VCO R038042SMUA5_MOD_180

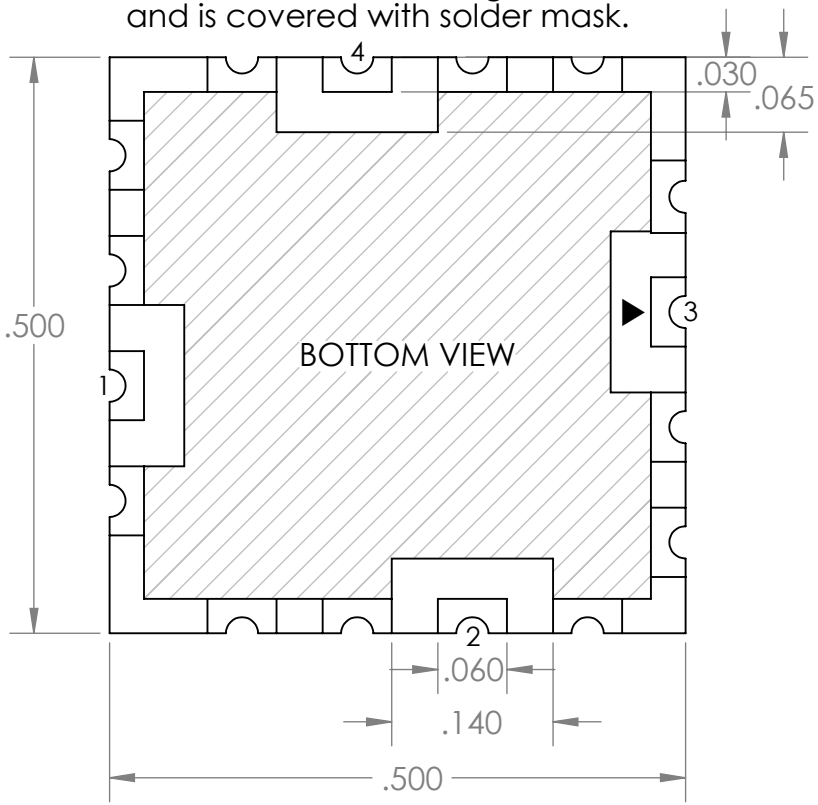
rev_0	initial rev
rev_1	package

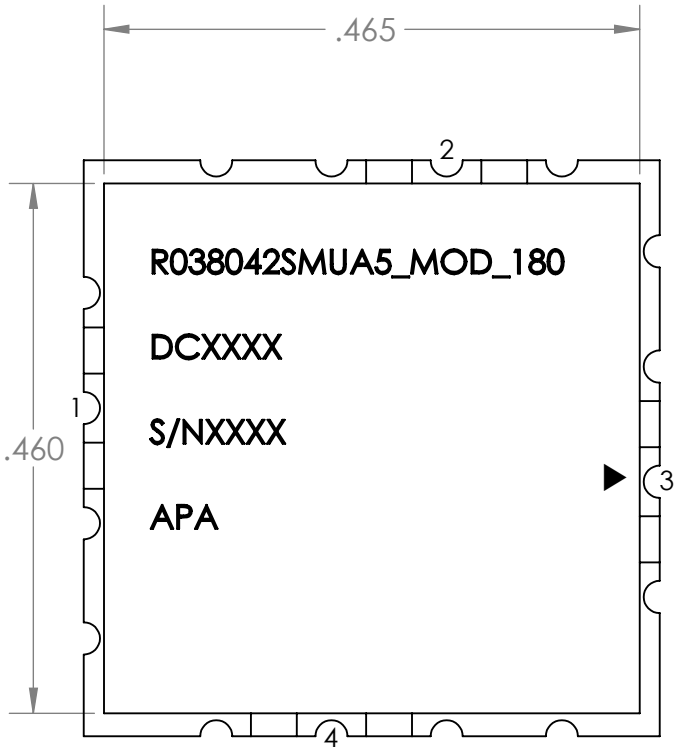
	MIN	TYP	MAX	UNITS	NOTES	Production Test	First Article Test
Frequency Range	380		420	MHz	1	..	..
Tuning Voltage	1		5	V	1	..	..
Modulation Sensitivity	11	14	20	MHz/V	1	..	..
Operates with Vtune = 0V					1	..	..
Output Power	-3	0	3	dBm	1	..	..
Phase Noise @							
1 KHz Offset		-84	-79	dBc/Hz	1	..	..
10 KHz Offset		-114	-109	dBc/Hz	1	..	..
25 KHz Offset		-122	-116	dBc/Hz	1	..	..
100 KHz Offset		-134	-129	dBc/Hz	1	..	..
1 MHz Offset		-154	-149	dBc/Hz	1	..	..
10 MHz Offset		-166	-161	dBc/Hz	1	..	..
Pushing		0.7	2	MHz/V	3	..	..
Pulling (12dB RL, any phase)		0.7	2	MHz_{p-p}	3	..	..
Modulation							
Bandwidth	0.3		3	KHz	3	..	..
Deviation	7		13	KHz/Vp-p	3	..	..
Input Impedance	3			kΩ	3	..	..
Distortion			1	%	3	..	..
Tuning Port Capacitance		100		pF	2	..	..
Harmonics		-13	-8	dBc	3	..	..
Vcc	4.75	5.00	5.25	V			
Icc		10	15	mA	1	..	..
Operating Temperature	-40		+85	C	3	..	..
Package		SMUA_MOD			6	..	..
LxW		0.500		inch sq.	5	..	..
Height		0.180		inch	5	..	..

