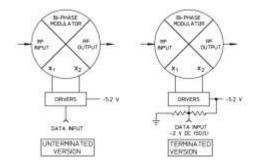
BEM & BETM-2A Series, Biphase Modulators

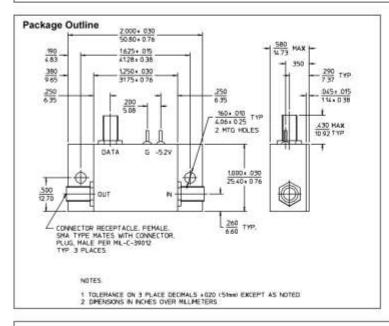
TECHNICAL FEATURE

FEATURES

- 2 2000 MHz
- **ECL Input**
- Uses -5.2 Volt Power Supply
- SMA Connectors



		PRINCIPAL SPECIFICATIONS								
Model Number, Unterminated	Model Number, Terminated	Frequency Range, MHz	Insertion Loss, dB,		Amplitude Balance, dB,		Phase Balance		Carrier Suppression	Weight oz (g),
			Max.	Тур.	Max.	Typ.	Max.	Тур.	Тур.	Nom.
BEM-2A-250	BETM-2A-250	2 - 500	3.5	2.5	0.3	0.10	±4°	±2°	- 40 dBc	1.5 (42)
BEM-2A-500	BETM-2A-500	10 - 500 500 - 1000	3	2	0.3 0.5	0.20 0.20	±3° ±4°	±1° ±2°	40 dBc35 dBc	1.5 (42)
BEM-2A-1500	BETM-2A-1500	1000 - 2000	6	5	0.75	0.25	±5°	±2°	- 30 dBc	1.5 (42)



GENERAL SPECIFICATIONS

Impedance: 0Ω nom. RF Input Level: 3 dBm max. 2.0:1 max. VSWR: Switching Speed: 5 nS typ.

(50% Control to 90% RF) ECL compatible

Data Signal Levels: (terminated or unterminated)

Power Supplies: 5.2 VDC (@ 40 mA nom.)

Operating Temp: - 55° to +85°C

AVAILABLE OPTIONS

Direct (No Driver) As BPM series Integral TTL Driver: As BTM series Other frequencies: Up to 2500 MHz.

Consult with factory

- The BEM and BETM-2A series of Biphase Modulators cover the frequency range of 2 to 2000 MHz and can be driven directly by standard ECL using only a 5.2 V supply. Custom units covering up to 2500 MHz may be obtained. Consult with the factory.
- The BEM-2A series requires an external 50Ω logic input termination while the BETM-2A series includes an internal 50Ω logic input termination. Comparable TTL versions are available in a similar package or a non-connectorized Meri-Pac™ or flatpack (see BTF-2A series). Units without integral TTL drivers are available in the BPM-2A series.
- 3. Merrimac Biphase Modulators cover a variety of frequency bands while providing wide bandwidths suitable for most applications.
- 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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BEM2A.doc. This revision supersedes all previous releases. All technical information is believed to be accurate, but no responsibility is assumed for errors. We

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