

B-05-11
T-77-09**MODELS**
M-167/M-167C**HIGH IF DOUBLE-BALANCED**
MICROWAVE MIXER 0.5-18.0 GHz

8 dB Typical Midband Conversion Loss

22 dB Typical Midband L-R Isolation

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	RF, LO Ports		0.5-18.0 GHz
	IF Port		0.5-8.0 GHz
Conversion Loss**	0.5-18 GHz		10.5 dB Max
	1-6 GHz		9.0 dB Max
	6-16 GHz		10.0 dB Max
Isolation	LO to RF	(0.5-1 GHz)	13 dB Min
		(1-18 GHz)	15 dB Min
	LO to IF	(0.5-1 GHz)	12 dB Min
		(1-13 GHz)	18 dB Min
		(13-18 GHz)	15 dB Min
	RF to IF	(0.5-1 GHz)	14 dB Min
		(1-18 GHz)	16 dB Min

Operating Characteristics**Impedance** 50 Ohms Nominal**Maximum Input**Total Power 600 mW Max @ 25°C
Derated 6.4 mW/°C**RF Input**

1 dB Compression 9.5 dBm Typical

1 dB Desensitization 9 dBm Typical

SSB Noise FigureWithin 1 dB of Conversion
Loss Max**3rd Order Input Intercept**

2.0 GHz +20 dBm Typical

8.0 GHz +20 dBm Typical

18.0 GHz +18 dBm Typical

Package Type

M-167 Flatpack (FP-10)

M-167C 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 +13 dBm available LO power with 50 ohm source and load impedance.

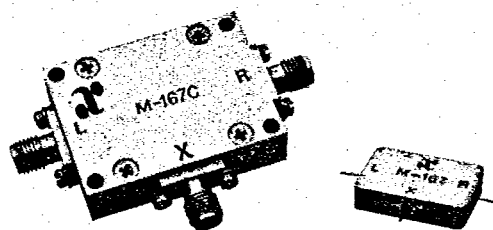
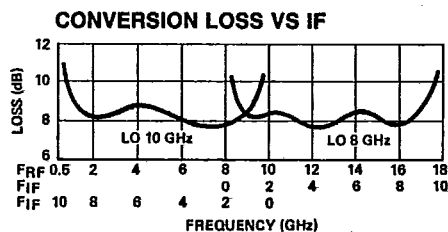
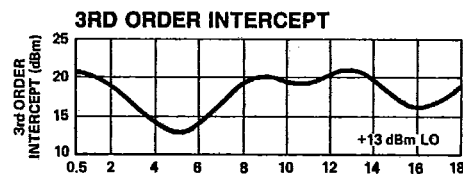
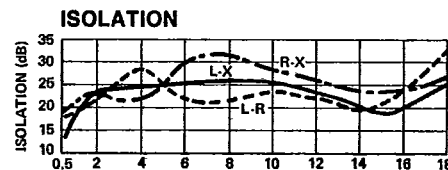
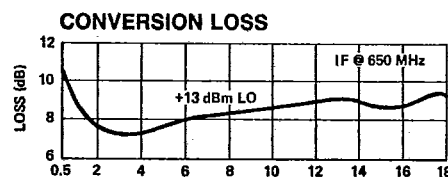
**For IF frequencies of 650 MHz and an RF of -10 dBm or lower.

Formerly Anzac Model MD-167, MDC-167

Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
M-167	9359	Pin	\$393
M-167C	9354	SMA	480

Delivery is from stock.

**Typical Performance****RHG****Make the Connection...****Adams Russell**
COMPONENTS GROUP

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

For Technical Information, Call (516) 242-1100

For Ordering Information, Call (617) 273-3333

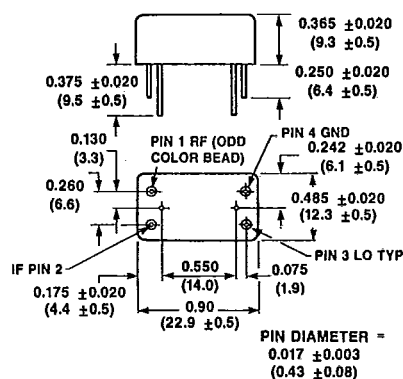
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DIMENSIONS IN () ARE IN MM.

