JPP-21S Series

QUADRAPHASE MODULATOR

Units to 3 GHz / High Data Bandwidth / Differential ECL/TTL Compatible Drive / Hi-Rel Package



	PRINCIPAL SPECIFICATIONS							
Model Number	Center Frequency, f _{o,} MHz	RF Input Bandwidth	Amplitude Balance at, dB, Max.	Phase at Cer Typ.	Balance nter, fo Max.	Phase at 10% Ba Typ.	Balance and Limits Max.	Insertion Loss, dB, Max.
JPP-21S-***B	1200 - 2500 For com	10% of f _o plete Model Numb	1.0 er replace *** with	±2° desired Cer	±5° nter Frequen	$\pm 2^{\circ}$ icy, f _o in MHz.	±5°	10

General Notes:

1. Units in the JPP-21S series of Quadraphase Modulators are composed of two biphase modulators, 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. Differential drive allows easy interface with ECL/TTL drivers.

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

GENERAL SPECIFICATIONS

Impedance:	50 Ω nom.				
VSWR:	1.5:1 max.				
RF Input Level:	0 dBm nom.				
Data Bandwidth:	>100 MHz nom.				
Data Signal Levels: Logic 1:+15 mA nom.					
Log	Logic 0: – 15 mA nom.				
Weight, nominal:	0.32 oz (9 g)				
Operating Temperature	: - 55° to +85°C				



For further information contact M ERRIM AC /41 Fairfield Pl.,W est Caliv ell,NJ ,07006 / 201-575-1300 /FAX 201-575-0531