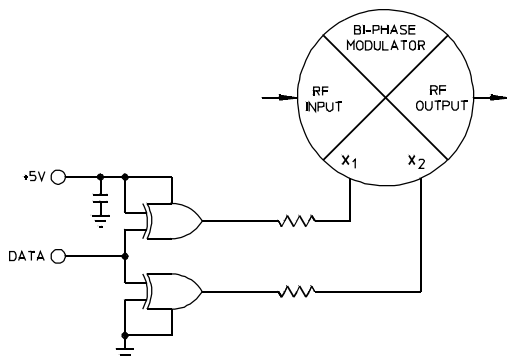




BTM-2A Series

BIPHASE MODULATOR

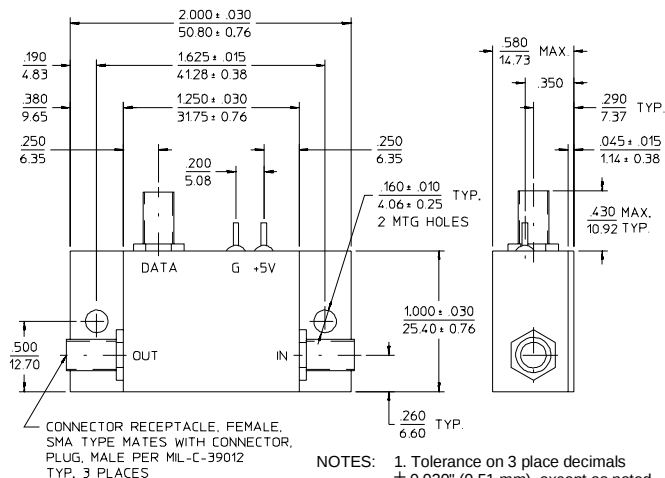
2 to 2500 MHz / Direct TTL Input / Uses Only +5V Supply / Fast Switching / SMA Connectors



PRINCIPAL SPECIFICATIONS

Model Number	Frequency Range, MHz	Insertion Loss, dB,		Amplitude Balance, dB,		Phase Balance		Carrier Suppression, Typ.
		Max.	Typ.	Max.	Typ.	Max.	Typ.	
BTM-2A-250	2 – 500	3.5	2.5	0.3	0.10	±4°	±2°	– 40 dBc
BTM-2A-500	10 – 500	3	2	0.3	0.20	±3°	±1°	– 40 dBc
	500 – 1000	4	3	0.5	0.20	±4°	±2°	– 35 dBc
BTM-2A-1500	1000 – 2000	6	5	0.75	0.25	±5°	±2°	– 30 dBc
BTM-2A-2250	1500 – 2500	6	5	1.0	0.25	±5°	±2°	– 30 dBc

A-Package Outline



GENERAL SPECIFICATIONS

Impedance:	50 Ω nom.
RF Input Level:	– 3 dBm max.
VSWR:	2.0:1 max.
Switching Speed:	5 nS typ. 50% Control to 90% RF
Data Signal Levels:	TTL compatible
Power Supply:	+5 VDC @ 25 mA
Weight, nominal:	1.5 oz (42 g)
Operating Temp:	– 55° to +85°C

AVAILABLE OPTIONS

Direct Input (No driver):	As BPM series
Integral ECL Driver:	As BEM series

General Notes:

1. The BTM-2A series of Biphase Modulators covers the frequency range of 2 to 2500 MHz and includes interfacing circuitry so units may be driven directly using a +5V supply.
2. Customized versions are available for special frequency bands matched to your special applications.
3. Most units in this series are available in a variety of alternative packages such as the Meri-Pac™ or flatpack (see BTF-2A series). Units supplied without integral TTL drivers are available in the BPM-2A series.
4. All units comply with the applicable sections of 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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