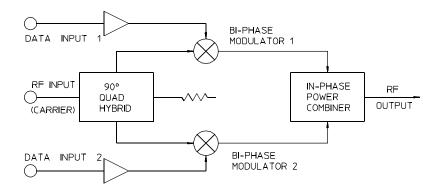
QUADRAPHASE MODULATOR

10 to 1000 MHz Center Freq / Integrated TTL Drivers / Automated Production Compatible



PRINCIPAL SPECIFICATIONS							
Model Number	Center Freq, fo, MHz	RF Input Bandwidth	Amplitude Balance, dBm, Max.	Phase f _o Max.	Balance @: Band Limits Max.	Insertion Loss, dB, Max.	VSWR Max.
JTF-2F-***B	10 to 200	10% of f _o	0.5	±2°	±4°	6	1.5:1
JTF-2F-***B	200 to 1000	10% of f_0	1.0	±3°	±5°.	9	1.5:1

General Notes:

1. Units in the JTF-2F series of Quadraphase Modulators are composed of two biphase modulators with TTL drivers, a 90° quadrature hybrid and an in-phase power combiner.

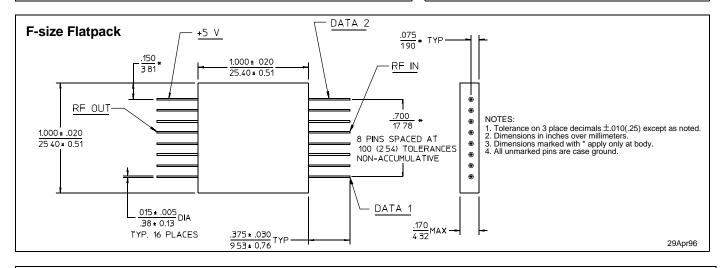
2. These devices are generally used in systems to generate QPSK coded signals. The units accept two differential data inputs each of which independently biphase modulates an RF carrier. These are then combined to produce a quadraphase output of 0, 90, 180 and 270 degrees.

3. Units in the JTF-2F series are available with center frequencies from 10 to 1000 MHz and having a minimum bandwidth equal to 10% of the center frequency.

4. Merrimac Quadraphase Modulators comply with the relevant sections of MIL-M-28837 and may be supplied screened for compliance with additional specifications for military applications requiring the highest reliability.

GENERAL SPECIFICATIONS

Impedance: 50 Ω n	om.				
RF Input Level:	0 dBm nom.				
Modulation Sequence					
TTL Data Ports 1,2	:: 0,0 : ref. 0°				
	1,0 : +270°				
	1,1 : +180°				
	0,1 : +90°				
Data Bandwidth:	DC to 5 MHz nom.				
	(Wider Bandwidths in				
	larger package)				
DC Power:	+5 V @ 25 mA nom.				
Weight, nominal:	0.35 oz (10 g)				
Operating Temp:	40° to + 85°C				



Forfurther information contact MERRIMAC /41 Fairfield PL,WestCallwell,NJ,07006 / 201-575-1300 /FAX 201-575-0531