

**NEW****MODEL MD-416****DOUBLE BALANCED MIXER**

RF, LO 10-3000 MHz IF 10-1000 MHz

LO Power +17 dBm

Relay Header

MCL Model SRA-11H Replacement

**Guaranteed Specifications\***

(From -55°C to +85°C)

<b>Frequency Range</b>	RF, LO Ports	10 - 3000 MHz	
	IF Port	10 - 1000 MHz	
<b>Conversion Loss</b>	10 - 1500 MHz	10 dB Max	
	1500 - 3000 MHz	12 dB Max	
<b>Isolation</b>	LO to RF	10 - 100 MHz	20 dB Min
		100 - 1500 MHz	18 dB Min
		1500 - 3000 MHz	16 dB Min
	LO to IF	10 - 100 MHz	20 dB Min
		100 - 1500 MHz	18 dB Min
		1500 - 3000 MHz	16 dB Min
RF to IF	10 - 100 MHz	15 dB Min	
	100 - 1500 MHz	12 dB Min	
	1500 - 3000 MHz	8 dB Min	

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

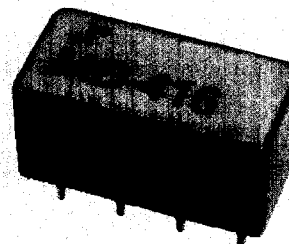
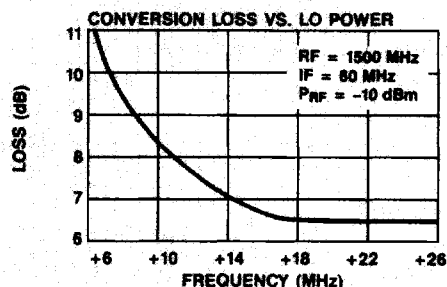
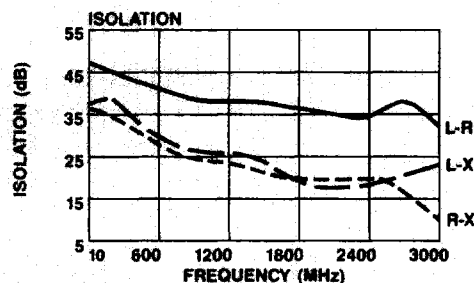
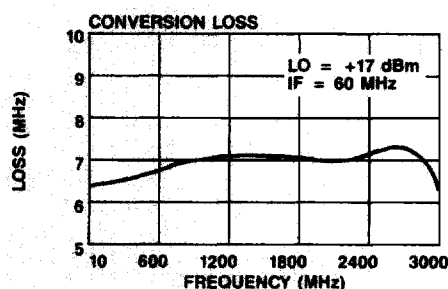
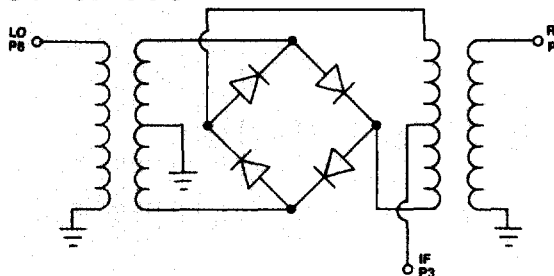
Total Power	200 mW Max
IF Port Current	40 mA Max
DC Polarity	Neg
DC Offset	≤ 4.0 mV Typ

**RF Input for 1dB Compression** +10.0 dBm Typ**RF Input for 1 dB Desensitization** +9.0 dBm Typ**SSB Noise Figure** Within 1.0 dB of Conversion

<b>Two-Tone IM Ratio</b>	60 dB Typ at 160 MHz
(with -10 dBm input, each ton and 50 & 60 MHz IF)	58 dB Typ at 1000 MHz
	52 dB Typ at 2900 MHz

**Package Type** (RH-1)  
(See page 472 for physical dimensions.)**Pin Configuration** RF; P1, LO; P8, IF; P3  
Case and all other pins are ground.

\*All specifications apply when operated at +17 dBm available LO power with 50 ohm source and load impedance.

**Typical Performance****Schematic****Ordering Information**

Model No.	Connectors	Unit Price (1-24 Units)
MD-416	PIN	\$49.90

Delivery is from stock.

**ANZAC****Make the Connection...****Adams Russell**

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COMPONENTS GROUP

For Technical Information, Call (617) 273-3333

For Ordering Information, Call (617) 273-3333