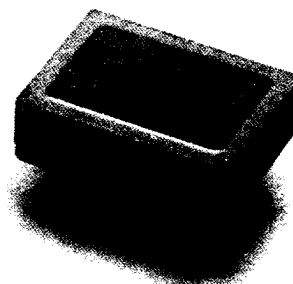
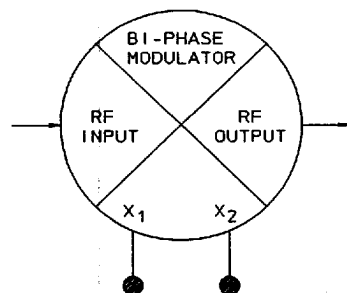


**BPP-2N series**

BIPHASE MODULATORS
Fast Switching, PC Mount

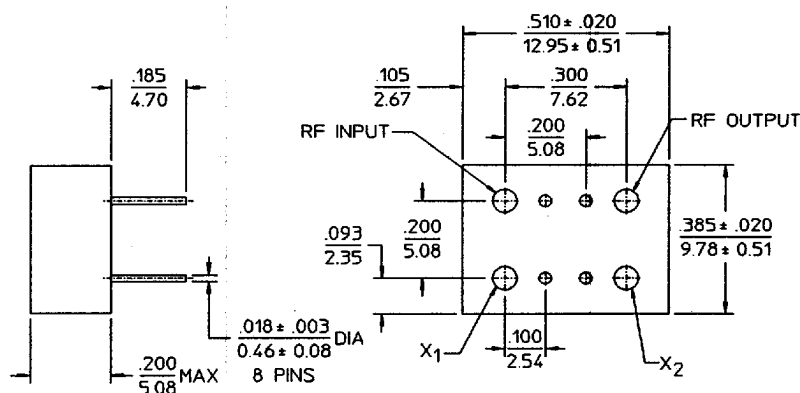


- 10 to 3,600 MHz Frequency Range
- ECL/TTL Compatible Design
- Space Saving, Low Profile, Hermetic Package

MERRIMAC Biphasic Modulators are designed to offer a varied choice of frequency bands, with wide bandwidths suitable for most applications. The BPP-2N series has been designed to be fed from standard TTL or ECL drivers, and can achieve extremely fast rise times above 1 GHz.

Custom versions may be ordered for particular frequency bands, in alternate packages, such as the TO-8, flatpack or connectorized packages, and if desired, with integral TTL or ECL drivers in a larger package. All are designed for high reliability in accordance with MIL-M-28837 requirements, and can be supplied screened to meet specific military and space applications.

Model Number	Frequency Range, MHz	Insertion Loss, dB		Amplitude Balance, dB		Phase Balance		Carrier Suppression typ.
		Max.	Typ.	Max.	Typ.	Max.	Typ.	
BPP-2N-500	10 - 500	3	2	0.3	0.20	$\pm 3^\circ$	$\pm 1^\circ$	-40 dBc
	500 - 1000	4	3	0.5	0.20	$\pm 4^\circ$	$\pm 2^\circ$	-35 dBc
BPP-2N-1500	1000 - 2000	5	3	0.75	0.25	$\pm 5^\circ$	$\pm 2^\circ$	-30 dBc
BPP-2N-2250	1500 - 2500	5	3	1.0	0.25	$\pm 5^\circ$	$\pm 2^\circ$	-30 dBc
BPP-2N-3000	2400 - 3600	5	3	1.0	0.25	$\pm 5^\circ$	$\pm 2^\circ$	-30 dBc

N - Meripac™ Outline

- NOTES:
1. Tolerance on 3 place decimals $\pm .010(.25)$ except as noted.
 2. Dimensions in inches over millimeters.
 3. Lead Dimensions apply only at body.
 4. All unmarked pins are case ground.

COMMON SPECIFICATIONS

RF Impedance:	50 Ω nom.
RF Input Level:	-3 dBm max.
VSWR:	2.0:1 max.
Switching Speed:	2 ns typ.
Data Levels:	Logic 1: +15 mA
	Logic 0: -15 mA
Weight, nominal:	0.1 oz (2.8 g)
Operating Temperature:	-55° to +85°C

Contact MERRIMAC for further details. (12/91)

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