

**MODEL MD-413****DOUBLE BALANCED MIXER**

RF. LO 0.5-500 MHz IF DC-500 MHz

NEW

LO Power +17 dBm

Relay Header

MCL Model SRA-1H Replacement

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	RF, LO Ports		0.5 - 500 MHz
	IF Port		DC - 500 MHz
Conversion Loss	0.5 - 1.0 MHz		8.5 dB Max
	5 - 250 MHz		7.5 dB Max
	250 - 500 MHz		8.5 dB Max
Isolation	LO to RF	0.5 - 5.0 MHz	45 dB Min
		5 - 250 MHz	30 dB Min
		250 - 500 MHz	25 dB Min
	LO to IF	0.5 - 5.0 MHz	35 dB Min
		5 - 250 MHz	30 dB Min
		250 - 500 MHz	20 dB Min
	RF to IF	0.5 - 5.0 MHz	30 dB Min
		5 - 250 MHz	25 dB Min
		250 - 500 MHz	25 dB Min

Operating Characteristics**Impedance** 50 Ohms Nominal**Maximum Input**

Total Power	200 mW Max
IF Port Current	40 mA Max
DC Polarity	Neg
DC Offset	≤ 2.0 mV Typ

RF Input for 1dB Compression +9.0 dBm Typ**RF Input for 1 dB Desensitization** +7.0 dBm Typ**SSB Noise Figure** Within 1.0 dB of Conversion**Two-Tone IM Ratio**

(with -10 dBm input, each tone and 50 & 60 MHz IF)	58 dB Typ at 160 MHz
	50 dB Typ at 500 MHz

Package Type (RH-1)

(See page 472 for physical dimensions.)

Pin Configuration RF; P1, LO; P8, IF; P3, P4**
P2 = Case ground.

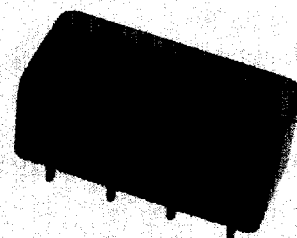
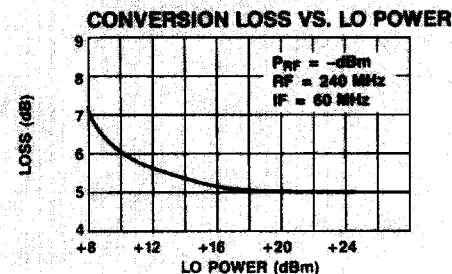
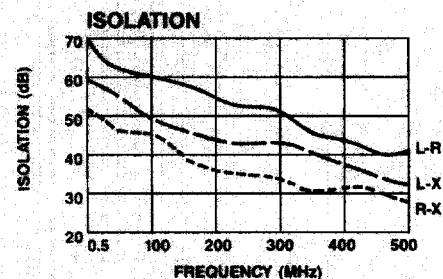
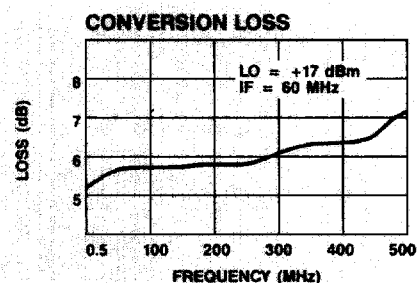
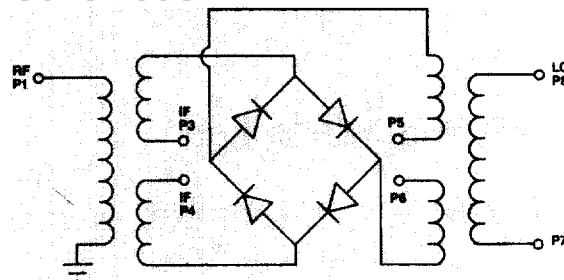
*All specifications apply when operated at +17 dBm available LO power with 50 ohm source and load impedance, and with pins 5, 6 & 7 grounded.

**Pins 3 & 4 must be connected together externally.

Ordering Information

Model No.	Connectors	Unit Price (1-24 Units)
MD-413	PIN	\$22.90

Delivery is from stock.

**Typical Performance****Schematic****ANZAC****Make the Connection...**

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Adams Russell
COMPONENTS GROUP

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For Ordering Information, Call (617) 273-3333