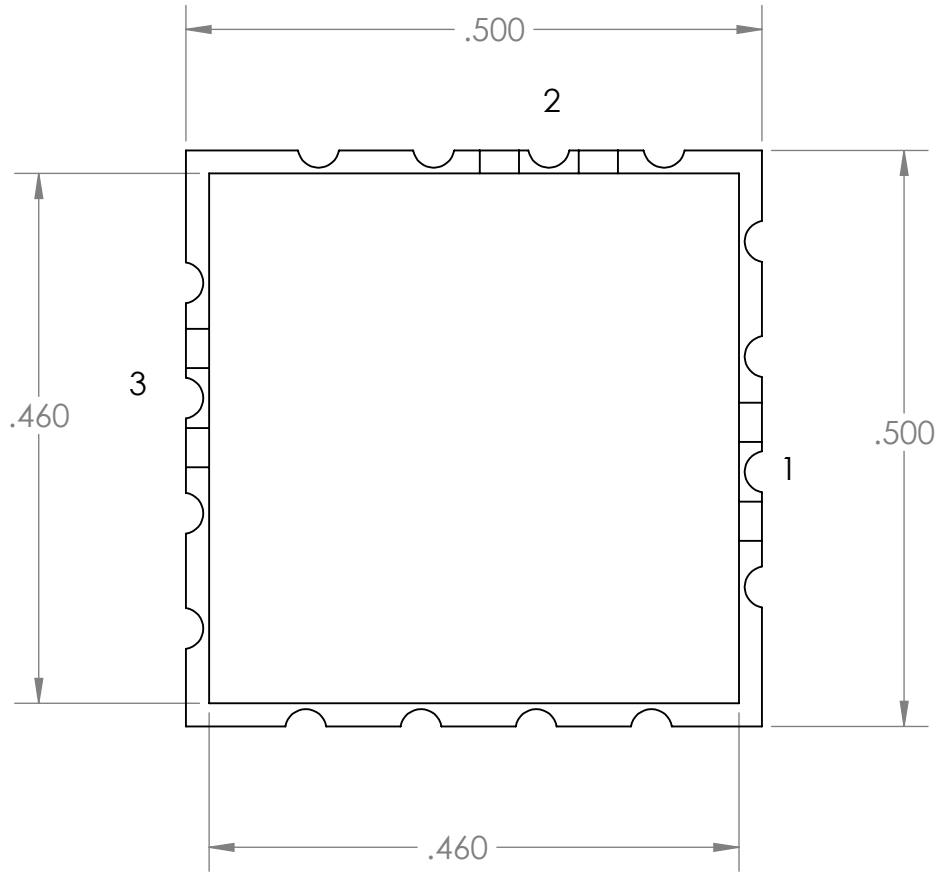
VCO R245320SMUA5_180

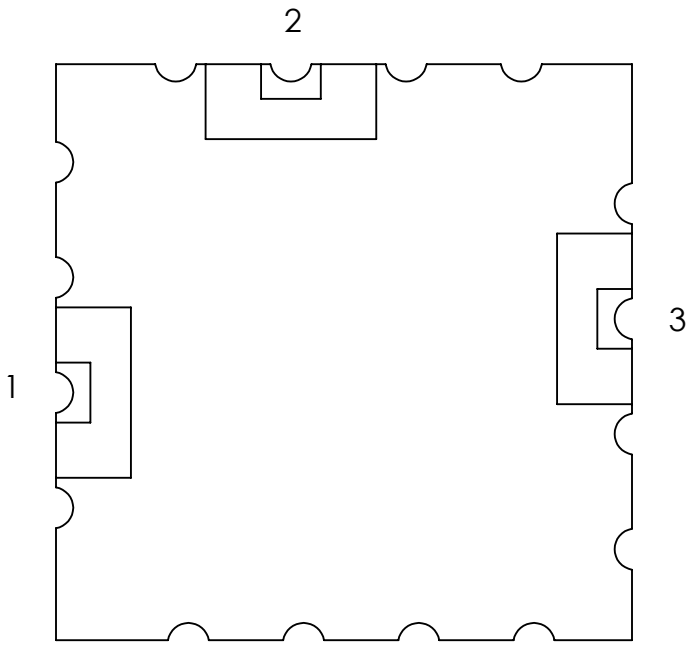
rev_0 initial rev

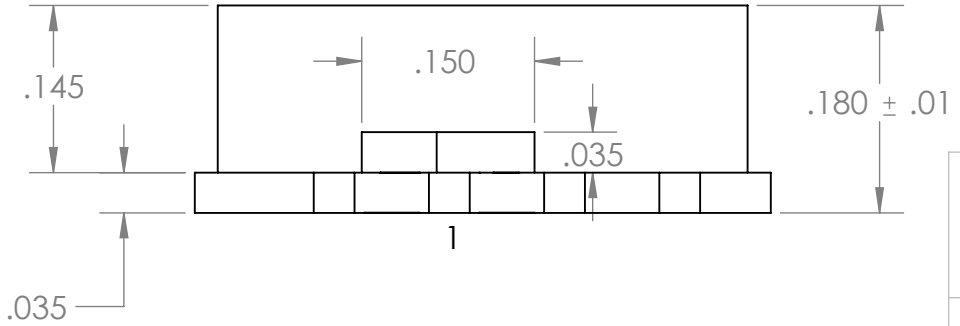
	MIN	TYP	MAX	UNITS	NOTES	Production Test	First Article Test
Frequency Range	2450		3200	MHz	1	..	..
Frequency at Vtune = 2V	2480	2520	2545	MHz	1	..	..
Frequency at Vtune = 7V	3085	3120	3165	MHz	1	..	..
Tuning Voltage	0		10	V	1	..	..
Modulation Sensitivity	65	75	85	MHz/V	1,7	..	..
Operates with Vtune = 0V					1	..	..
Output Power	7	9	11	dBm	1	..	..
Phase Noise @							
1 KHz Offset		-72	-67	dBc/Hz	1	..	..
10 KHz Offset		-98	-93	dBc/Hz	1	..	..
100 KHz Offset		-118	-113	dBc/Hz	1	..	..
1 MHz Offset		-138	-133	dBc/Hz	1	..	..
10 MHz Offset		-158	-153	dBc/Hz	1	..	..
Pushing		1.5	3.0	MHz/V	3	..	..
Pulling (12dB RL, any phase)		3	5	MHz_{p-p}	3	..	..
Modulation Bandwidth		3		MHz	4	..	..
Tuning Port Capacitance		20		pF	2	..	..
Harmonics		-18	-12	dBc	3	..	..
Vcc		5.0		V			
Icc		27		mA	1,7	..	..
Operating Temperature	-40		+85	C	3	..	..
Package		SMUA			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
7. Design goal subject to change







