


MODELS
M-177/M-177C
DOUBLE-BALANCED
MICROWAVE MIXER 2.0-8.0 GHz

B-05-11
T-77-09

5 dB Typical Midband Conversion Loss
 25 dB Typical Midband L-R Isolation
 Operable with Starved LO

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	RF, LO Ports		2.0-8.0 GHz
	IF Port (3 dB BW)		DC-500 MHz
Conversion Loss**	2.0-4.0 GHz		8 dB Max
	4.0-8.0 GHz		6.5 dB Max
Isolation	LO to RF	(2.0-4.5 GHz)	12 dB Min
		(4.5-8.0 GHz)	20 dB Min
	LO to IF	(2.0-4.0 GHz)	10 dB Min
		(4.0-8.0 GHz)	15 dB Min
	RF to IF	(2.0-8.0 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	+3 dBm Typical
1 dB Desensitization	0 dBm Typical

SSB Noise Figure	Within 1 dB of Conversion Loss Max
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3rd Order Input Intercept

2.0 GHz	+9 dBm Typical
4.0 GHz	+6 dBm Typical
8.0 GHz	+9 dBm Typical

Package Type	M-177 Flatpack (FP-10)
	M-177C 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.
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*All specifications apply when operated at +7 dBm available LO power with 50 ohm source and load impedance.

**For IF frequencies of DC-100 MHz and an RF of -10 dBm or lower.

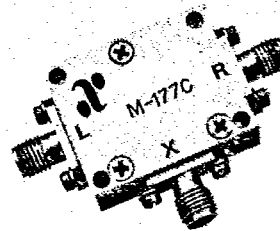
This product contains elements protected by United States Patent Number 4,224,572.

Formerly Anzac Model MD-177, MDC-177

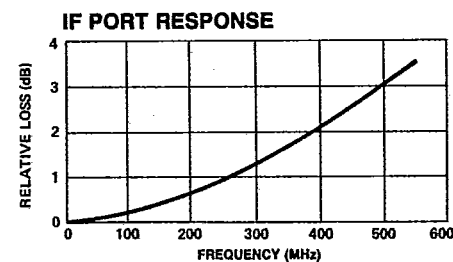
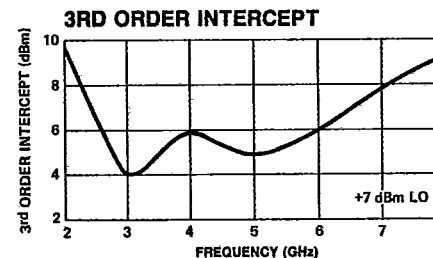
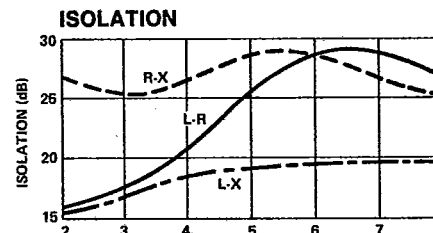
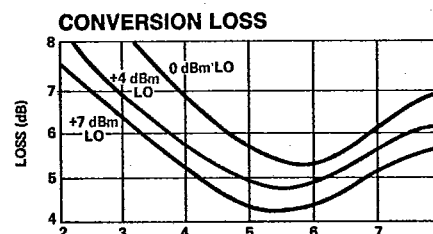
Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
M-177	9209	Pin	\$201
M-177C	9204	SMA	288

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

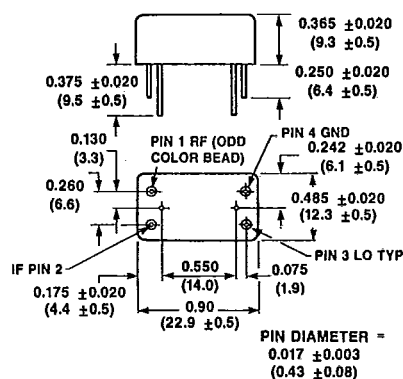
UNLESS OTHERWISE NOTED:

.XXX = ± 0.010 , .XX = ± 0.020 (.X = ± 0.3), (.XX = ± 0.5)

DIMENSIONS IN () ARE IN MM.

