



MODELS
MD-/MDC-174

HIGH LEVEL TERMINATION
INSENSITIVE MIXER 1-2800 MHz

Intermodulation Ratio Insensitive to Port Mismatches

Typical Midband VSWR < 2.0:1

LO Drive to +27 dBm

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	RF, LO Ports	1-2800 MHz	
	IF Port	1-2000 MHz	
Conversion Loss**		MDC-174	MD-174
	5-1200 MHz	7.5 dB Max	7.5 Max
	5-2000 MHz	8.5 dB Max	8.0 Max
	1-2800 MHz	9.5 dB Max	9.0 Max
Isolation	LO to RF	(1-1000 MHz)	30 dB Min
		(1-2000 MHz)	20 dB Min
		(1-2800 MHz)	15 dB Min
	LO to IF	(1-1500 MHz)	30 dB Min
		(1-2800 MHz)	25 dB Min
	RF to IF	(5-1000 MHz)	25 dB Min
(1-2000 MHz)		20 dB Min	
(1-2800 MHz)		15 dB Min	

Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Input	
Total Power	0.5 Watt Max @ 25°C Derated to 85°C @ 3.2 mW/°C
LO Power	+26 dBm Max
RF Input	
1 dB Compression	+16 dBm Typical
1 dB Desensitization	+14 dBm Typical
SSB Noise Figure	Within 1 dB of Conversion Loss Max
Typical Two Tone IM Ratio (with 0 dBm input, each tone and 10 MHz IF)	60 dB @ 100 MHz 55 dB @ 1000 MHz 52 dB @ 2800 MHz
Package Type	MD-174 Flatpack (FP-3) MDC-174 Connectorized (C-9)

(See pages 474 and 482 for physical dimensions.)

Environmental

These units are designed to meet the environmental and screening requirements of Table 1A, page 496 of the Adams-Russell catalog.

Pin Configuration RF; P10, LO; P6, IF; P5.
Case and all other pins are ground.

* All specifications apply when operated at +20 dBm available LO power with 50 ohm source and load impedance

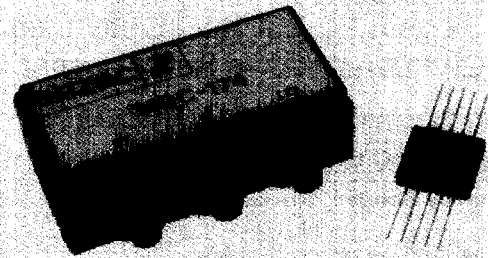
** Conversion loss for 60 MHz IF.

This product contains elements protected by United States Patent Number 4,224,572.

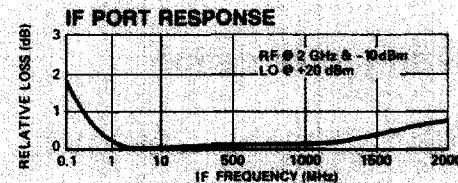
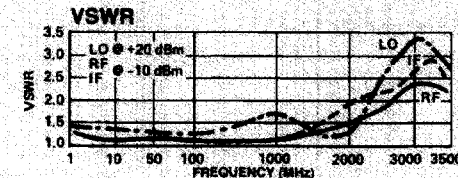
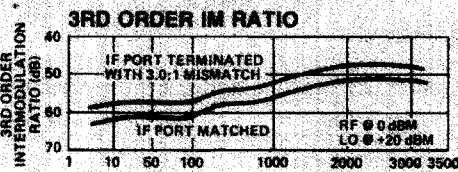
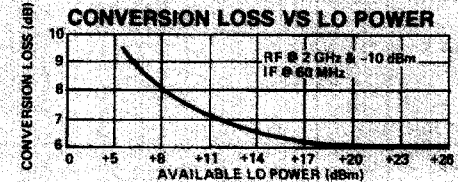
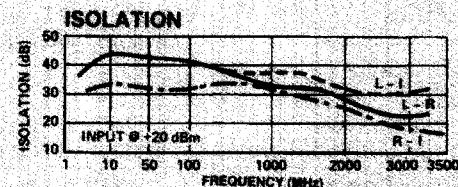
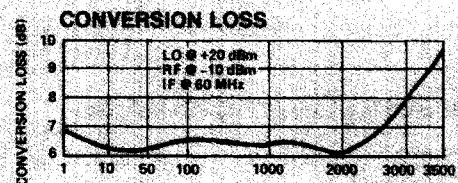
Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
MD-174	9199	Pin	\$165
MDC-174	9194	SMA	252

Delivery is from stock.



Typical Performance



ANZAC

Make the Connection...

80 Cambridge Street, Burlington, MA 01803 Fax (617) 273-1921

Adams Russell
COMPONENTS GROUP

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For Ordering Information, Call (617) 273-3333