



VCO R1000SMUAM6CR

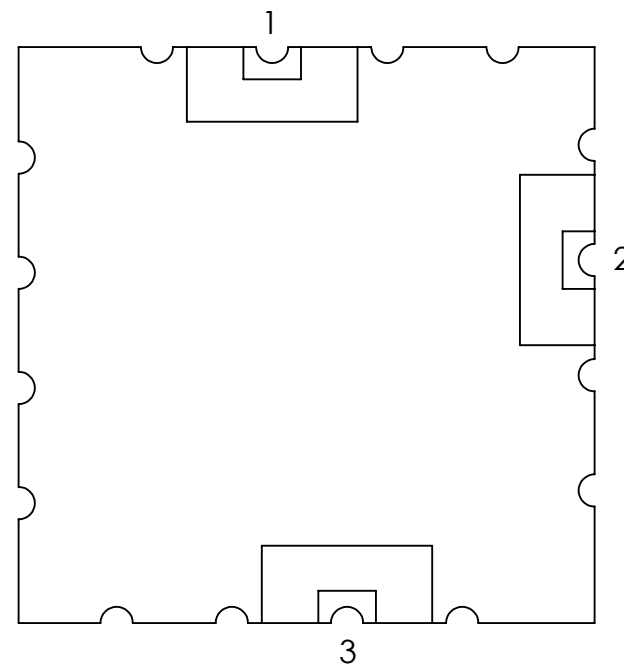
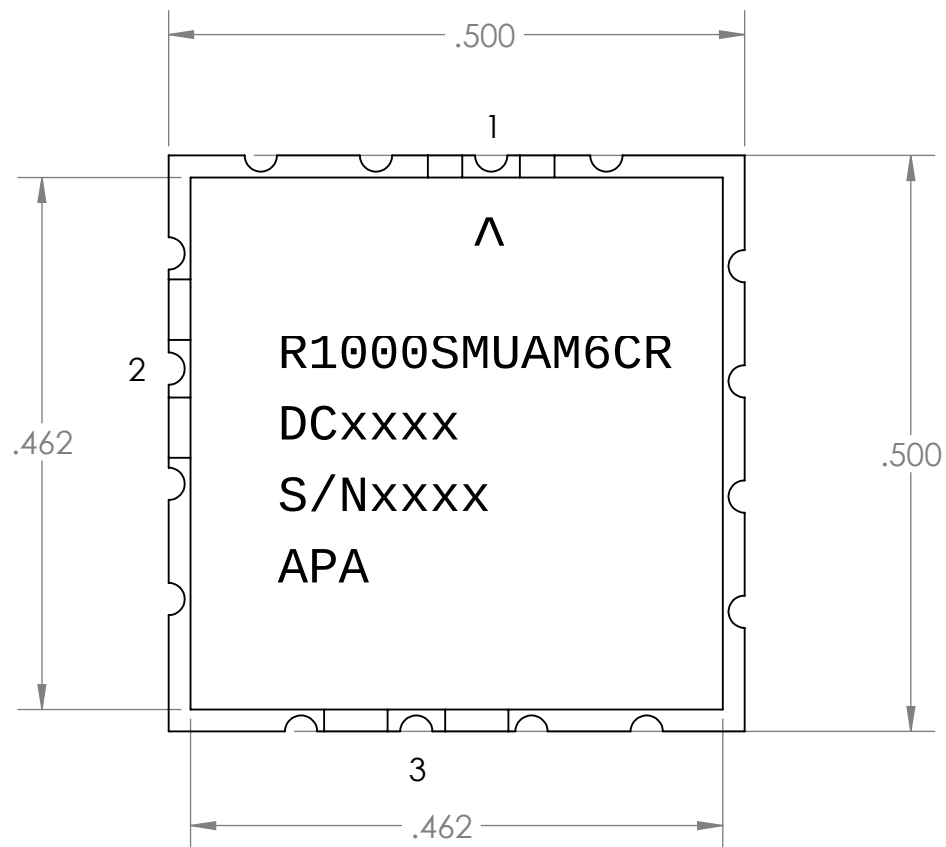
rev_0
rev_1

initial rev
spurs, bw, Kv

	<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		1000		MHz	1,8	..	..
Tuning Voltage	0.5		5	V	1,8	..	..
Modulation Sensitivity		5		MHz/V	1	..	..
Operates with Vtune = 0V					1	..	..
Output Power	-1	1	3	dBm	1	..	..
Phase Noise @							
1 KHz Offset		-96	-91	dBc/Hz	1	..	..
10 KHz Offset		-126	-121	dBc/Hz	1	..	..
100 KHz Offset		-146	-141	dBc/Hz	1	..	..
1 MHz Offset		-162	-157	dBc/Hz	1	..	..
10 MHz Offset				dBc/Hz	1	..	..
Pushing		0.04	0.1	MHz/V	3	..	..
Pulling (12dB RL, any phase)		0.1	0.5	MHz _{p-p}	3	..	..
Non Harmonic Spurious		-90		dBc	2	..	..
Modulation Bandwidth (3dB)		150		MHz	4	..	..
Tuning Port Capacitance		20	100	pF	2	..	..
Harmonics		-22	-14	dBc	3	..	..
Vcc		6.0		V		..	..
Icc			35	mA	1	..	..
Operating Temperature	-40		+85	C	3	..	..
Package		SMUAM			6,9	..	..
LxW		0.500		inch sq.	5	..	..
Height		0.220		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
8. Frequency increases linearly with increasing applied Vtune
9. Solder mask on bottom layer



