



VCO R007010SM4R75_MOD

rev_0

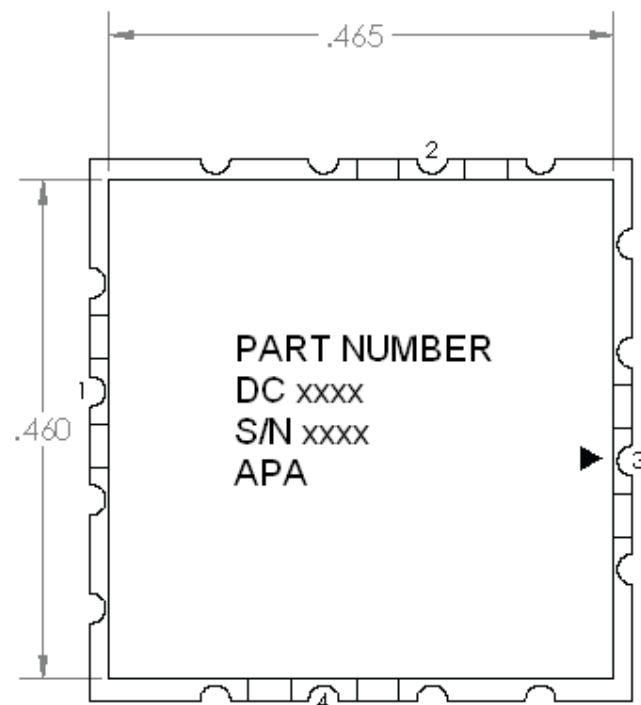
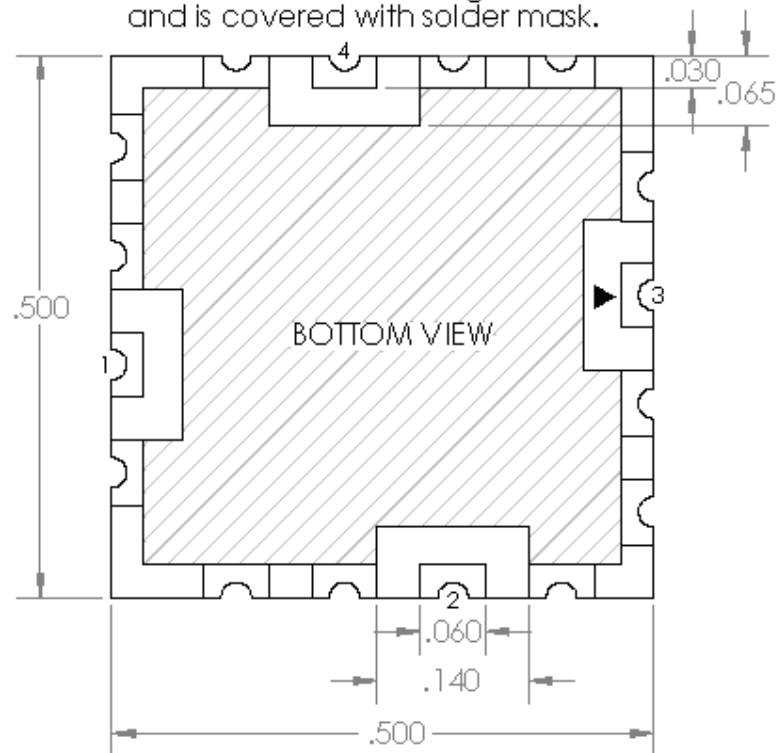
initial rev

