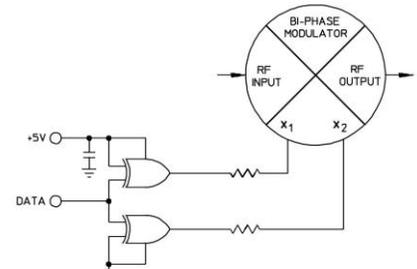


BTG-2B-500, BIPHASE MODULATORS

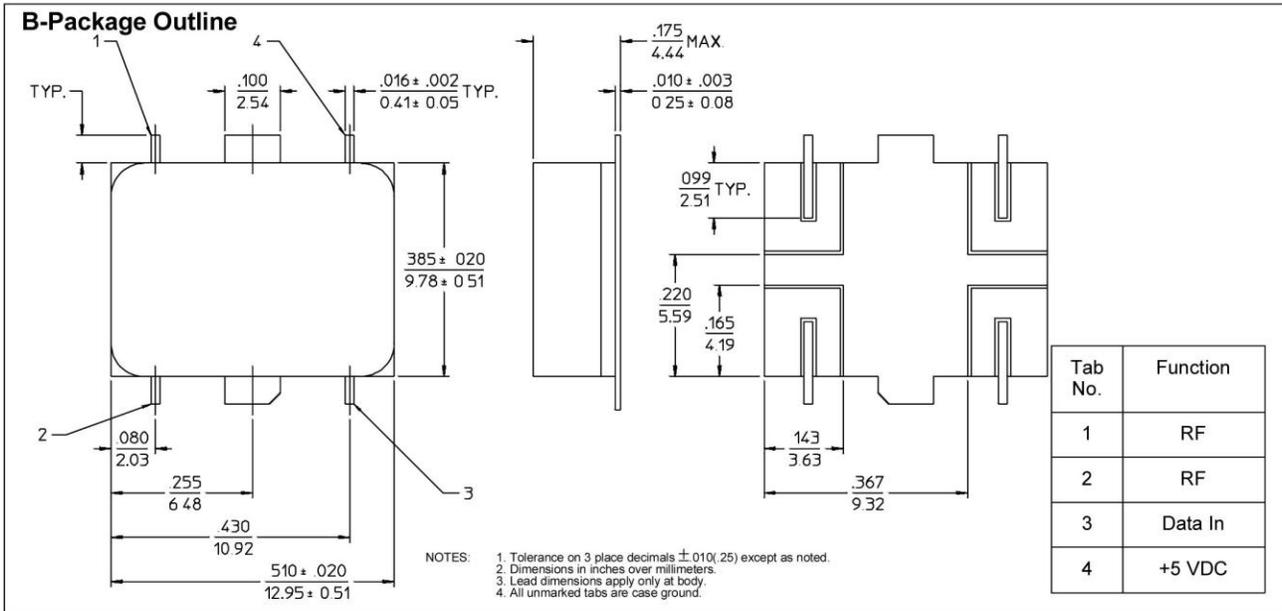
TECHNICAL FEATURE

FEATURES

- 10 - 2000 MHz
- TTL Compatible Input
- Hi-Rel SMD Package



<u>PRINCIPAL SPECIFICATIONS</u>										
Model Number	Frequency Range, MHz	Insertion Loss, dB		Amplitude Balance, dB		Phase Balance, Max. Typ.		Carrier Suppression, Typ.	VSWR, Max.	Weight, oz.(g), Nom.
		Max.	Typ.	Max.	Typ.	Max.	Typ.			
BTG-2B-500	10 – 500	3	2	0.3	0.20	±3°	±1°	– 25 dBc	2.0:1	0.1 (2.8)
	500 – 1000	4	3	0.5	0.20	±4°	±2°			



General Notes:

1. The BTG-2B-500 Biphas Modulator covers the frequency range of 10 to 1000 MHz and includes interface circuitry so it may be driven directly from standard TTL using a +5V supply.
2. The BTG-2B-500 is available in a variety of alternative packages, logic circuit types (e.g., ECL) and frequency ranges. Customized versions are available for special frequency bands matched to your special applications.
3. Merrimac Biphas Modulators cover a variety of frequency bands while providing wide bandwidths suitable for most applications. All units comply with MIL-M-28837 and may be supplied screened for compliance with additional specifications for military and space applications requiring the highest reliability.

<u>GENERAL SPECIFICATIONS</u>	
Impedance:	50 Ω nom.
RF Input Level:	0 dBm max.
Switching Speed:	5 nS typ. (50% Control to 90% RF)
Data Signal Levels:	TTL compatible
Supply Voltage:	+5 VDC @ 25 mA nom
Operating Temp:	– 55° to +85°C

29Apr96

