



MODEL
M-171/M-171C

HIGH IF DOUBLE-BALANCED
MICROWAVE MIXER 4.0-18.0 GHz

5.3 dB Typical Midband Conversion Loss
30 dB Typical Midband L-R Isolation

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	RF, LO Ports	4.0-18.0 GHz
	IF Port	DC-4.0 GHz
Conversion Loss**	4.0-18 GHz	7.5 dB Max
Isolation	LO to RF (4.0-18.0 GHz)	22 dB Min
	LO to IF (4.0-7.0 GHz)	20 dB Min
	(7.0-18.0 GHz)	12 dB Min
	RF to IF (4.0-9.0 GHz)	17 dB Min
	(9.0-18.0 GHz)	20 dB Min

Operating Characteristics

Impedance 50 Ohms Nominal

Maximum Input
Total Power 300 mW Max @ 25°C
Derated 3.2 mW/°C

RF Input
1 dB Compression +2.0 dBm Typical
1 dB Desensitization 0 dBm Typical

SSB Noise Figure Within 1 dB of Conversion Loss Max

3rd Order Input Intercept
4.0 GHz +15 dBm Typical
10.0 GHz +12 dBm Typical
18.0 GHz +16 dBm Typical

Package Type M-171 Flatpack (FP-10)
M-171C Connectorized (C-3)
(See pages 475 and 481 for physical dimensions.)

Environmental

These units are designed to meet the environmental and screening requirements of Table 1C, page 498 of the Adams-Russell catalog.

Pin Configuration RF; P3, LO; P1, IF; P2.
Case ground.

*All specifications apply when operated at +7 dBm available LO power with 50 ohm source and load impedance.

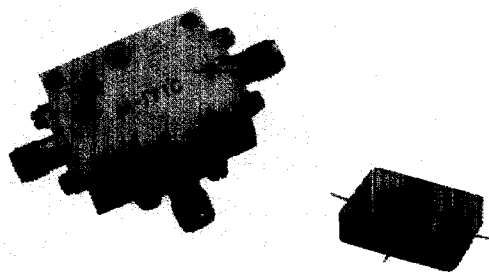
**For IF frequencies of 500 MHz and an RF of -10 dBm or lower.

Formerly Anzac Model MD-171, MDC-171

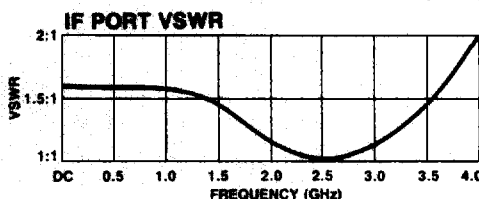
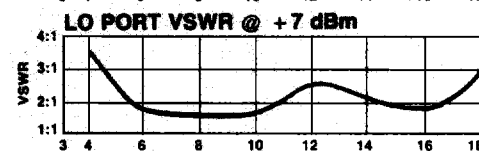
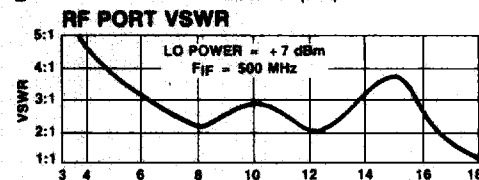
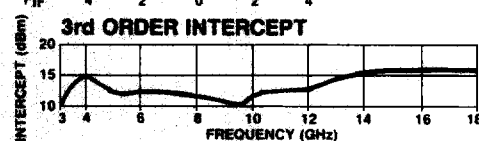
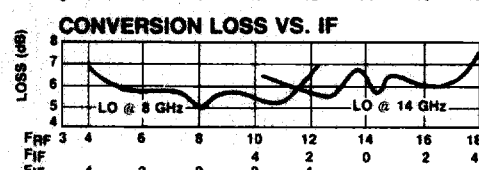
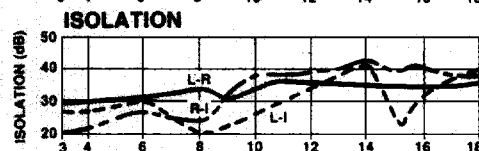
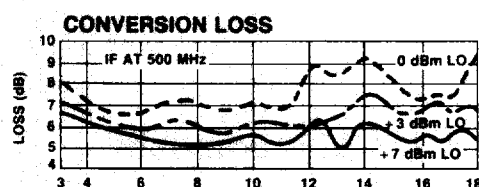
Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
M-171	9409	Pin	\$330
M-171C	9404	SMA	417

Delivery is from stock.



Typical Performance



Make the Connection...

161 E. Industry Court Deer Park, NY 11729 Fax (516) 242-1222

Adams Russell
COMPONENTS GROUP

For Technical Information, Call (516) 242-1100

For Ordering Information, Call (617) 273-3333