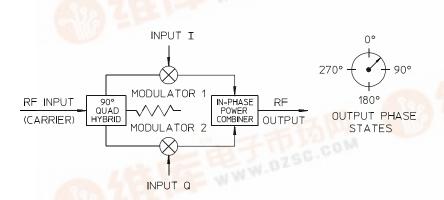
VMP-2R Series

VECTOR I&Q MODULATORS

10 to 1000 MHz / Narrowband QPSK / For MSK Systems / 10% Bandwidth / Hermetic PC Package





PRINCIPAL SPECIFICATIONS

Model Number	Center Frequency, fo. MHz	Usable RF Bandwidth
VMP-2R-***B	10 - 1000	10% of fo

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-2R 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

RF Input: +10 dBm, nom. Modulation Inputs: 0 dBm max. VSWR: 1.5:1 max. Impedance: 50Ω nom. Insertion Loss: 12 dB max. (below modulation input)

Modulation Accuracy

(measured @ 4 quadrants, 0 dBm input)

Amplitude Balance: 1 dB
Phase Balance: ±5°

Carrier Isolation: 35 dB typ.

Dynamic Range (output): 20 dB nom.

Operating Temperature: -55° to +85°C

AVAILABLE OPTIONS

Close tolerance phase and amplitude balance versions are available in custom designs. Units with higher center frequency (e.g.,1500 MHz to 3 GHz) are available in the VMP-2S series.

