



Biphase Modulator

2.0-3.0 GHz

PM-104

- 3.5 dB Typical Insertion Loss
- 1.5:1 Typical VSWR
- 1° Typical Phase Deviation
- 3 nS Switch Speed

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	2.0-3.0 GHz
Insertion Loss	2.0-2.8 GHz: 5.5 dB Max 2.8-3.0 GHz: 6.0 dB Max
VSWR	2.0-2.8 GHz: 2.0:1 Max 2.8-3.0 GHz: 2.25:1 Max
Amplitude Balance	0.6 dB Max
Phase Deviation	5° Max

Operating Characteristics

Impedance	50 Ohms Nominal
Maximum Input	
Total Power	300 mW Max Derated to 85°C @ 3.2 mW/°C
Bias Port Current	50 mA Max
Carrier Suppression (2.5 GHz RF, 5 MHz Modulation)	28 dB Typ
Switching Speed	3 nS Typ
Input Power for 1 dB Compression	+6 dBm Typ
Control Input	
Logic 1	+20 mA Drive Current
Logic 0	-20 mA Drive Current

Environmental

See Appendix for MIL-STD-883 screening option.

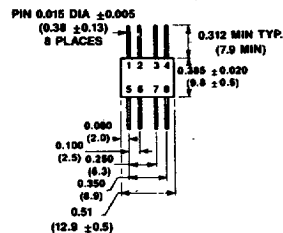
Pin Configuration	IN; P5, Out; P8 D1; P4, All other pins are ground.
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*All specifications apply with 50 ohm source and load impedance and inputs to 0 dBm.

Ordering Information

Model No.	Package
PM-104 PIN	Flatpack

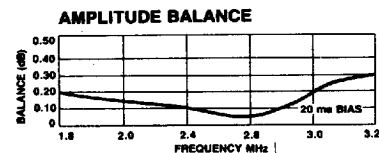
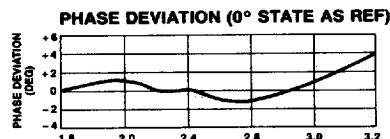
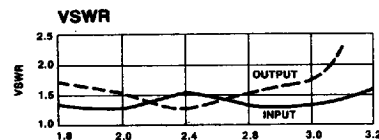
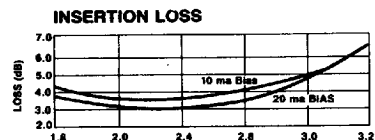
FP-2



Dimensions in () are in mm.

See Appendix for complete physical dimensions.

Typical Performance



PHASE STATE	LOGIC STATE
0°	D1
+180°	0

Specifications Subject to Change Without Notice.

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