Notes

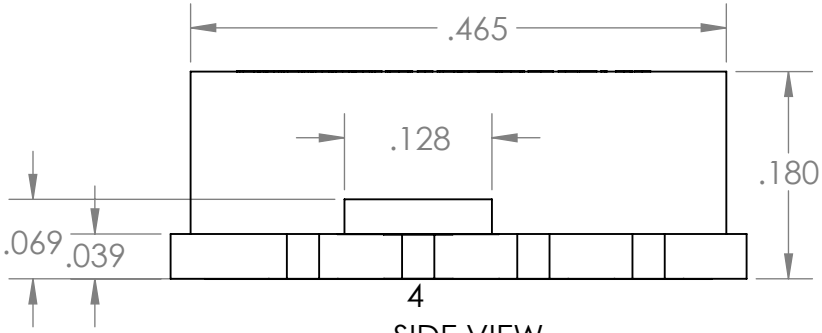
1. Tested in production, and guaranteed
2. Per current design, not a tested parameter
3. Sample tested from production lot
4. Not a tested or guaranteed design goal
5. By inspection
6. RoHS compliant

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

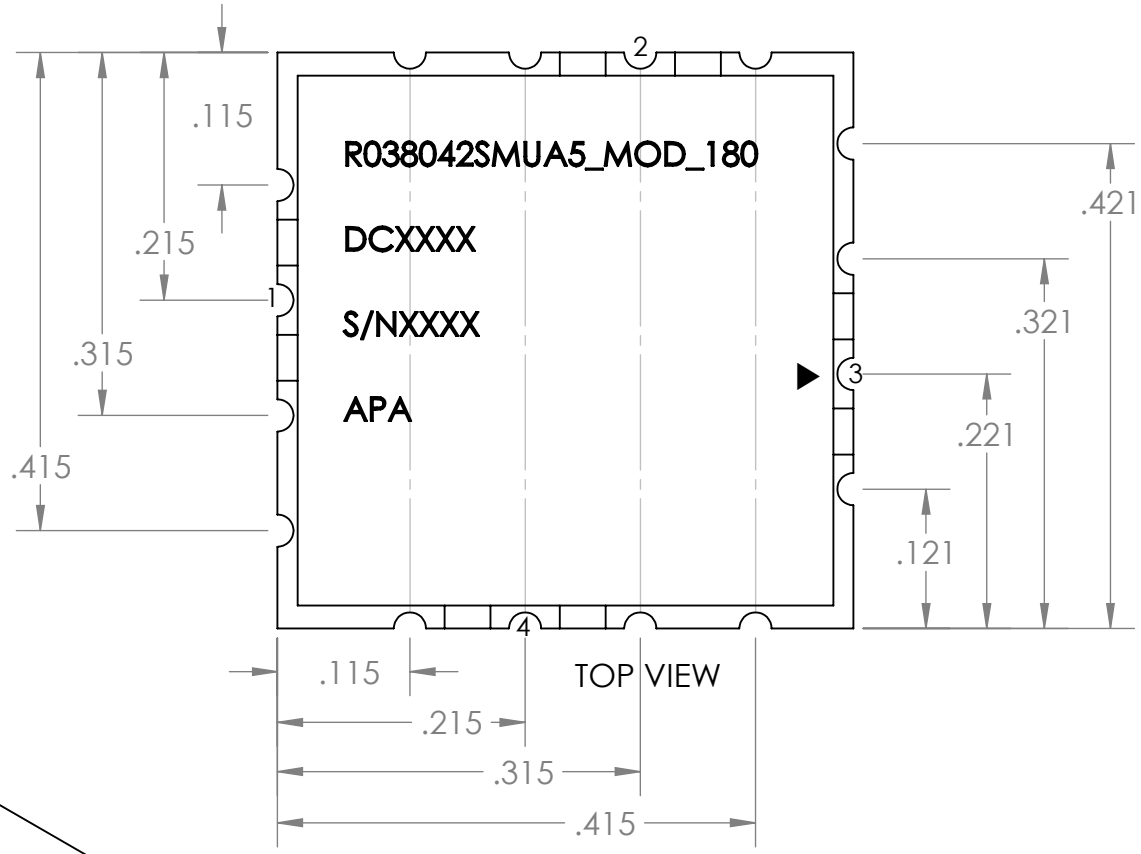
	NAME	DATE
DRAWN	Glenn Epps	07/07/2017

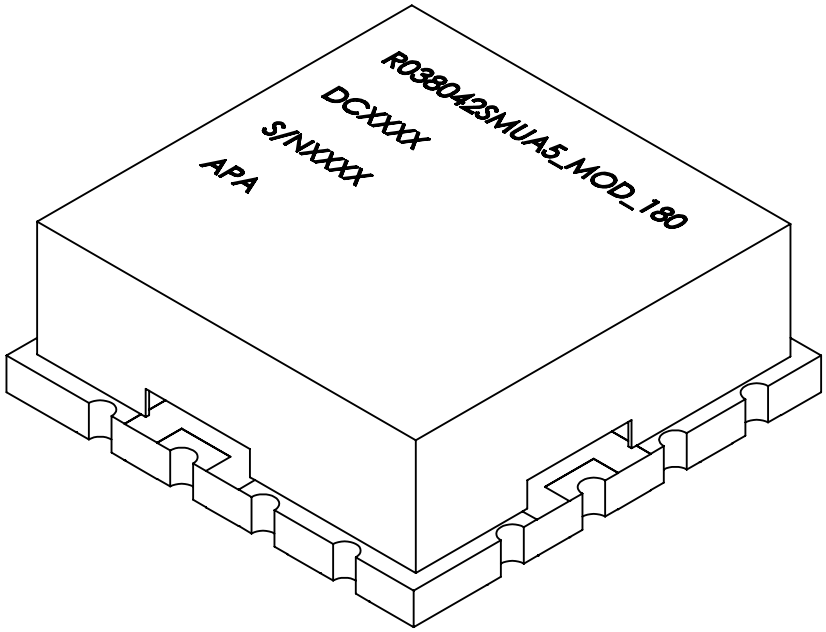
COMMENTS:
Unless otherwise specified all dimensions are in inches.