CONTACT ASSIGNMENTS
1. RF OUT
2. SUPPLY INPUT
3. TUNING VOLTAGE INPUT
ALL OTHER CONTACTS ARE GROUND

APA Wireless TECHNOLOGIES

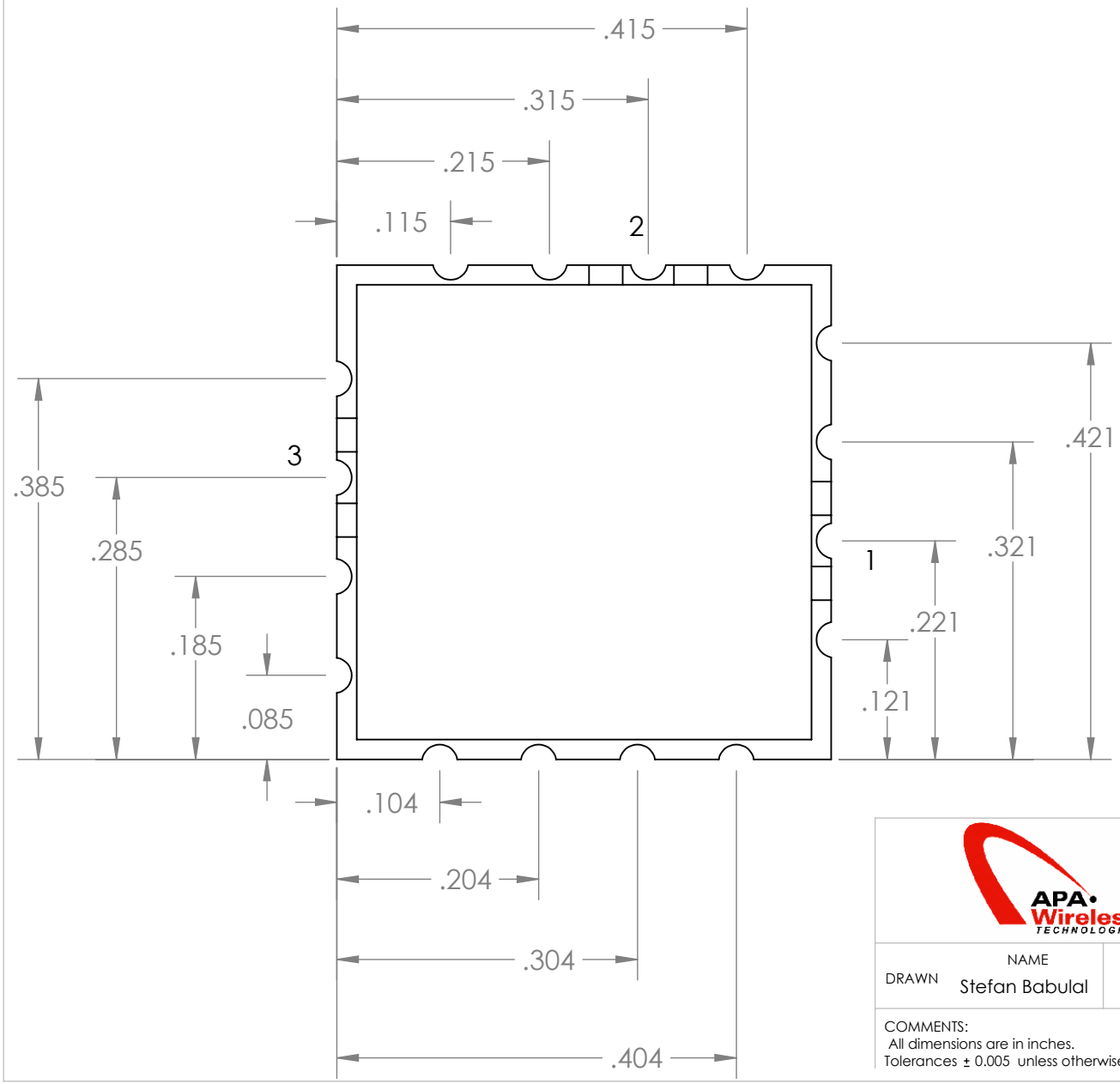
	NAME	DATE
DRAWN	Stefan Babulal	2/17/2017

COMMENTS:
All dimensions are in inches.
Tolerances ± 0.005 unless otherwise noted