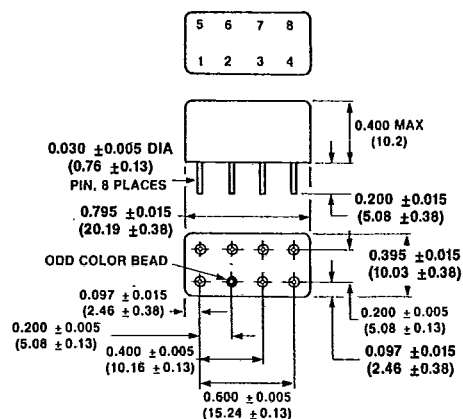
MECHANICAL DATA

RH-2



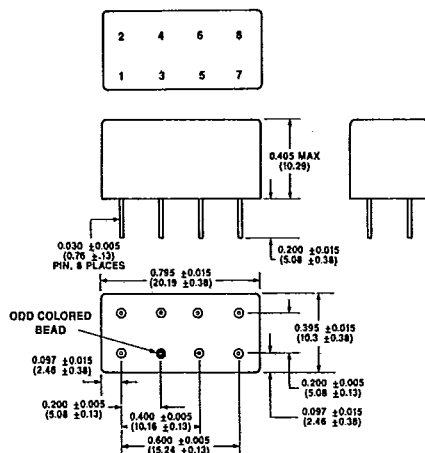
WEIGHT (APPROX.): 0.23 OUNCES 6.5 GRAMS

RH-3



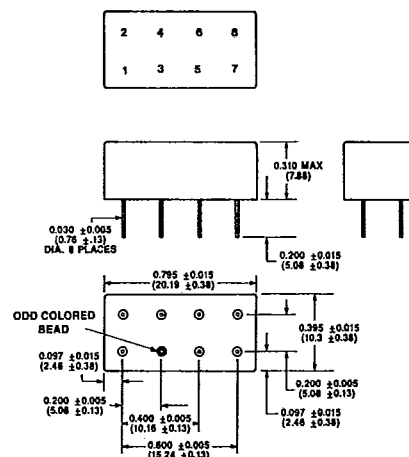
WEIGHT (APPROX.): 0.23 OUNCES 6.5 GRAMS

RH-4



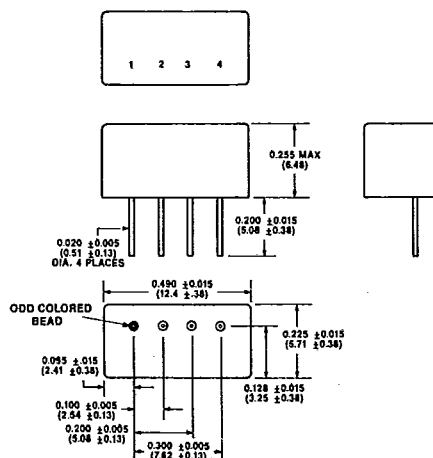
WEIGHT (APPROX.): 0.23 OUNCES 6.5 GRAMS

RH-5



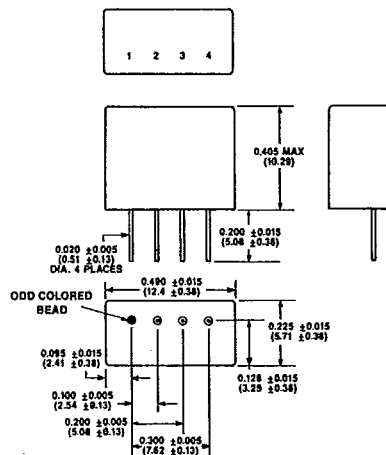
WEIGHT (APPROX.): 0.16 OUNCES 4.4 GRAMS

RH-6



WEIGHT (APPROX.): 0.05 OUNCES 1.5 GRAMS

RH-7

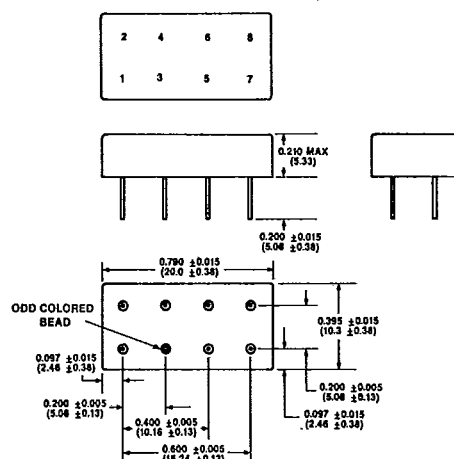


WEIGHT (APPROX.): 0.04 OUNCES 1.3 GRAMS

MECHANICAL DATA

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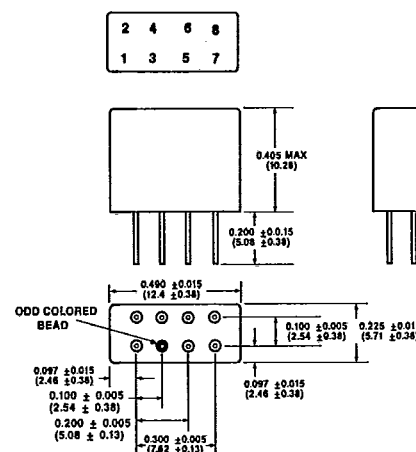