TITLE: R038042SMUA5_MOD_180

SIZE	DWG. NO.	REV
A	1	

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





ISOMETRIC VIEW

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

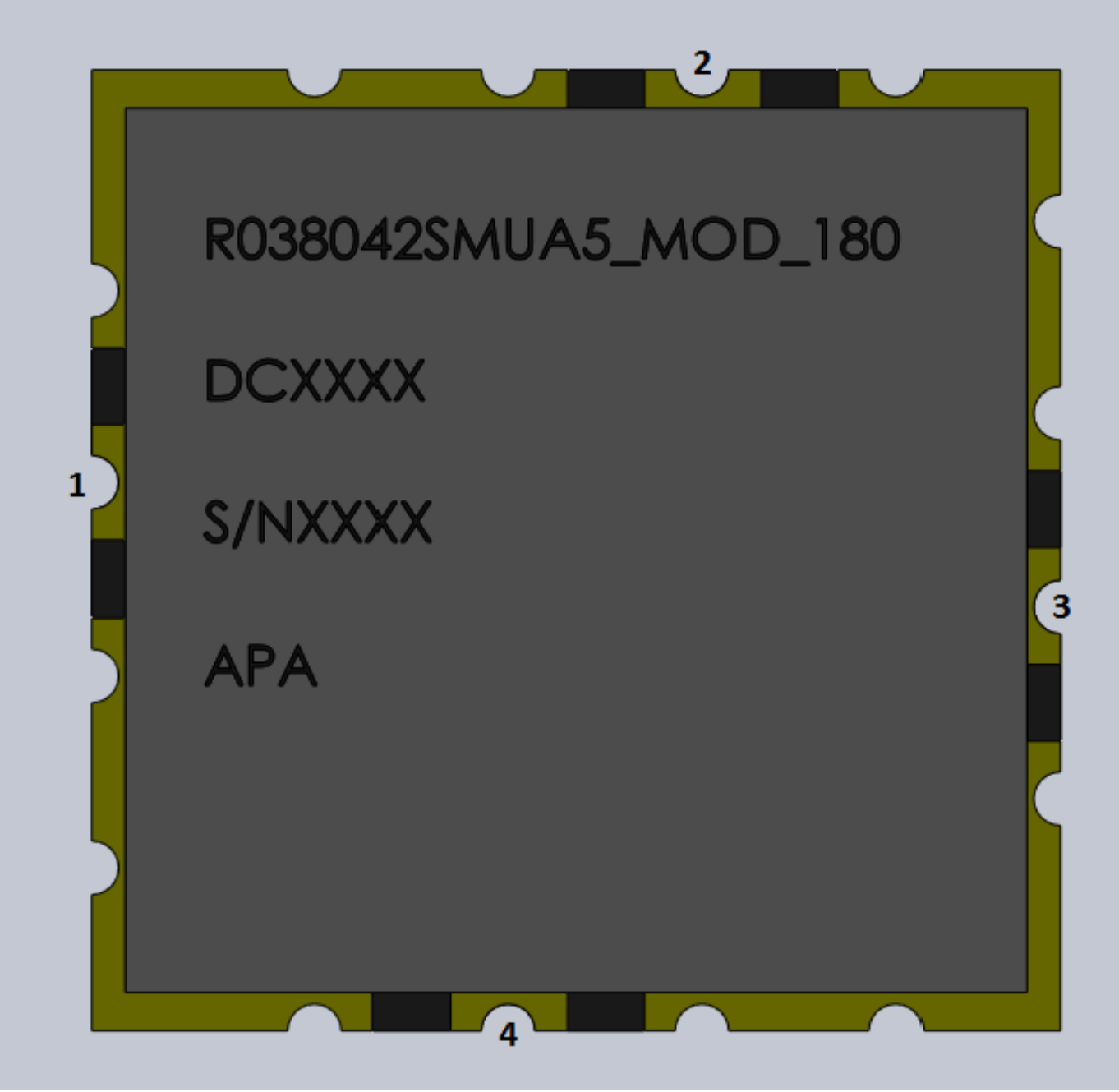
	NAME	DATE
DRAWN	Glenn Epps	07/07/2017

COMMENTS:
Unless otherwise specified all dimensions are in inches.

