

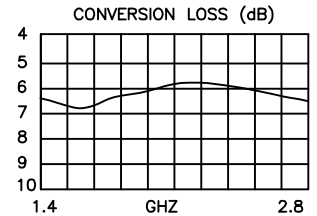
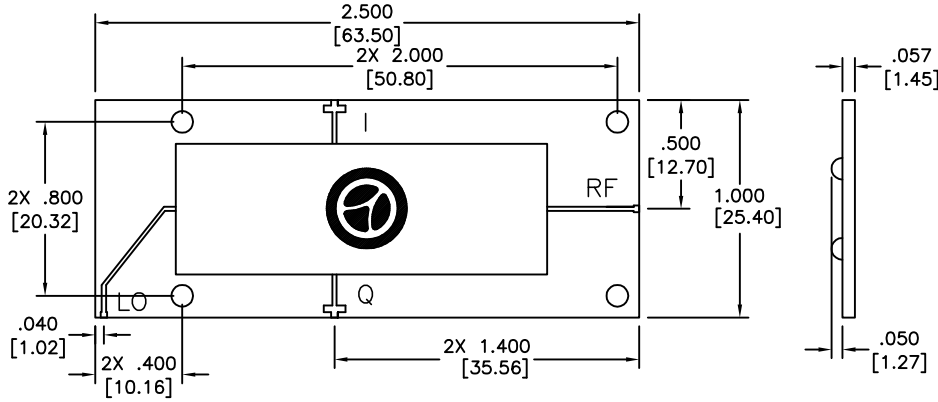
ORION MICROWAVE
PROPRIETARY INFORMATION

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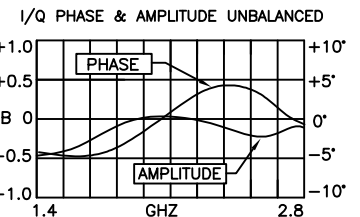
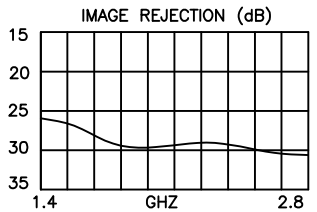
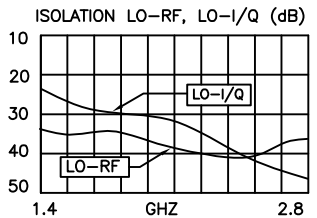
THIS DRAWING HAS BEEN GENERATED BY A CAD SYSTEM. CHANGES SHALL ONLY BE INCORPORATED AS DIRECTED BY THE DESIGN ACTIVITY. DO NOT REVISE MANUALLY.

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/20/06	L.T.



PARAMETER	CONDITIONS			SPECIFICATIONS (1)		
	RF(GHZ)	LO(GHZ)	IF(MHZ)	MIN.	TYPICAL	MAX.
SSB CONVERSION LOSS	1.4-2.8	1.4-2.8	DC-500		6.2 dB	7.9 dB
IMAGE REJECTION:(2)	1.4-2.7	1.4-1.7	DC-500		18 dB	21dB
	1.7-2.8	1.7-2.8	DC-500		20 dB	29dB
AMPLITUDE MATCH:	1.4-2.8	1.4-2.8	DC-500		0.25 dB	
PHASE MATCH:	1.4-2.8	1.4-2.8	DC-500		3°	
ISOLATION: LO TO RF LO TO I/Q RF TO I/Q I/Q TO RF		1.4-2.8			33 dB	41 dB
		1.4-2.8			20 dB	38 dB
	1.4-2.8				31 dB	
			DC-500		43 dB	
INPUT 1dB COMPRESSION POINT:	1.4-2.8	1.4-2.8	DC-500		+6dBm (IQM0103-B) +9dBm (IQM0103-C) +13dBm (IQM0103-D)	
INPUT IP3:	1.4-2.8	1.4-2.8	DC-500		+14dBm (IQM0103-B) +17dBm (IQM0103-C) +21dBm (IQM0103-D)	
LO POWER: (3)					+10dBm (IQM0103-B) +13dBm (IQM0103-C) +17dBm (IQM0103-D)	



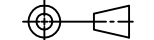
NOTES:

- TESTED AS A DOWN CONVERTER AT +25°C.
- MEASURED WITH EXTERNAL QUADRATURE HYBRID.
- USEABLE LO POWER: -2DB/+3DB FROM NOMINAL.
- SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

UNLESS OTHERWISE SPECIFIED

- * INTERPRET DRAWING IAW ASME Y14.100-2000
- * DIMENSIONING & TOLERANCING IAW ASME Y14.5-1994
- * PARENTHEetical INFORMATION FOR REFERENCE ONLY
- * DIMENSIONAL LIMITS APPLY BEFORE PROCESSES
- * DIMENSIONS ARE IN INCHES [MILLIMETERS]:
- * TOLERANCES ARE: ANGLES ±1.0°
2 PLACE DECIMAL ±.01 [±.25]
3 PLACE DECIMAL ±.005 [±.13]
- * SURFACE FINISH
- * REMOVE ALL BURRS AND SHARP EDGES .010 [.25] RAD MAX.
- * CONCENTRICITY MACHINED DIA: .002 [.05] FIM
- * MACHINED TOOL MISMATCH .002 [.05] MAX.

THIRD ANGLE PROJECTION



APPROVALS	DATE
DESIGNER <i>A. McTran</i>	12/15/06
ENGINEER <i>A. McTran</i>	12/15/06
MFG. ENGR.	
Q.A. <i>L. TRAN</i>	12/17/06
PROG. MGMT/MKT <i>KT.N</i>	12/18/06



SPECS, IQM103C-X
I/Q MODULATOR

SIZE	CAGE NO.	DWG NO.	REV.
A	51RH9	150-0063-001	A

SCALE: 1/1 SHEET 1 OF 1

DO NOT SCALE DRAWING