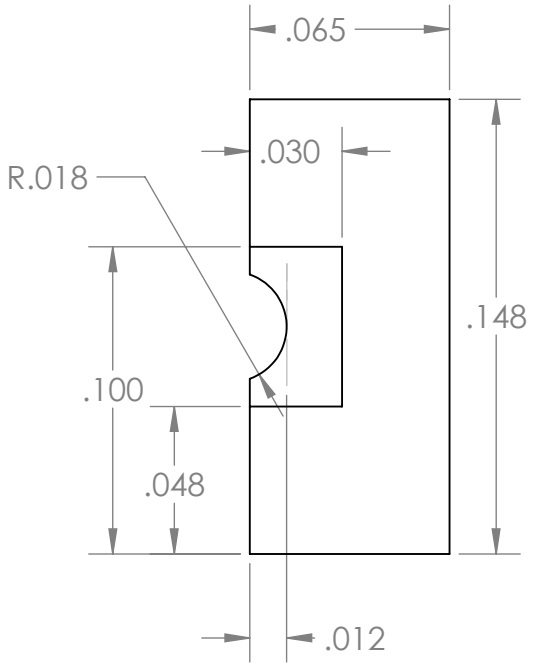
TITLE: SMUA_180

SIZE	DWG. NO.	REV
A	1	

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

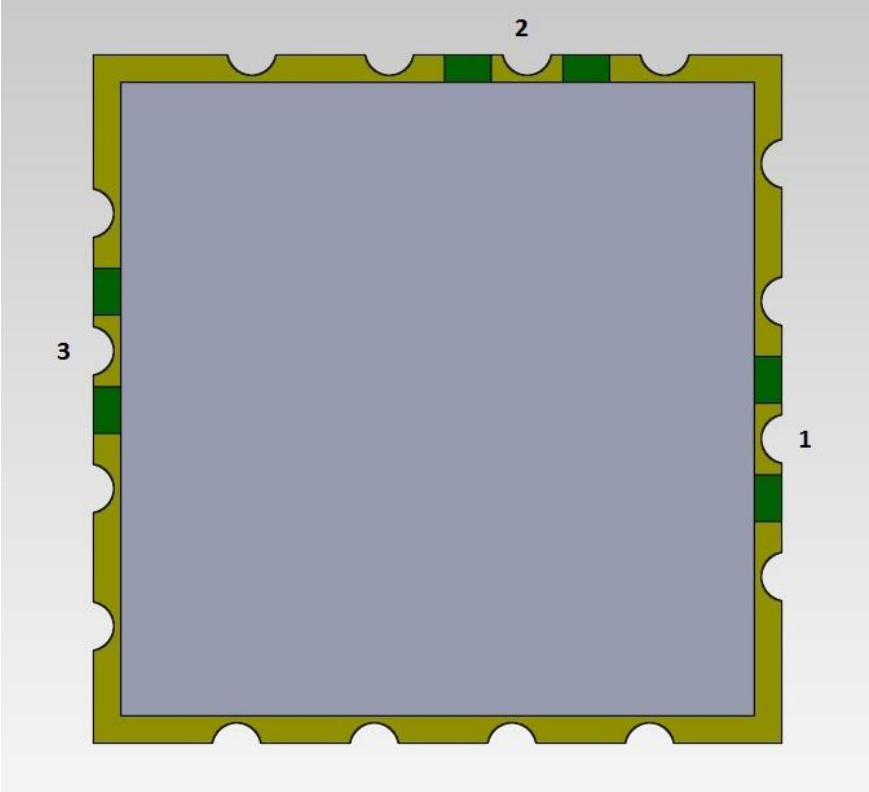


CONTACT DIMENSIONS

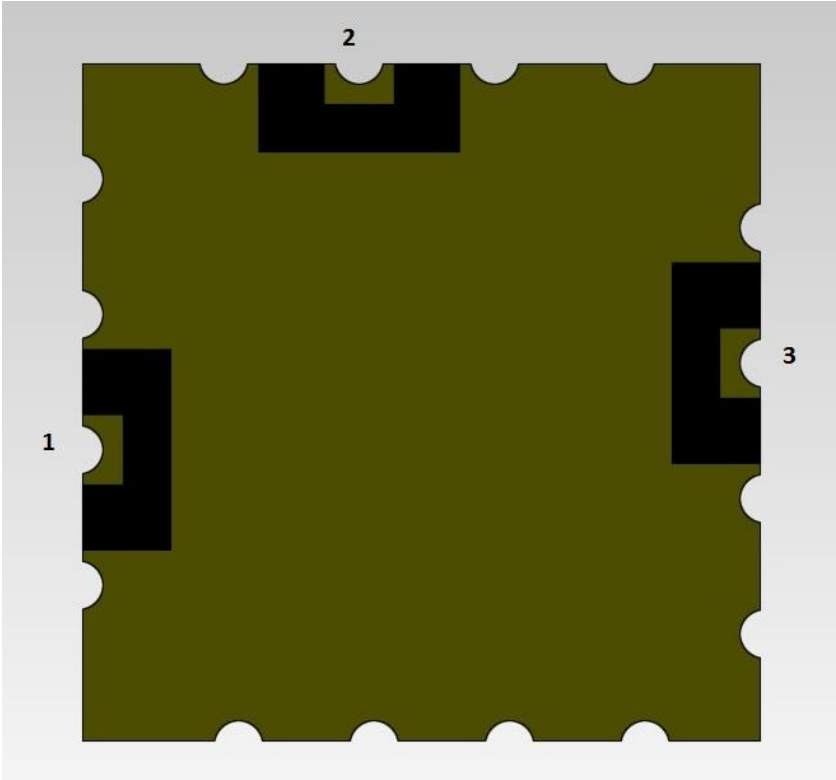


Scale: 16:1