RH-8



WEIGHT (APPROX.): 0.13 OUNCES 3.5 GRAMS

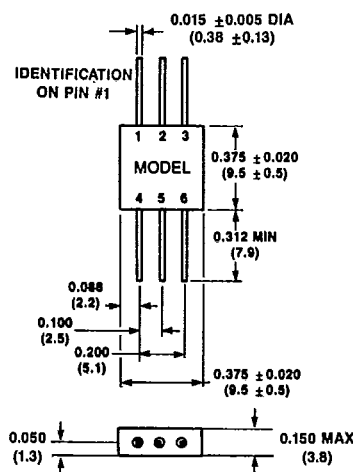
RH-9

T-90-20



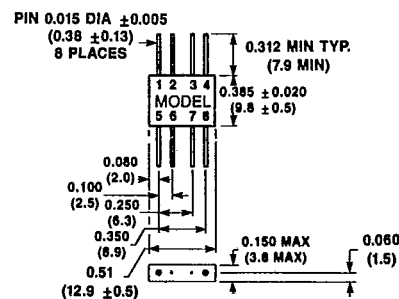
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FP-1



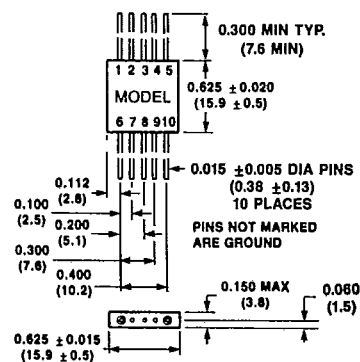
WEIGHT (APPROX.): 0.07 OUNCES 2 GRAMS

FP-2



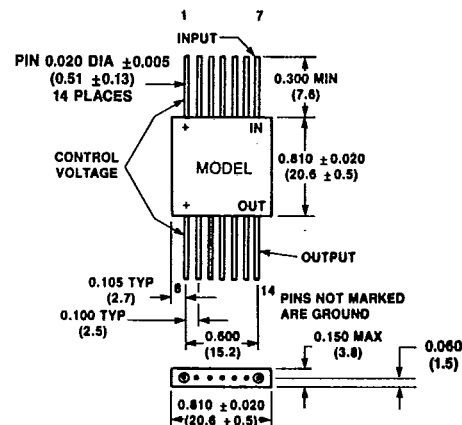
WEIGHT (APPROX.): 0.09 OUNCES 2.5 GRAMS

FP-3



WEIGHT (APPROX.): 0.12 OUNCES 3.4 GRAMS

FP-4



WEIGHT (APPROX.): 0.21 OUNCES 6 GRAMS

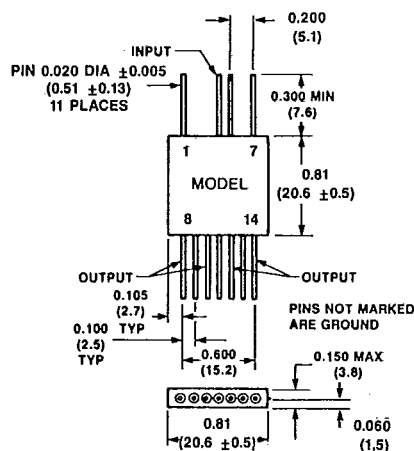
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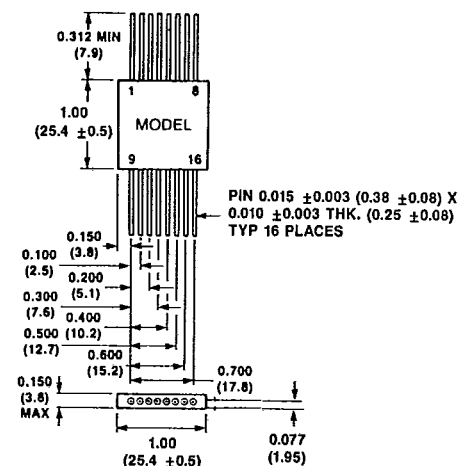
MECHANICAL DATA