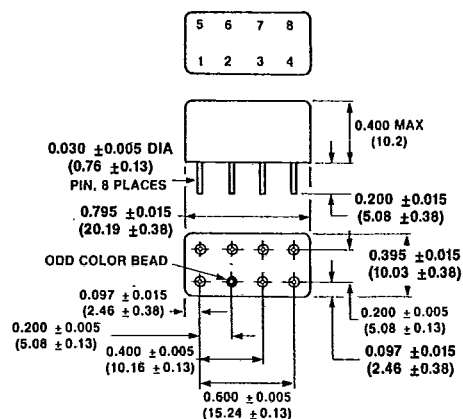
MECHANICAL DATA

RH-2



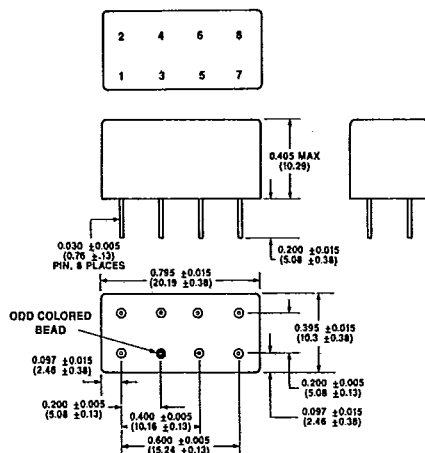
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RH-3



