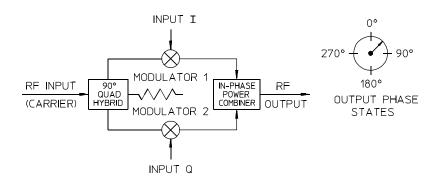
1.5 to 3 GHz Center Freq / Narrowband QPSK / For MSK Systems / 10% BW / Hermetic PC Package





## PRINCIPAL SPECIFICATIONS

Model Number	Center Frequency, f <sub>o.</sub> GHz	Usable RF Bandwidth
VMP-2S-***B	1.5 - 3	10% of f <sub>o</sub>

For complete Model Number replace \*\*\* with desired Center Frequency, fo in MHz.

## **General Notes:**

- 1. A vector modulator is used to phase modulate an RF carrier with complex analog signals.
- 2. Merrimac Vector Modulators consist of a quadrature hybrid and an in-phase power divider.
- 3. Units in the VMP-2S series are capable of modulating the carrier at up to 10% of the RF bandwidth.
- 4. These vector 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**

Insertion Loss

(below modulation input): 12 dB max.

Modulation Accuracy (measured @ 4 quadrants, 0 dBm input)

Amplitude Balance: 1 dB  $\pm$  7° Carrier Isolation: 30 dB typ. Dynamic Range (output): 20 dB nom. Weight, nominal: 0.35 oz (10 g) Operating Temperature:  $-55^{\circ}$  to  $+85^{\circ}$ C

## **AVAILABLE OPTIONS**

Close tolerance phase and amplitude balance versions are available in custom designs. Units with lower center frequency (e.g., 10 MHz to 1 GHz) are available in the VMP-2R series

