VMF-2E-340 SQ

I&Q MODULATOR

REV: 001, 04/20/01

- SPACE QUALIFIED
- HIGH ACCURACY
- HI-REL FLATPACK

SERIES 05

TECHNICAL DESCRIPTION / APPLICATION

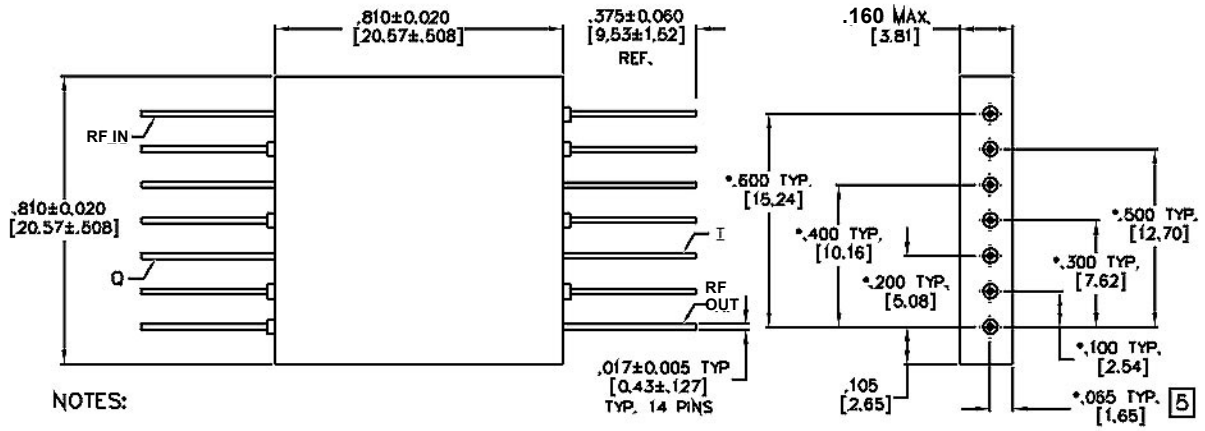
I & Q modulators are integrated devices that produce linear phase modulation of an RF carrier. In the VMF Series, specially optimized circuits are used to provide superior performance across very wide bandwidths and high data rates. This has been designed, manufactured and qualified per Merrimac document CENG-0001, “Standard Design Requirements for Space Qualified Devices”.

GENERAL SPECIFICATIONS

MODEL NUMBER	RF INPUT MHz	RF INPUT POWER dB MIN.	RF INPUT POWER dB MAX.	PHASE BALANCE	AMPLITUDE BALANCE dB	CONVERSION LOSS TYP.	CONVERSION LOSS MAX.	VSWR RF / LO TYP.	VSWR RF / LO MAX.	LO POWER LEVEL dBm
VMF-2E-340 SQ	340	+10	+13	± 5°	1.0	10 dB	12 dB	1.3:1	1.5:1	+10 - 13

I&Q POWER LEVEL dBm MAX	I&Q BANDWIDTH MHz	INPUT INTERCEPT dBm MIN.	IMPEDANCE NOM.	WEIGHT MAX.	OPERATING TEMPERATURE
0	DC to 40	+14	50 OHM	10g	-55° to +85 ° C

PACKAGE OUTLINE



NOTES:

1. TOLERANCE ON 3 PLACE DECIMALS ±.010 [.25mm] EXCEPT AS NOTED.
2. MAX. IS LARGEST DIMENSION ALLOWED.
3. DIMENSIONS = INCHES [mm]
4. METRIC EQUIVALENTS ARE TO THE NEAREST .01mm.
5. ALL LEADS TO BE WITHIN ±.010 [.25mm] OF EACH OTHER AT THIS DIMENSION.
6. DIMENSIONS MARKED WITH * APPLY ONLY AT BODY
7. ALL UNMARKED PINS ARE CASE GROUND.

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