FP-5



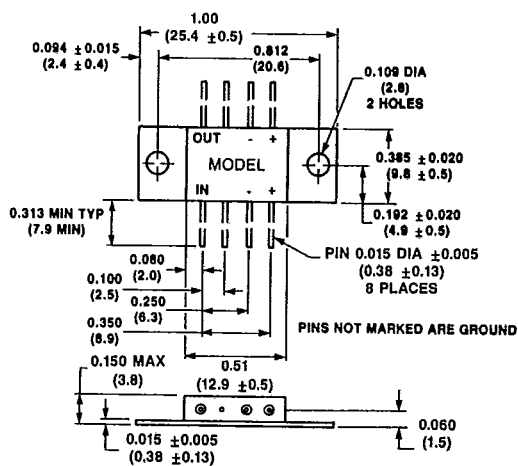
WEIGHT (APPROX.): 0.21 OUNCES 6 GRAMS

FP-6



WEIGHT (APPROX.): 0.24 OUNCES 6.8 GRAMS

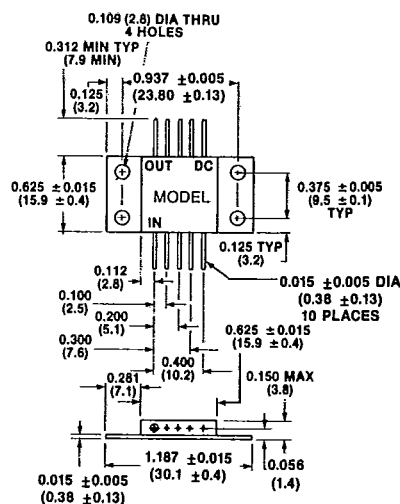
FP-7



(NOTE: AM-123 POSITIVE VOLTAGE ONLY.)

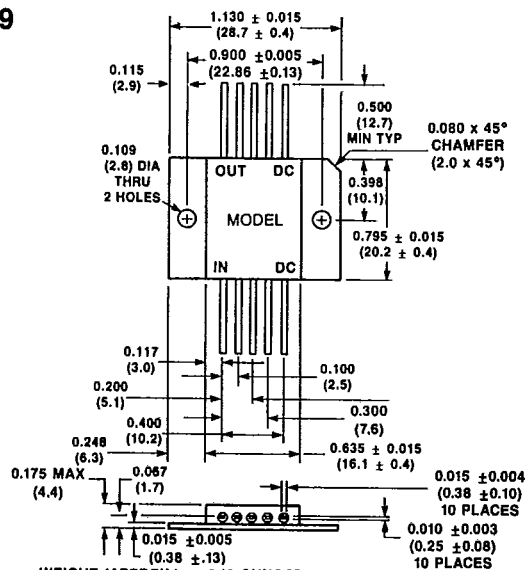
WEIGHT (APPROX.): 0.09 OUNCES 2.5 GRAMS

FP-8



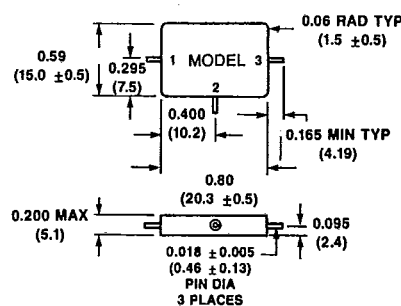
WEIGHT (APPROX.): 0.17 OUNCES 4.8 GRAMS

FP-9



WEIGHT (APPROX.): 0.18 OUNCES 5 GRAMS

FP-10



WEIGHT (APPROX.): 0.35 OUNCES 10 GRAMS