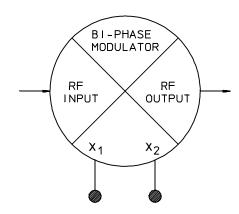
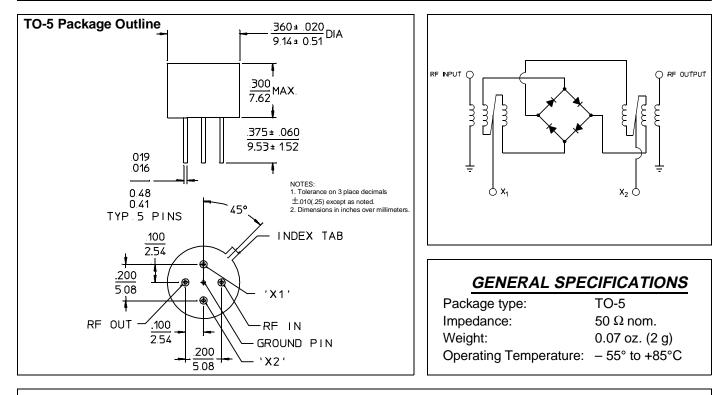
BIPHASEMODULATOR

10 to 1000 MHz/1° Phase Deviation (typ)/0.1 dB Amplitude Bal. (typ)



PRINCIPAL SPECIFICATIONS									
Model Number	Frequency Range, MHz		rtion s, dB, Max.	VSWR, Max.	Phase Deviation, Max.	Carrier Suppression, dB, Typ.	Data Signal Level, mA, Logic 0 Logic 1		Amplitude Balance, dB, Max.
M-109A	10 - 1000	2.5* *Applie	4.0* es 10 - 50	2:1* 0 MHz only.	±3° * **With 100 MI	35** Hz RF and 1 MHz mo	-15 odulation	+15	-3



General Notes:

1. The M-109A Biphase modulator covers the frequency range of 10 to 1000 MHz using broadband ferrite core transformers and specially selected diodes.

2. The M-109A is usable up to 1000 MHz while certain custom units are available for frequency ranges up to 4 GHz. The TO-5 package used in the M-109A is ideal where space is critical.

3. Merrimac offers a broad selection of Biphase Modulators for a variety of signal processing functions with frequencies and bandwidths available for most applications from routine to very special.

4. Merrimac Biphase Modulators comply with MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

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