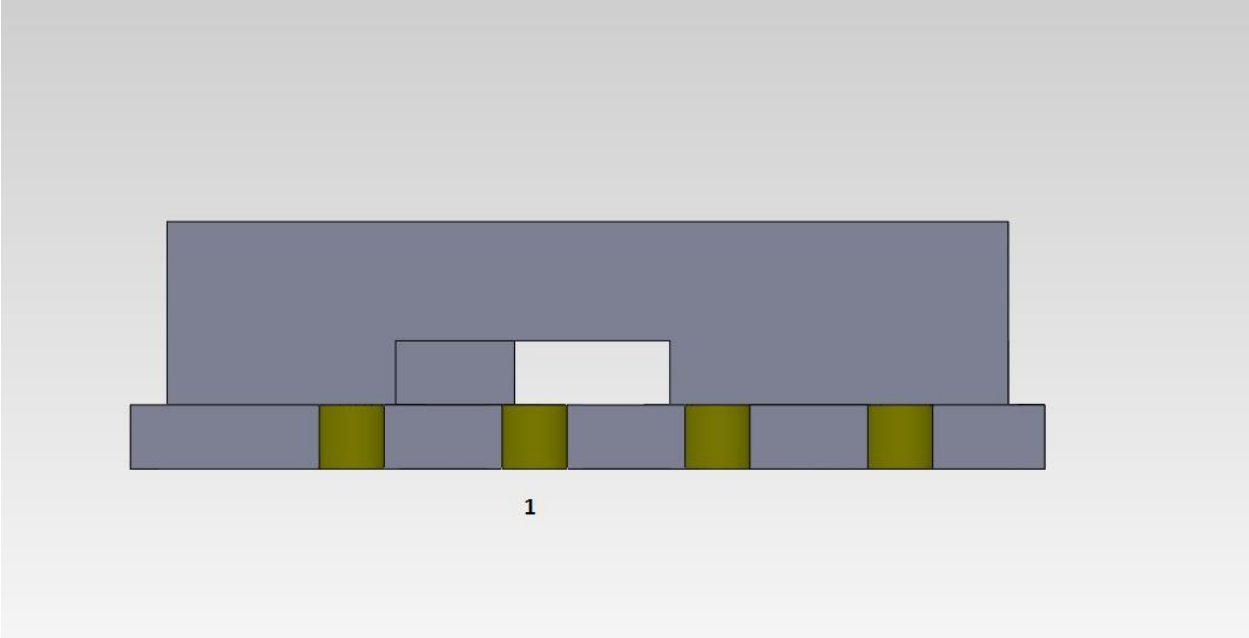
APA Wireless Technologies		TITLE: SMUA_180
DRAWN	NAME: Stefan Babulal	DATE: 2/17/2017
COMMENTS: All dimensions are in inches. Tolerances ± 0.005 unless otherwise noted		
SIZE: A	DWG. NO.: 1	REV
SCALE: 6:1	unit: inch	SHEET 2 OF 2