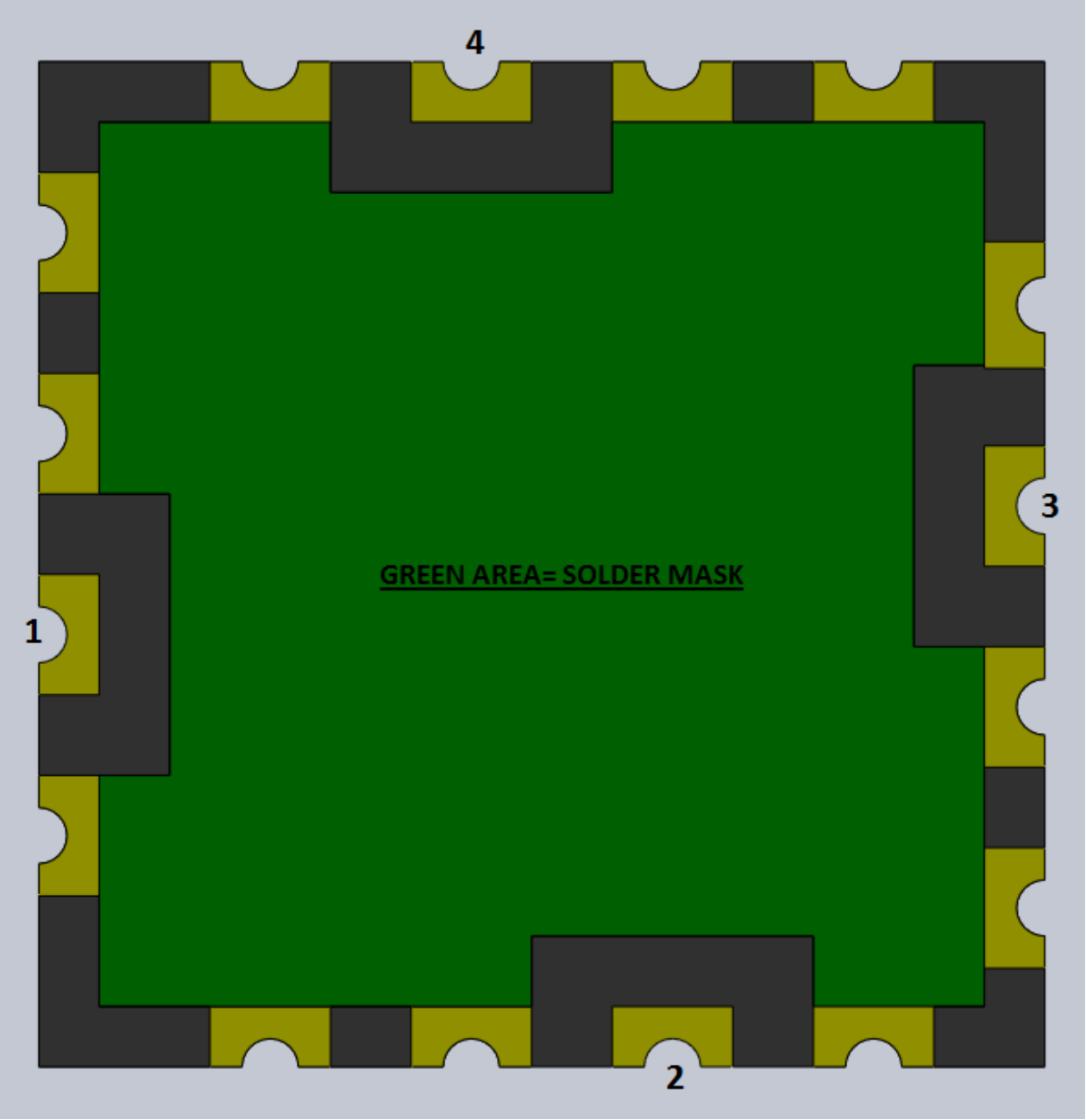
TITLE:
R038042SMUA5_MOD_180

SIZE	DWG. NO.	REV
A	1	

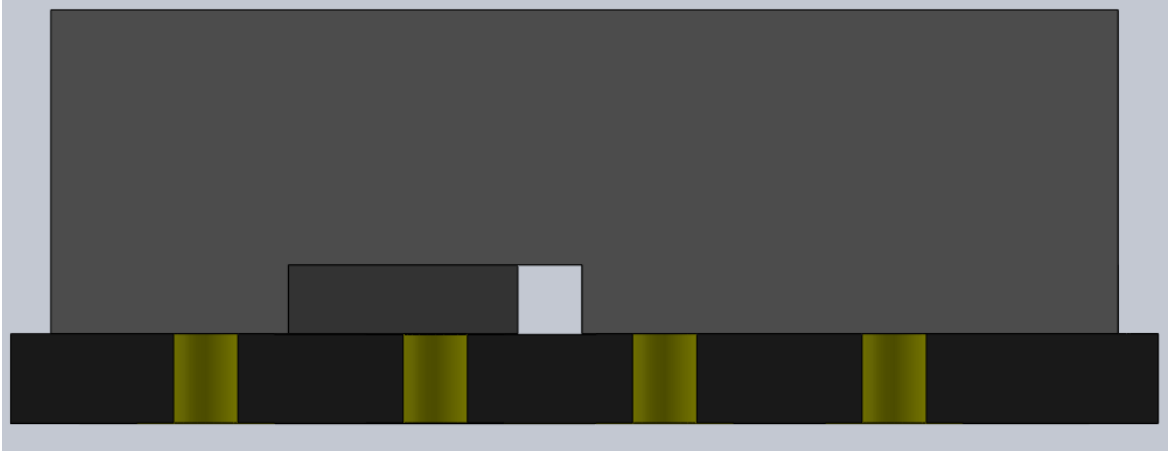
