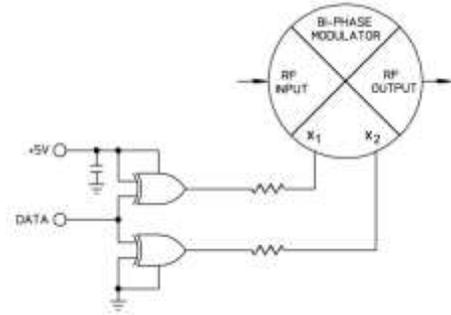


BTF-2A-500, BIPHASE MODULATORS

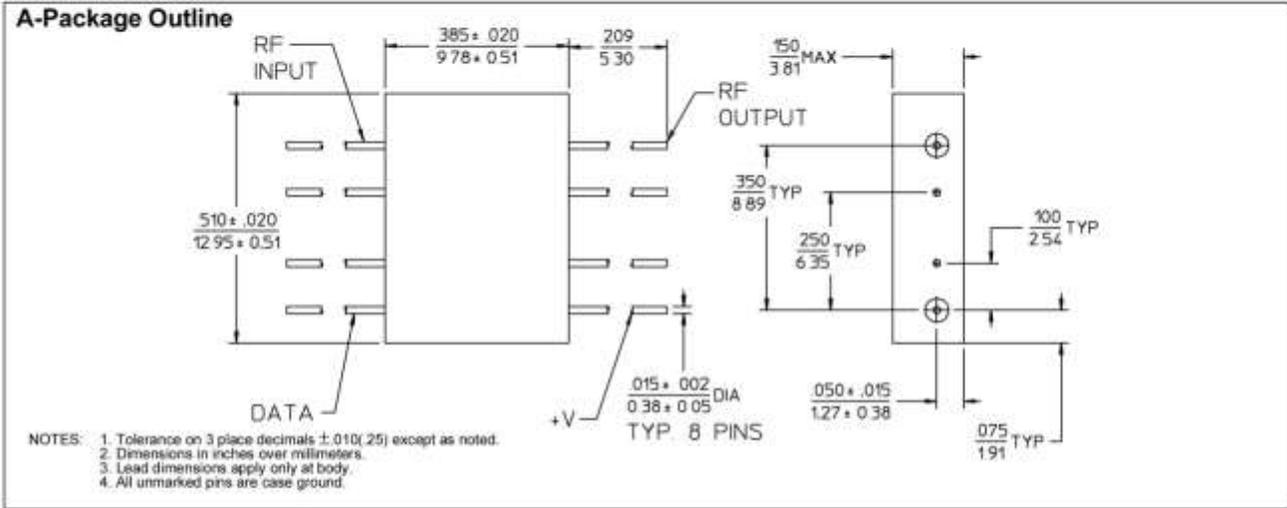
TECHNICAL FEATURE

FEATURES

- 10 - 1000 MHz
- Direct TTL Input
- Fast Switching
- Hermetic Packaging



Model Number	Frequency Range, MHz	Insertion Loss, dB		Amplitude Balance, dB		Phase Balance		Carrier Suppression, Typ.
		Max.	Typ.	Max.	Typ.	Max.	Typ.	
BTF-2A-500	10 – 500	3	2	0.3	0.20	±3°	±1°	– 25 dBc
	500 – 1000	4	3	0.5	0.20	±4°	±2°	– 25 dBc



General Notes:

1. The BTF-2A-500 Biphase Modulator covers the frequency range of 10 to 1000 MHz and includes interfacing circuitry so it may be driven directly from standard TTL using a +5V supply.
2. The BTF-2A-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 Biphase Modulators cover a variety of frequency bands while providing wide bandwidths suitable for most applications.
4. All units comply with 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.

22Feb/96

GENERAL SPECIFICATIONS	
Impedance:	50 Ω nom.
RF Input Level:	0 dBm max.
VSWR:	2.0:1 max.
Switching Speed:	5 nS typ.
50% Control to 90% RF	
Data Signal Levels:	TTL compatible
Supply Voltage:	+5 VDC
	@ 25 mA, nom.
Weight, nominal:	0.1 oz. (2.8 g)
Operating Temp:	– 55° to +85°C
AVAILABLE OPTIONS	
Custom Frequencies:	From 1 to 4000 MHz
Without TTL Driver:	As BPF series