	<u>MIN</u>	<u>TYP</u>	<u>MAX</u>	<u>UNITS</u>	<u>NOTES</u>	<u>Production Test</u>	<u>First Article Test</u>
Frequency Range	70		105	MHz	1	..	..
Tuning Voltage @ 70 MHz	0.5	1.8		V	1	..	..
Tuning Voltage @ 105 MHz		8	10	V	1	..	..
Modulation Sensitivity	4	6	8	MHz/V	1	..	..
Operates with Vtune = 0V					1	..	..
Output Power	3	6	9	dBm	1	..	..
Phase Noise @							
1 KHz Offset		-95	-89	dBc/Hz	1	..	..
10 KHz Offset		-118	-112	dBc/Hz	1	..	..
100 KHz Offset		-139	-133	dBc/Hz	1	..	..
1 MHz Offset		-159	-153	dBc/Hz	1	..	..
10 MHz Offset		-160	-154	dBc/Hz	1	..	..
Pushing		0.5	1.5	MHz/V	3	..	..
Pulling (12dB RL, any phase)		0.5	1	MHz _{p-p}	3	..	..
Tuning Port Capacitance		330		pF	2	..	..
Harmonics		-12	-8	dBc	3	..	..
Vcc	4.60	4.75	4.90	V		..	..
Icc		25	30	mA	1	..	..
Operating Temperature	-40		+85	C	3	..	..
Package		SM_MOD			6	..	..
LxW		0.500		inch sq.	5	..	..
Height		0.223		inch	5	..	..

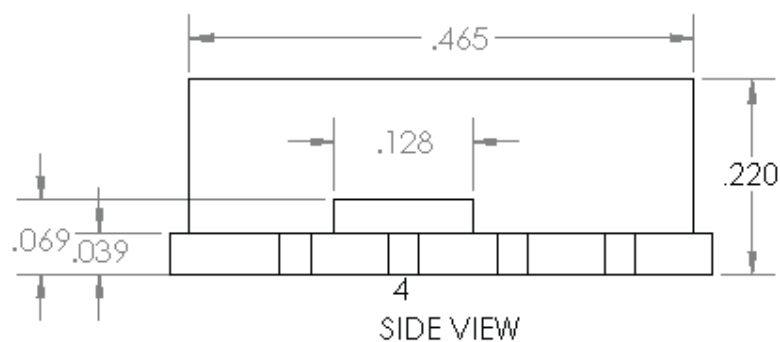
Notes

1. Tested in production, and guaranteed
2. Per current design, not a tested parameter
3. Sample tested from production lot
4. Not a tested or guaranteed design goal
5. By inspection
6. RoHS compliant

NOTE: Hatched area is ground
and is covered with solder mask.



TOP VIEW



SIDE VIEW

CONTACT ASSIGNMENTS

1. V-tune

2. VCC

3. RF out

4. Modulation



TITLE:

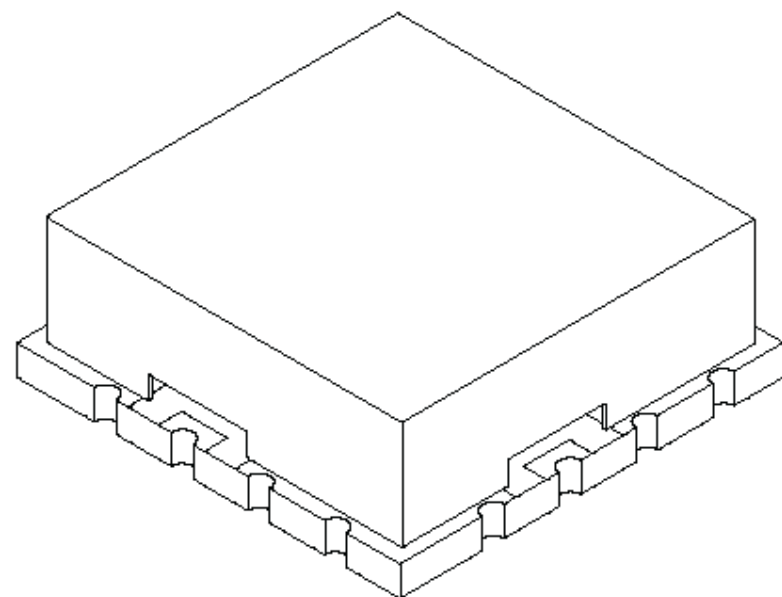
MOD PACKAGE

DRAWN NAME Glenn Epps DATE 07/07/2017

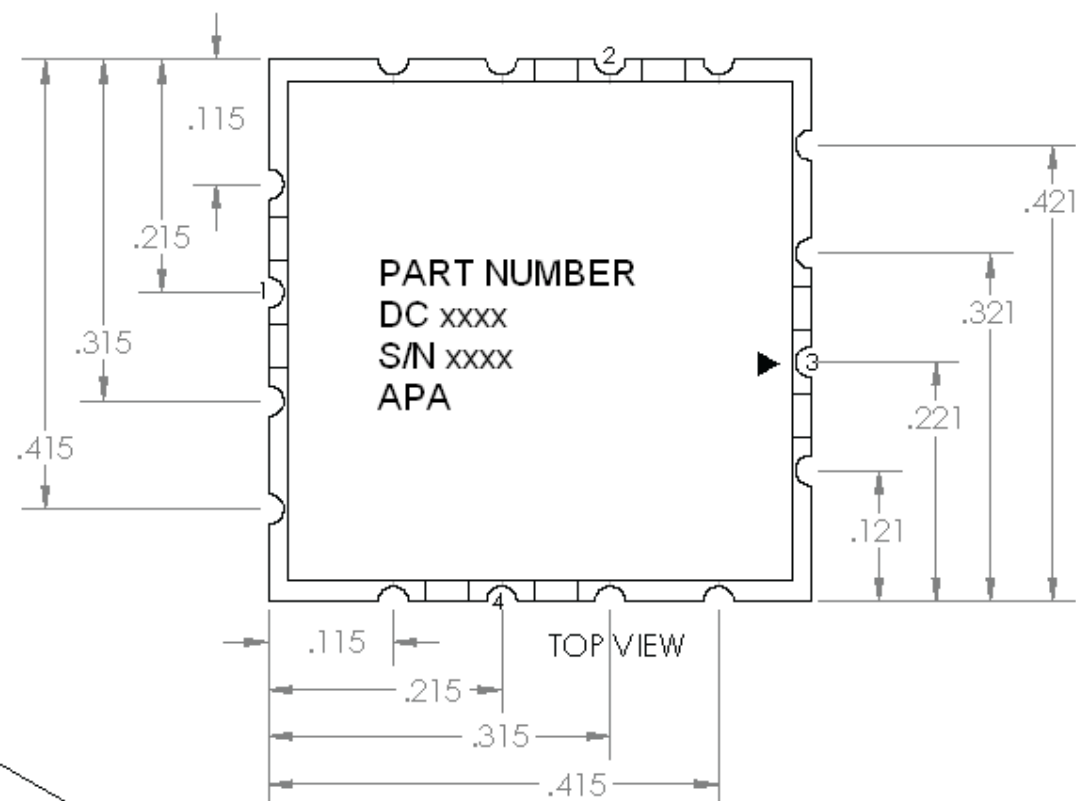
COMMENTS:
Unless otherwise specified all dimensions are in inches.