SCALE: 6:1 | unit: inch | SHEET 2 OF 2



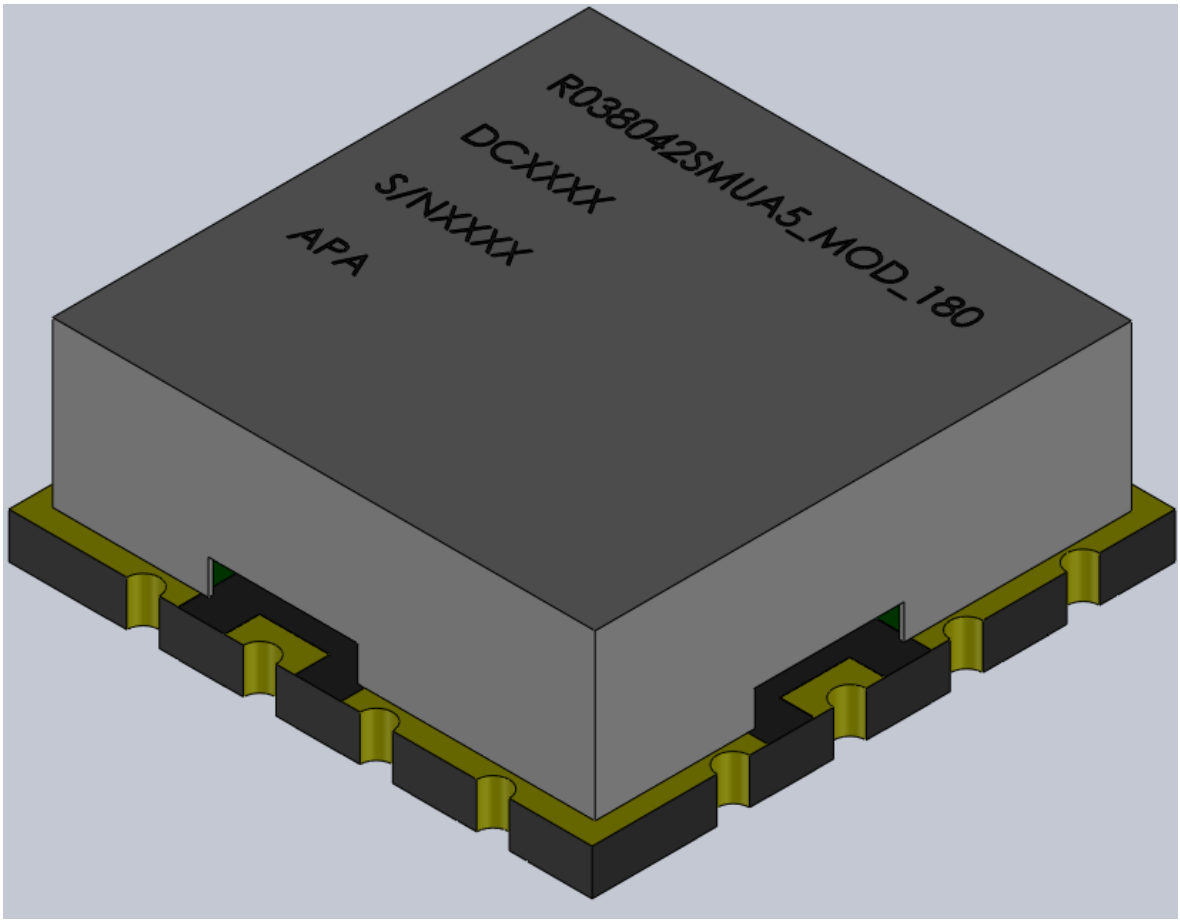
TOP VIEW



BOTTOM VIEW



SIDE VIEW



ISOMETRIC VIEW