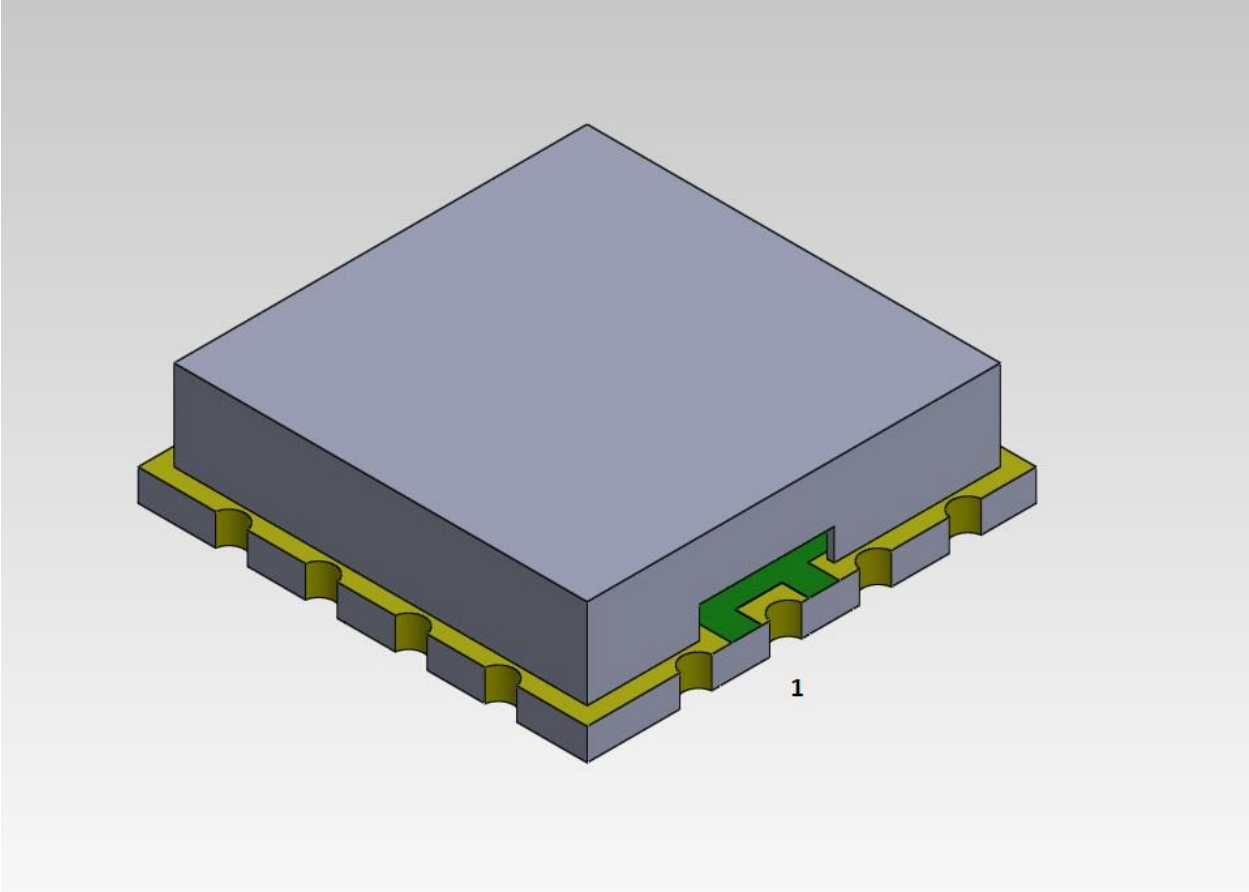
TOP VIEW



BOTTOM VIEW (INVERTED)



SIDE VIEW



ISOMETRIC VIEW