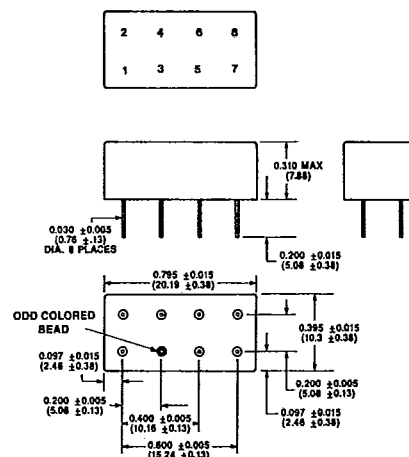
WEIGHT (APPROX.): 0.23 OUNCES 6.5 GRAMS

RH-4



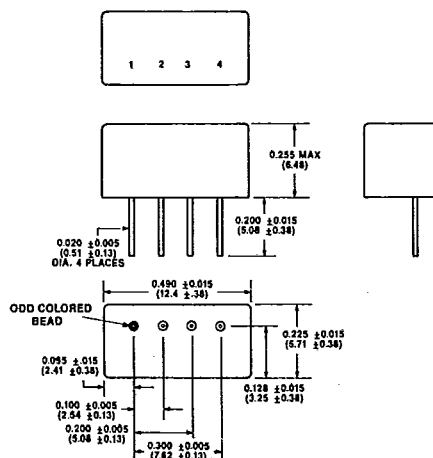
WEIGHT (APPROX.): 0.23 OUNCES 6.5 GRAMS

RH-5



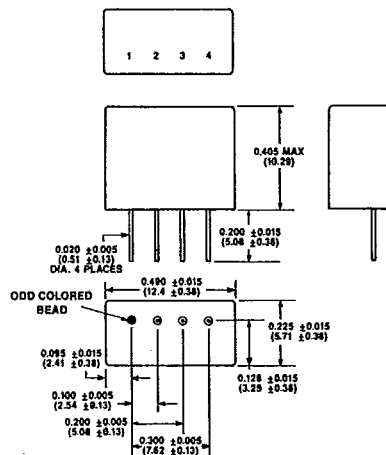
WEIGHT (APPROX.): 0.16 OUNCES 4.4 GRAMS

RH-6



WEIGHT (APPROX.): 0.05 OUNCES 1.5 GRAMS

RH-7

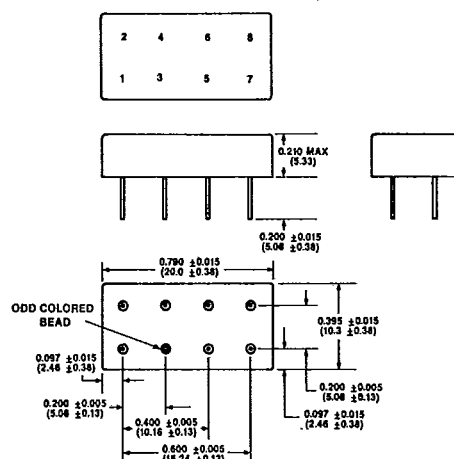


WEIGHT (APPROX.): 0.04 OUNCES 1.3 GRAMS

MECHANICAL DATA

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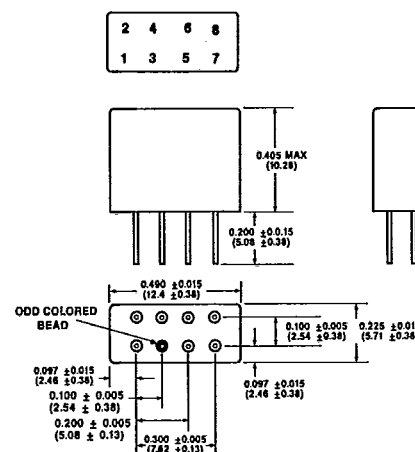
RH-8



WEIGHT (APPROX.): 0.13 OUNCES 3.5 GRAMS

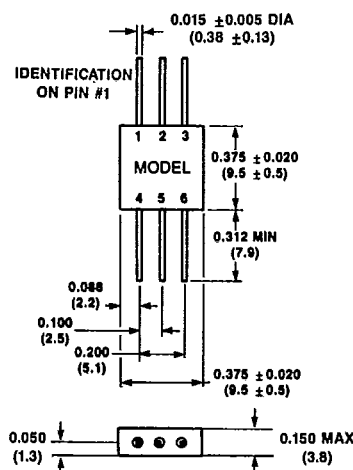
RH-9

T-90-20



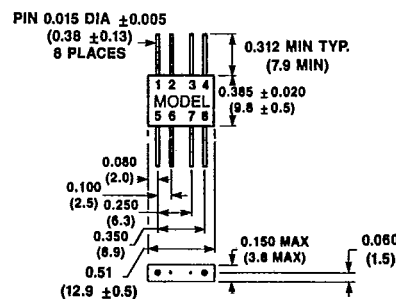
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FP-1



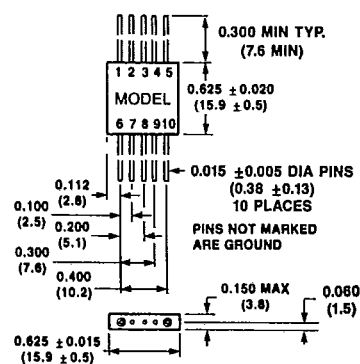
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FP-2



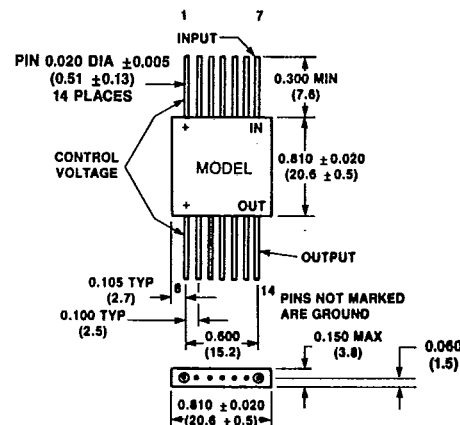
WEIGHT (APPROX.): 0.09 OUNCES 2.5 GRAMS

FP-3



WEIGHT (APPROX.): 0.12 OUNCES 3.4 GRAMS

FP-4



WEIGHT (APPROX.): 0.21 OUNCES 6 GRAMS

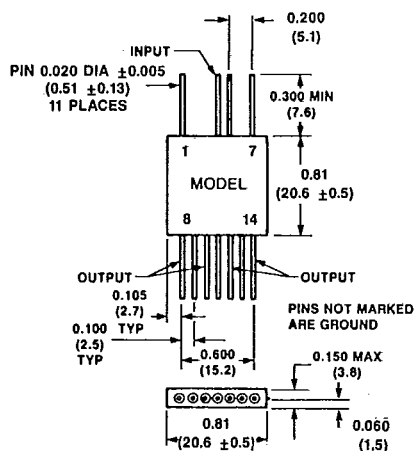
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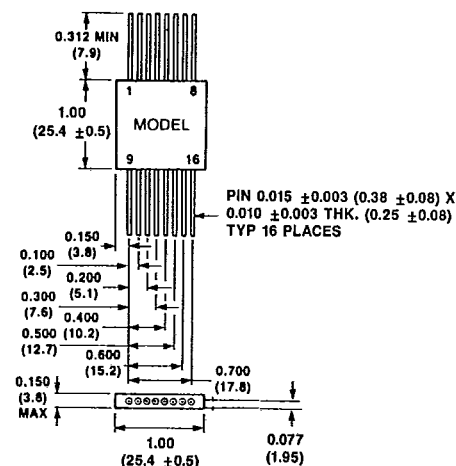
MECHANICAL DATA

