



MODELS
MD-/MDC-169

TERMINATION INSENSITIVE
MIXER 1 MHz - 3.5 GHz

Intermodulation Ratio is Insensitive to
Port Mismatches

Typical Midband VSWR < 2.0:1

35 dB Typical Midband Isolation

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	RF, LO Ports	0.001 - 3.5 GHz	
	IF Port	5-1500 MHz	
Conversion Loss	5-1000 MHz	7 dB Max	
	5-3000 MHz	8 dB Max**	
	1-3500 MHz	10 dB Max	
Isolation	LO to RF	(5-1000 MHz)	30 dB Min
		(1-3500 MHz)	20 dB Min
	LO to IF	(5-1000 MHz)	30 dB Min
		(1-3500 MHz)	20 dB Min
	RF to IF	(10-500 MHz)	30 dB Min
		(1-3000 MHz)	20 dB Min
(1-3500 MHz)		18 dB Min	

Operating Characteristics

Impedance 50 Ohms Nominal

Maximum Input

Total Power 350 mW Max @ 25°C

Derated to 85°C @ 3.2 mW/°C

LO Power +24 dBm Max

RF Input

1 dB Compression +7 dBm Typical

1 dB Desensitization +5 dBm Typical

SSB Noise Figure Within 1 dB of Conversion
Loss Max

Typical Two Tone IM 55 dB @ 10 MHz

Ratio: (with -10 dBm 58 dB @ 500 MHz

input, each tone and 56 dB @ 3000 MHz

60 MHz IF)

3rd Order Intermodulation 3 dB Typical @
Ratio Degradation IF VSWR 3:1

Package Type MD-169 Flatpack (FP-2)

MDC-169 Connectorized (C-7)

(See pages 474 and 481 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; P8, LO; P5, IF; P4.

Case and all other pins are ground.

* All specifications apply when operated at +10 dBm available LO power with 50 ohm source and load impedance.

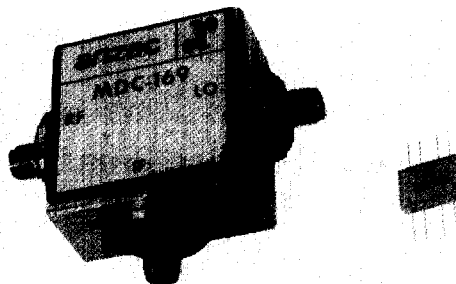
** 8.5 dB for MDC-169.

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

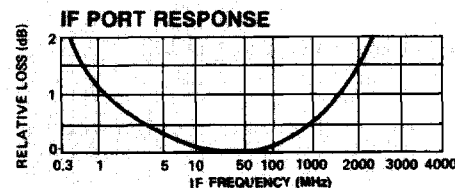
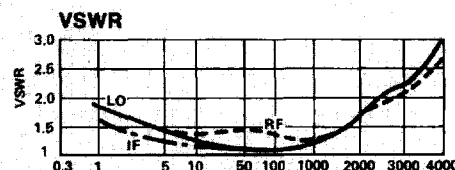
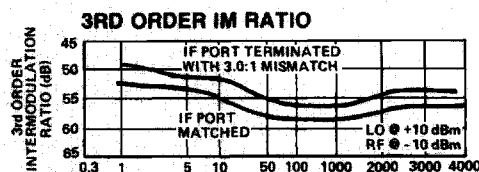
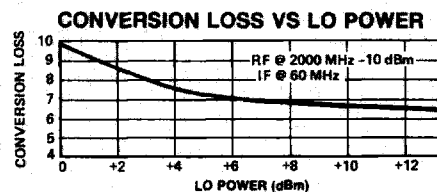
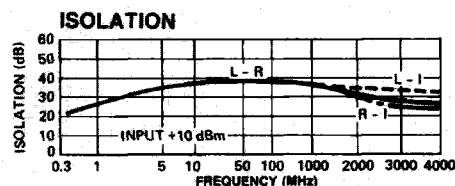
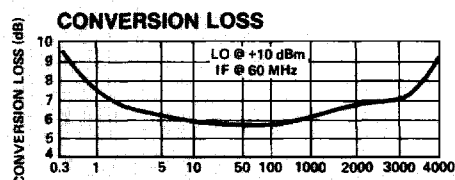
Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
MD-169	9099	Pin	\$134
MDC-169	9094	SMA	221

Delivery is from stock



Typical Performance



ANZAC

Make the Connection...

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Adams Russell
COMPONENTS GROUP

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For Ordering Information, Call (617) 273-3333