

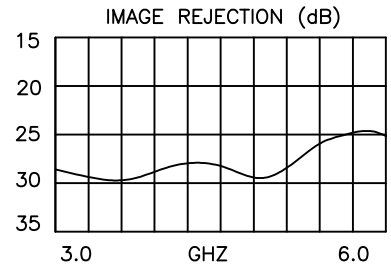
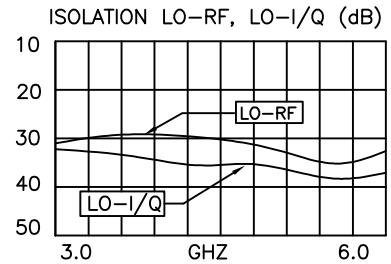
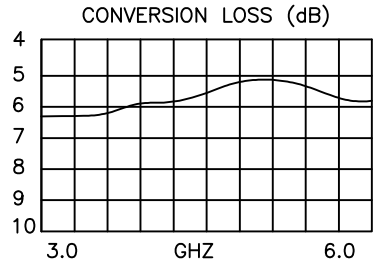
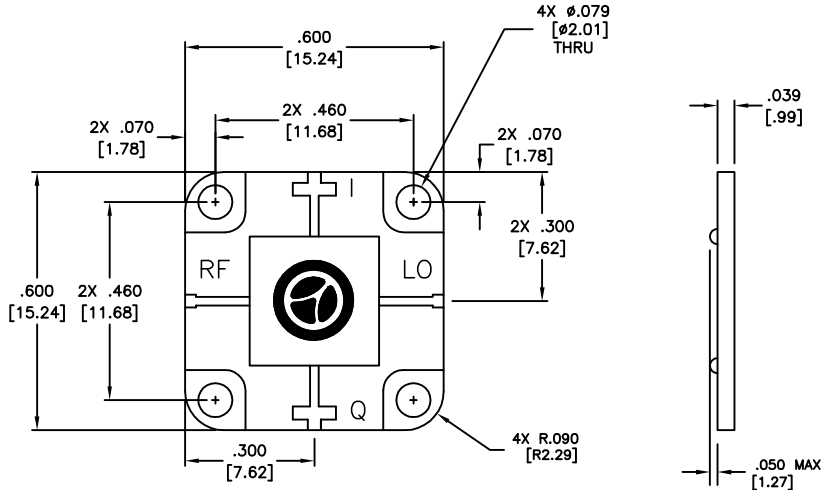
ORION MICROWAVE  
PROPRIETARY INFORMATION

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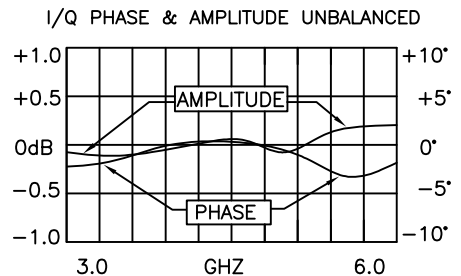
THIS DRAWING HAS BEEN GENERATED BY A CAD SYSTEM. CHANGES SHALL ONLY BE INCORPORATED AS DIRECTED BY THE DESIGN ACTIVITY. DO NOT REVISE MANUALLY.

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/20/06	L.T.
B	ECO#1001	9/22/08	L.T.



PARAMETER	CONDITIONS			SPECIFICATIONS (1)		
	RF(GHZ)	LO(GHZ)	IF(MHZ)	MIN.	TYPICAL	MAX.
SSB CONVERSION LOSS	3.0-6.0	3.0-6.0	DC-100		5.5 dB	7.5 dB
	3.0-6.0	3.0-6.0	DC-300		6.5 dB	8.5 dB
IMAGE REJECTION:(2)	3.0-6.0	3.0-6.0	DC-300		20 dB	27 dB
AMPLITUDE MATCH:	3.0-6.0	3.0-6.0	DC-300		0.1dB	
PHASE MATCH:	3.0-6.0	3.0-6.0	DC-300		2.5°	
ISOLATION:		3.0-6.0			25 dB	30 dB
		3.0-6.0			25 dB	32 dB
	3.0-6.0				48 dB	
			DC-300		40 dB	
INPUT 1dB COMPRESSION POINT:	3.0-6.0	3.0-6.0	DC-300		+5dBm	(IQM0306-B)
					+8dBm	(IQM0306-C)
					+12dBm	(IQM0306-D)
INPUT IP3:	3.0-6.0	3.0-6.0	DC-300		+14dBm	(IQM0306-B)
					+17dBm	(IQM0306-C)
					+21dBm	(IQM0306-D)
LO POWER: (3)					+10dBm	(IQM0306-B)
					+13dBm	(IQM0306-C)
					+17dBm	(IQM0306-D)




- NOTES:
- TESTED AS A DOWN CONVERTER AT +25°C.
  - MEASURED WITH EXTERNAL 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
- \* PARENTHEICAL 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 [0.25] RAD MAX.
- \* CONCENTRICITY MACHINED DIA: .002 [0.05] FIM
- \* MACHINED TOOL MISMATCH .002 [0.05] 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



**Orion Microwave**  
INNOVATION & EXCELLENCE IN MICROWAVE

SPECS, IQM0306-X  
I/Q MODULATOR

SIZE	CAGE NO.	DWG NO.	REV.
A	51RH9	150-0061-001	A

SCALE: 1/1 SHEET 1 OF 1

DO NOT SCALE DRAWING