FP-5



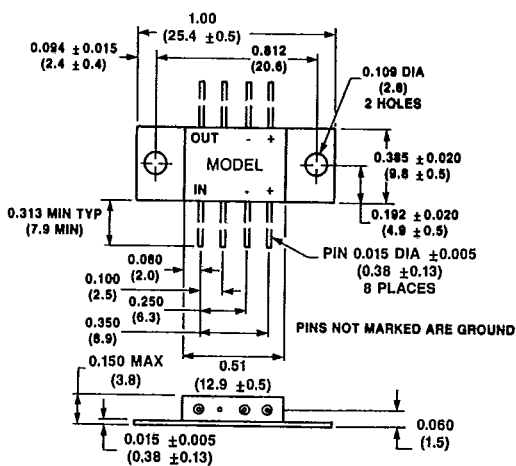
WEIGHT (APPROX.): 0.21 OUNCES 6 GRAMS

FP-6



WEIGHT (APPROX.): 0.24 OUNCES 6.8 GRAMS

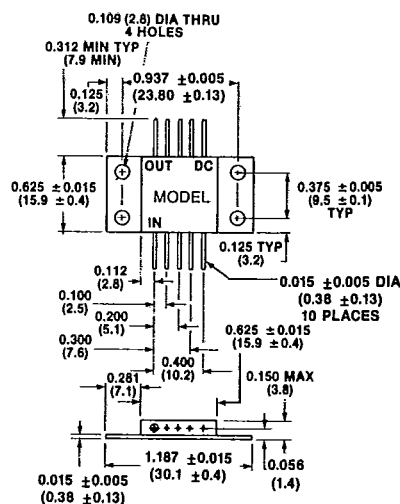
FP-7



(NOTE: AM-123 POSITIVE VOLTAGE ONLY.)

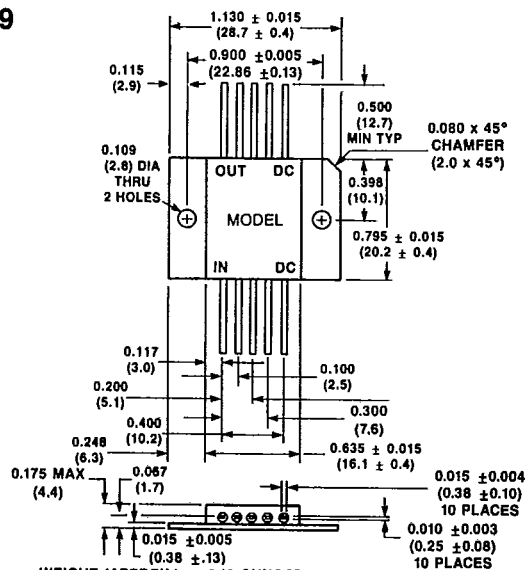
WEIGHT (APPROX.): 0.09 OUNCES 2.5 GRAMS

FP-8



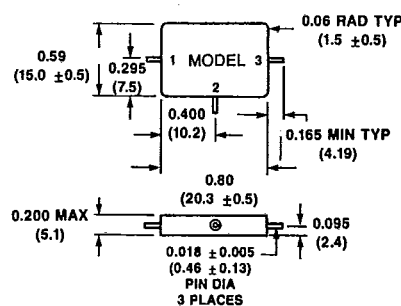
WEIGHT (APPROX.): 0.17 OUNCES 4.8 GRAMS

FP-9



WEIGHT (APPROX.): 0.18 OUNCES 5 GRAMS

FP-10



WEIGHT (APPROX.): 0.35 OUNCES 10 GRAMS