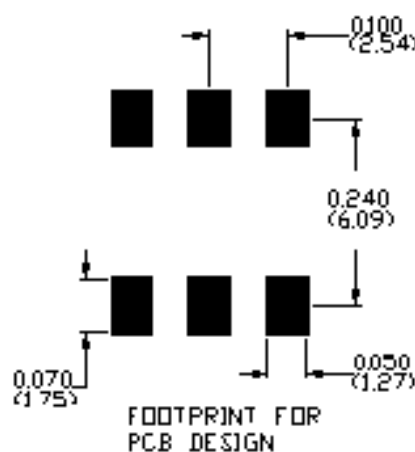
Parameter	Test Conditions	Units	Min.	Typ.	Max.
Coupling	5 - 40 MHz 40 - 1000 MHz 1000 - 1200MHz	dB	—	18.2 18.2 18.7	18.3 20.0 22.0
Main Line Loss	5 - 1000 MHz 1000 - 1200 MHz	dB	—	1.00 1.40	1.25 1.8
Input Return Loss	5 - 40 MHz 40 - 1000 MHz 1000 - 1200 MHz	dB	25.0 23.0 19.0	27.3 31.9 23.4	—
Output Return Loss	5 - 40 MHz 40 - 1000 MHz 1000 - 1200 MHz	dB	25.0 23.0 19.0	29.20 27.10 21.24	—
Isolation	5 - 1000 MHz 1000 - 1200 MHz	dB	23.0 20.0	28.90 26.25	—
Coupling Return Loss	5 - 1000 MHz 1000 - 1200 MHz	dB	15.0 10.0	21.15 16.70	—

Absolute Maximum Ratings^{3,4}

Parameter	Absolute Maximum
Input Power	250 mW
DC current	30 mA
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C

- Exceeding any one or combination of these limits may cause permanent damage to this device.
- MACOM does not recommend sustained operation near these survivability limits.

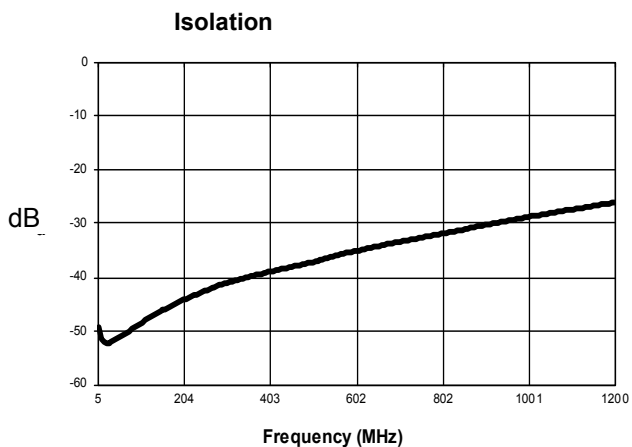
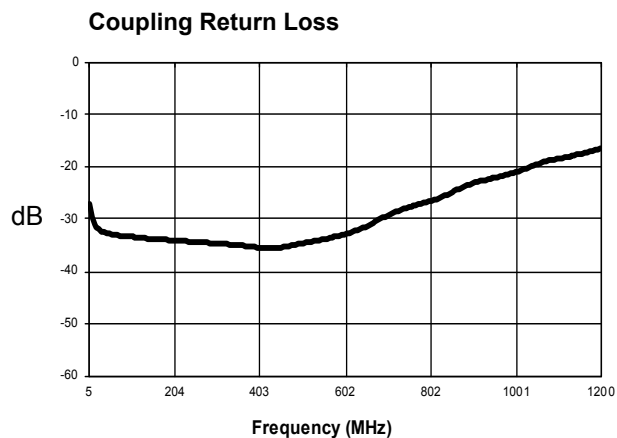
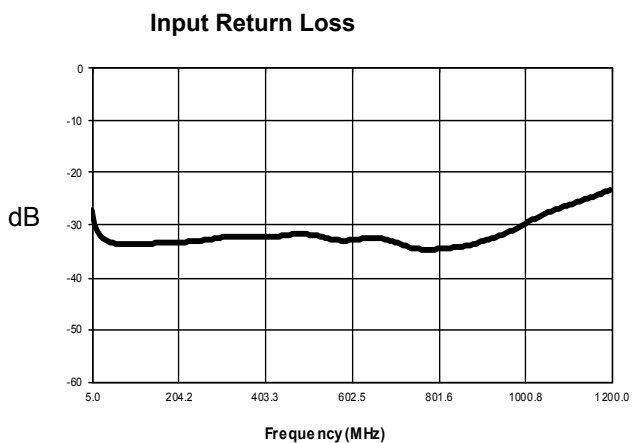
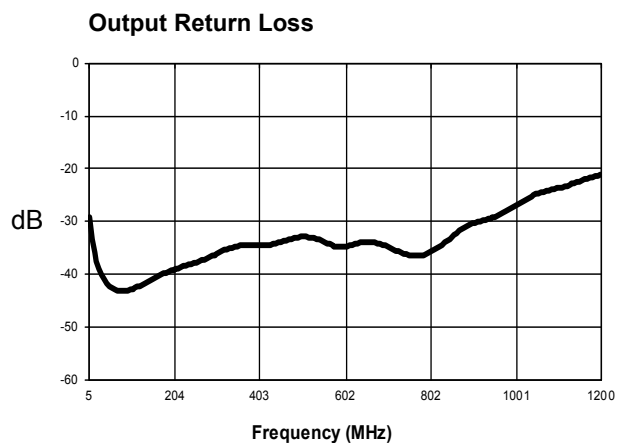
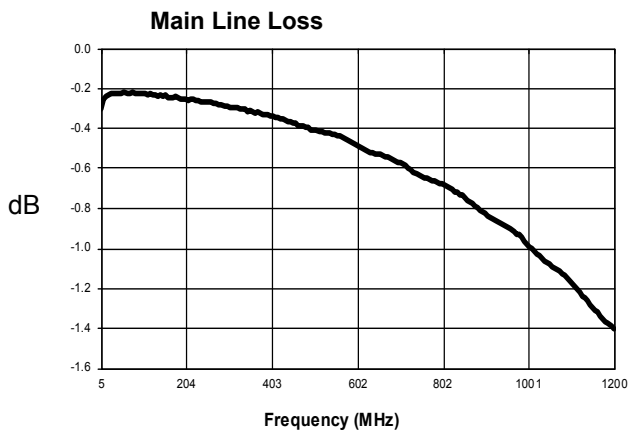
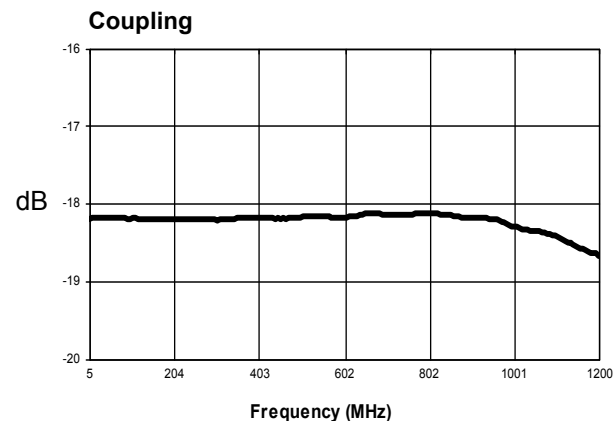
Recommended PCB Configuration



Broadband CATV, 18 dB Coupler 5 - 1200 MHz

Rev. V2

Typical Performance Curves $T_A = 25^\circ\text{C}$, $Z_0 = 75\ \Omega$



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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