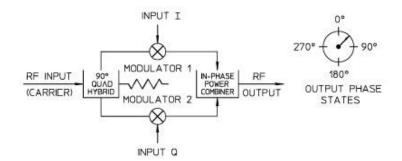
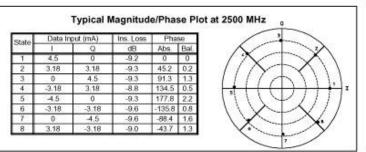
VMM-2D SERIES – VECTOR I&Q MODULATOR

TECHNICAL FEATURE

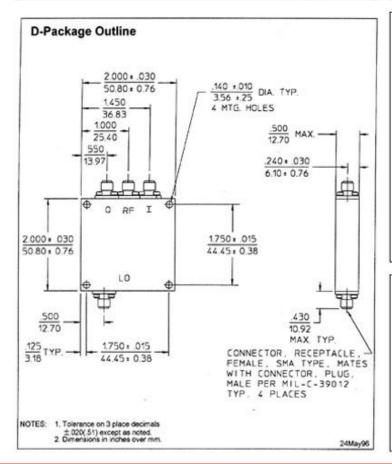
FEATURES

- 2.5 to 6.5 GHz
- High Rate Analog QPSK for MSK Systems
- Excellent Phase & Amplitude Balance
- SMA





Model Number	RF/LO Center Freq., f _o , GHz	RF/LO Bandwidth, MHz
VMM-2D-****B	2.5 to 6.5	10% of fo



GENERAL SPECIFICATIONS

RF Input:	+10 dBm nom.
Modulation Inputs:	0 dBm max.
VSWR:	2.0:1 max.
Impedance:	50Ω nom.
Insertion Loss	
(Below modulation Input): Modulation Accuracy	12 dB max.
(measured @ 4 quadrants,	0 dBm input)
Amplitude Balance:	1 dB
Phase Balance:	$\pm 5^{\circ}$
Weight, nominal:	3 oz (84 g)
Operating Temp:	- 55° to +85°C

General Notes:

1. A vector modulator is used to phase modulate an RF carrier with complex analog signals.

Merrimac Vector Modulators consist of a quadrature hybrid and an in-phase power divider.

Units in the VMM-2D series are capable of modulating the carrier at up to 10% of the RF bandwidth.

4. These units comply with 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.



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VMM2D.doc. This revision supersedes all previous releases. All technical information is believed to be accurate, but no responsibility is assumed for errors. We reserve the right to make changes in products or specifications without notice. Copyright © 2013 Crane Electronics, Inc. All rights reserved.