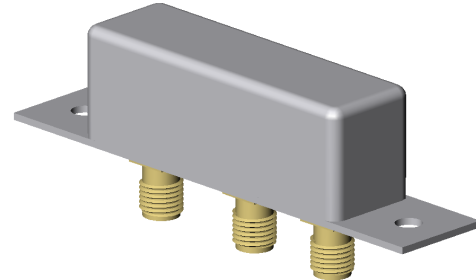


Features

- LO and RF: 1.8 to 6.2 GHz
- IF: DC to 2 GHz
- LO Drive +7 dBm (nominal)
- High Isolation 35 dB (Typ.)



Guaranteed Specifications¹

Characteristics	Test Conditions	Units	Min	Typ.	Max.
SSB Conversion Loss And SSB Noise Figure	fL & fR 1.8 to 4.2 GHz, fI 0.01 to 1 GHz fL & fR 1.8 to 4.2 GHz, fI 0.01 to 2 GHz fL & fR 1.8 to 6.2 GHz, fI 0.01 to 2 GHz	dB	—	7.0 dB 8.5 dB 9.0 dB	8.5 dB 9.5 dB 10.0 dB
Isolation	fL at R, fL 1.8 to 4.2 GHz fL at I, fL 1.8 to 4.2 GHz fL at R, fL 4.2 to 6.2 GHz fL at I, fL 4.2 to 6.2 GHz	dB	25 dB 15 dB 18 dB 15 dB	40 dB 25 dB 25 dB 20 dB	—
Conversion Compression	fR = 0 dBm fL at +7 dB	dB	—	1.0 dB	—

Notes:

1. Measure in a 50-Ohm system with nominal LO drive and downconverter application only, unless otherwise specified. The I-Port frequency range extends to DC for phase detection, pulse modulation, or attenuator applications, I-Port VSWR degrades from a 50-Ohm system at low IF frequencies.

Absolute Maximum Ratings

Storage Temperature	-65°C to +100°C
Operating Temperature	-54°C to +100°C
Peak RF Input Power	+17 dBm
Peak Input Current at 25°C	50 mA DC

Weight 31 gram (1.1 oz) max.

Double-Balanced Mixer

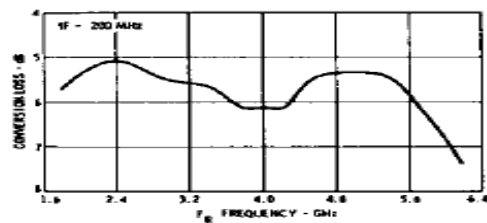
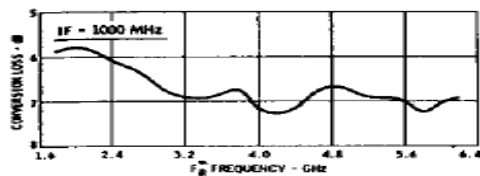
Rev. V2

Typical Performance Curves at 25°C

Conversion Loss

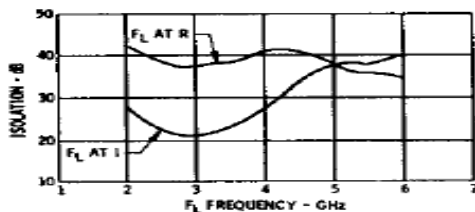


Conversion Loss vs. Drive Level: Conversion loss in an SSB system is a function of drive level (f_L with f_L and f_R at approximately 3 GHz and f_R level at -6 dBm).