SIZE A DWG. NO. 1 REV

SCALE: 6:1 unit: inch SHEET 1 OF 2



ISOMETRIC VIEW



CONTACT ASSIGNMENTS

1. V-Tune
2. VCC
3. RF Out
4. Modulation



DRAWN NAME DATE
Glenn Epps 07/07/2017

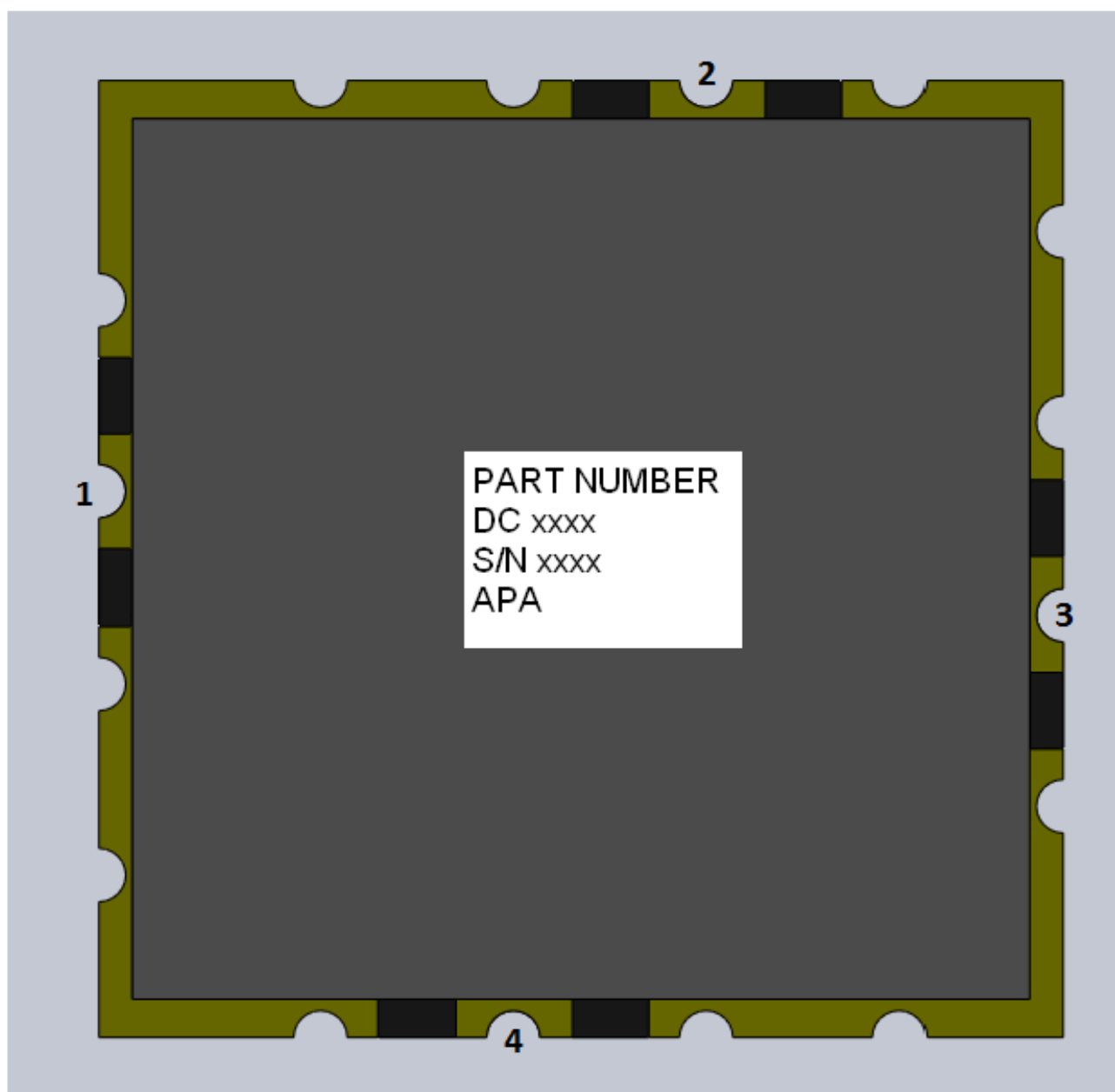
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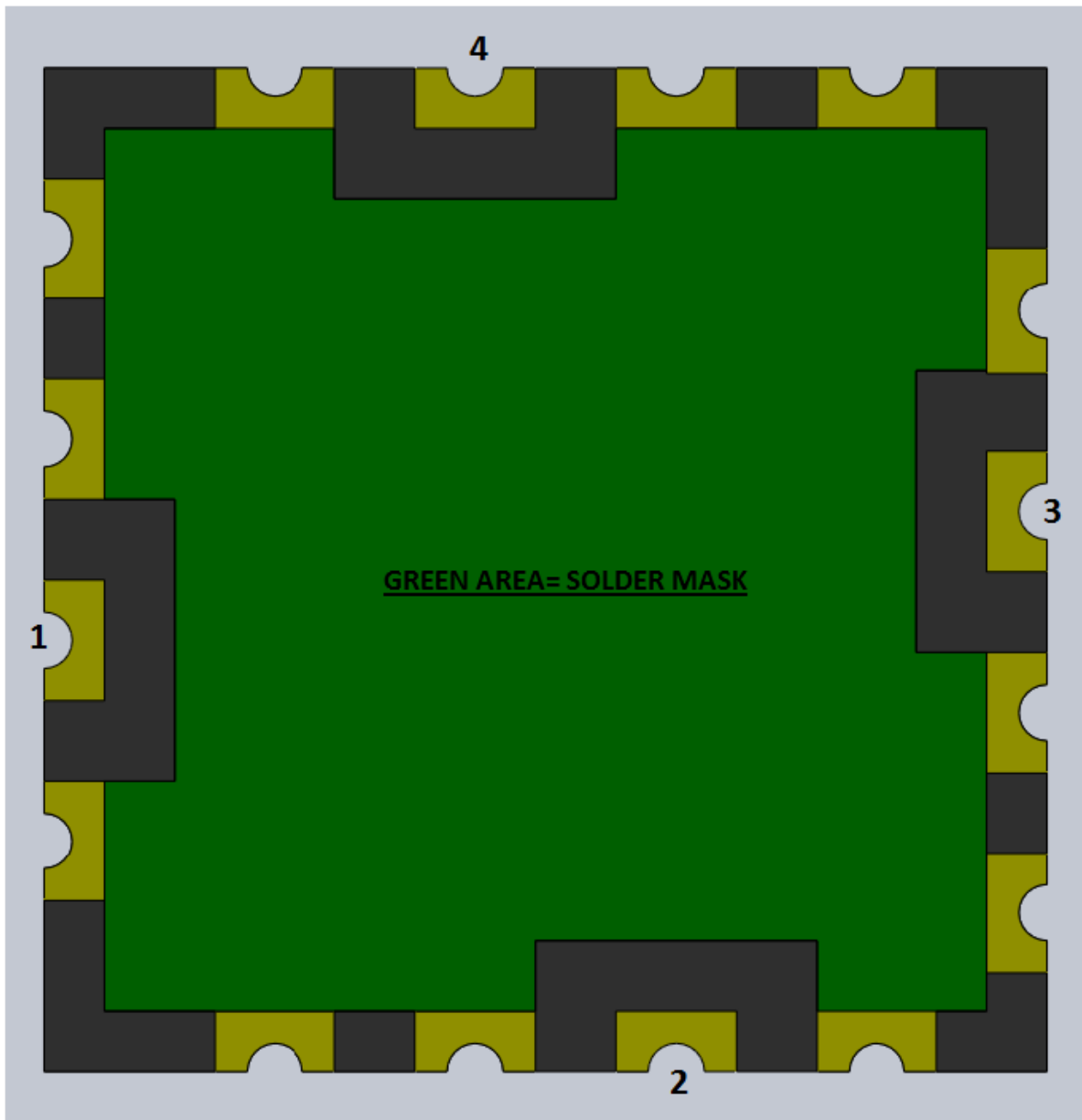
MOD PACKAGE

