



MODELS
PM-101/102/103

BIPHASE MODULATORS
10-750 MHz

Variety of Drivers: PM-101; Current,
PM-102; ECL, PM-103; TTL
Phase Deviation – 1° Typical
TO-8 Case

Guaranteed Specifications*

(From –55°C to +85°C)

Frequency Range	10-750 MHz	
Insertion Loss	10-500 MHz	3.0 dB Max
	10-750 MHz	3.5 dB Max
VSWR	50-500 MHz	1.3:1 Max
	10-750 MHz	1.6:1 Max
Amplitude Balance	0.2 dB Max	
Phase Deviation	10-500 MHz	2° Max
	10-750 MHz	3° Max

Operating Characteristics

Impedance	50 Ohms Nominal	
RF Input Level	Operating	–3 dBm Max
	Non-Destruct	+17 dBm Max
Carrier Suppression (100 MHz RF, 1 MHz Modulation)	35 dB Typ	
Control Input		
PM-101		
Logic 1	+10 mA Drive Current	
Logic 0	–10 mA Drive Current	
PM-102 (ECL Series 10,000)		
Logic 1	ECL High	
Logic 0	ECL Low	
PM-103 (LS TT L)		
Logic 1	TTL High	
Logic 0	TTL Low	
Bias Power		
PM-102	–4.7 to –6.2 VDC @ 50 mA Max (260 mW Typ)	
PM-103	+5.0 VDC ±5% @ 30 mA Max (125 mW Typ)	
Package Type	TO-8-2 (See page 472 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

PM-101	RF IN; P2, RF Out; P5, D1; P11, D2; P8
PM-102	RF IN; P2, RF Out; P5, D1; P11, D2; P8, DC; P7
PM-103	RF IN; P2, RF Out; P5, D1, P11, DC; P8

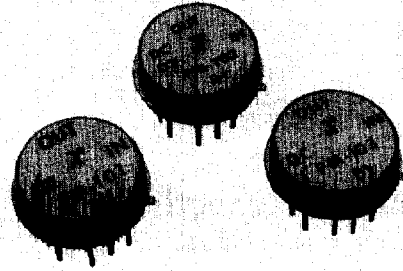
All other pins are ground.

*All specifications apply with 50 ohm source and load impedance and inputs to –3 dBm.

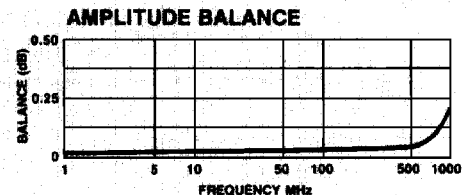
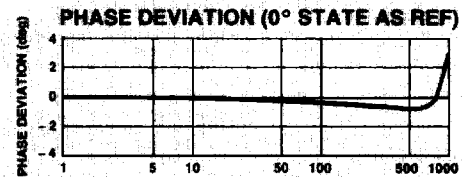
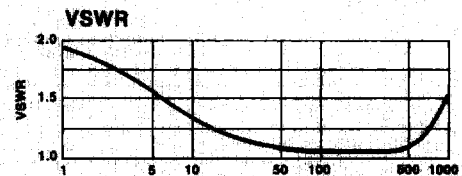
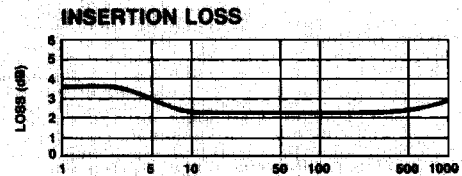
Ordering Information

Model No.	Part No.	Connectors	Unit Price (5-9 Units)
PM-101	9689	Pin	\$94
PM-102	9699	Pin	116
PM-103	9249	Pin	116

Delivery is from stock.



Typical Performance



PHASE STATE	LOGIC STATE	
	D1	D2
0°	1	0
+180°	0	1

ANZAC

Make the Connection...

Adams Russell

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COMPONENTS GROUP

For Technical Information, Call (617) 273-3333

For Ordering Information, Call (617) 273-3333