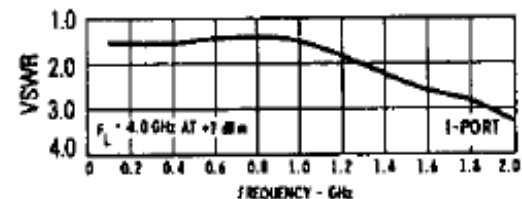
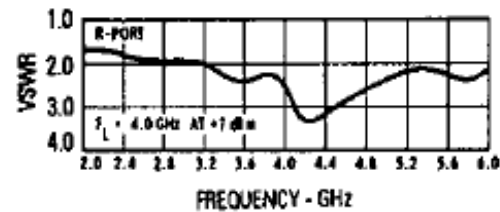
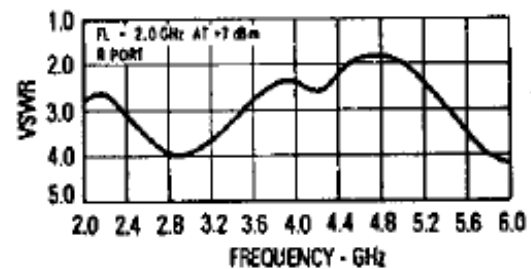
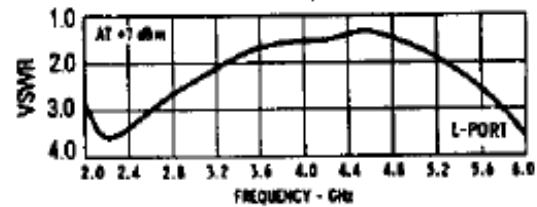
Conversion Loss vs. Input Frequency: The frequency ordinate refers to the report (f_R) with f_L at 200 MHz and 1000 MHz, data plotted with f_L at +7 dBm.

Isolation



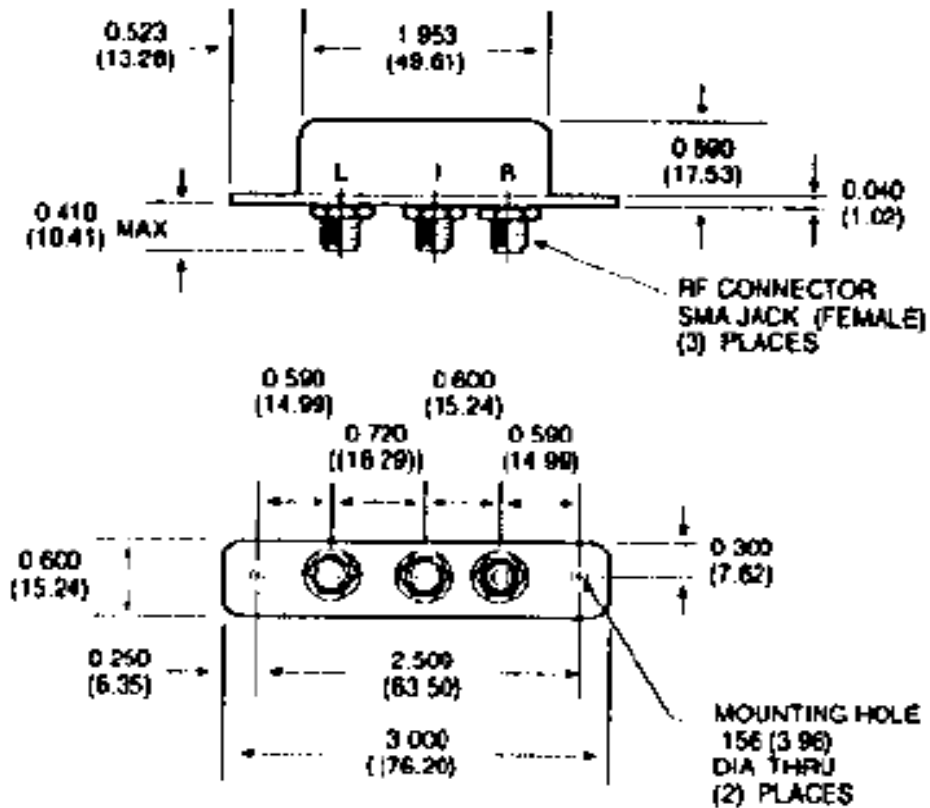
Isolation vs. Frequency: Level of the f_L signal fed through to the R- and I-ports with respect to the level of the f_L signal at the L-port.

VSWR



VSWR vs. Frequency: VSWR of the L-, I- and R-ports in a 50-ohm system. Some variation in the R-port VSWR will occur as a function of the L-port frequency as shown above. Curves for R-port VSWR are plotted for L-port frequencies of 2 GHz and 4 GHz. A plot of I-port VSWR is also shown with f_L at 4 GHz.

Outline Drawing: M1H



DIMENSIONS ARE IN INCHES (MILLIMETERS)
 ± 015 (.08) UNLESS OTHERWISE SPECIFIED

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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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