SIZE A	DWG. NO. 1	REV
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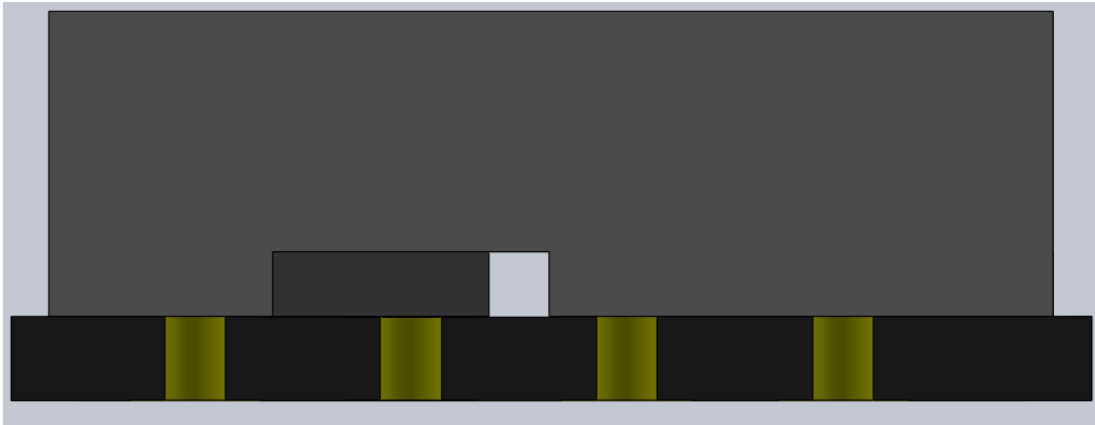
SCALE: 6:1	unit: inch	SHEET 2 OF 2
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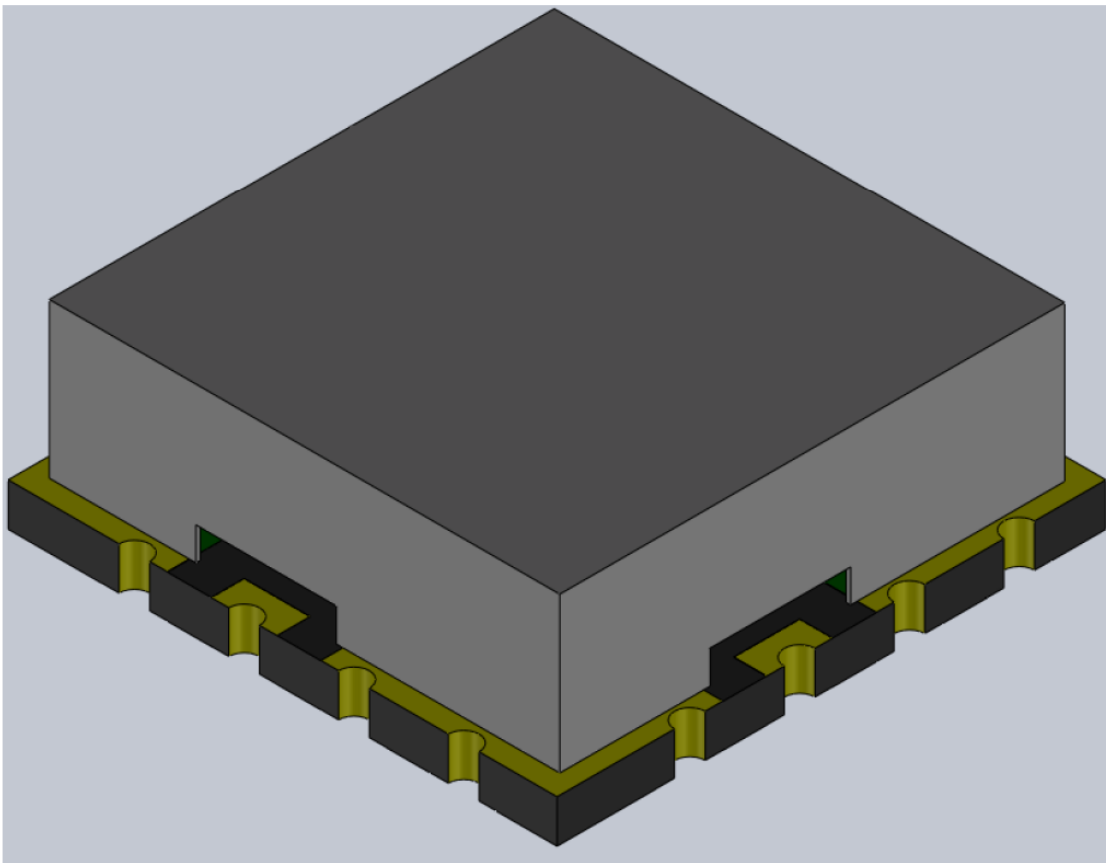
TOP VIEW



BOTTOM VIEW



SIDE VIEW



ISOMETRIC VIEW