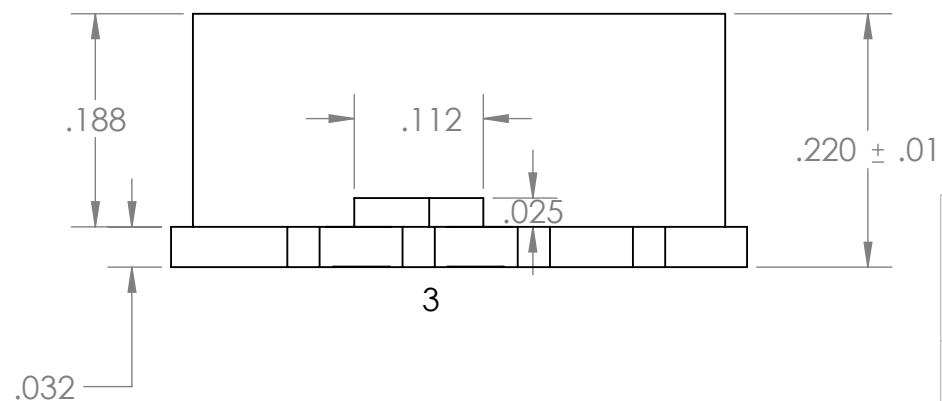
CONTACT ASSIGNMENTS

1. RF OUT

2. VCC

3. V-TUNE

ALL OTHER CONTACTS ARE
GROUND



DRAWN NAME
Stefan Babulal

DATE
2/20/2017

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

TITLE:

SMUA PACKAGE

SIZE
A

DWG. NO.

1

REV

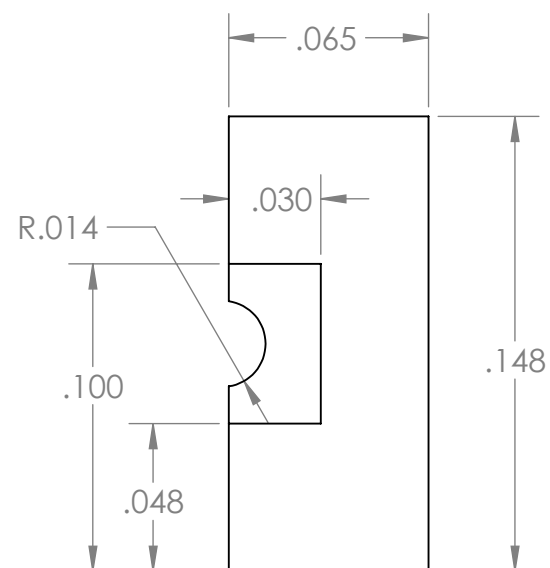
SCALE: 6:1

unit: inch

SHEET 1 OF 2



CONTACT DIMENSIONS



Scale: 16:1



DRAWN	NAME Stefan Babulal	DATE 2/20/2017
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COMMENTS:
All dimensions are in inches.
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TITLE:

SMUA PACKAGE

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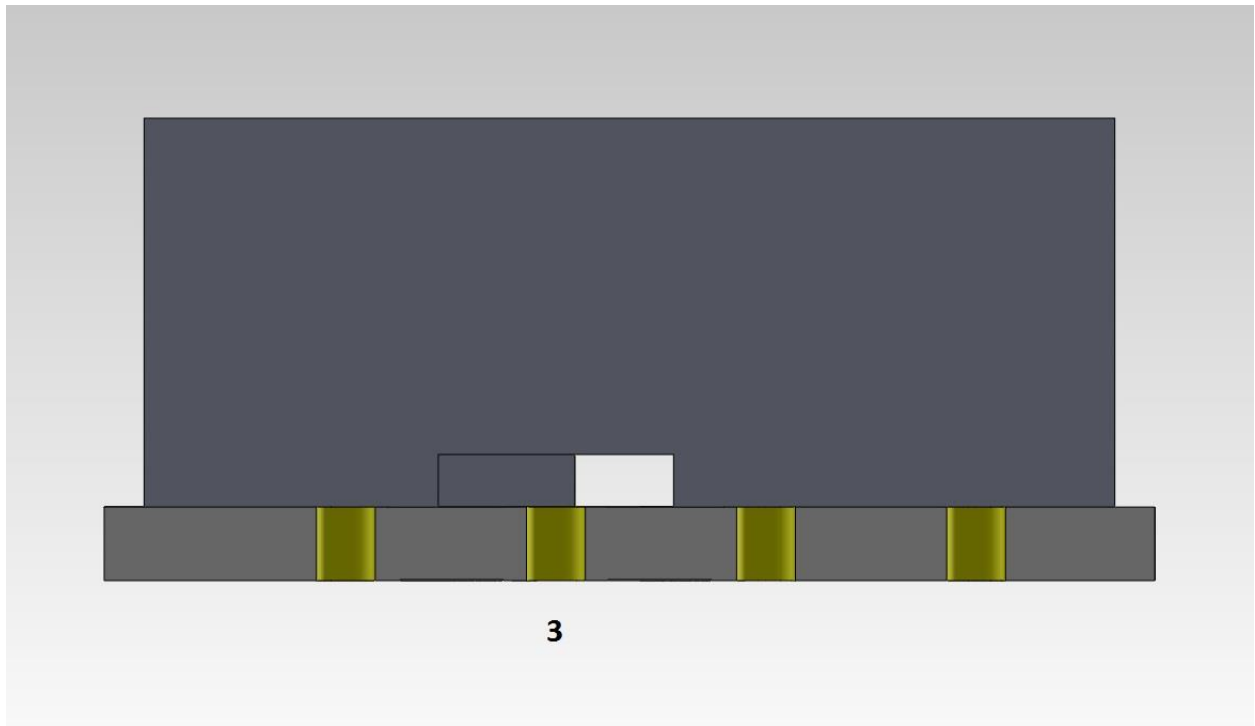
SCALE: 6:1	unit: inch	SHEET 2 OF 2
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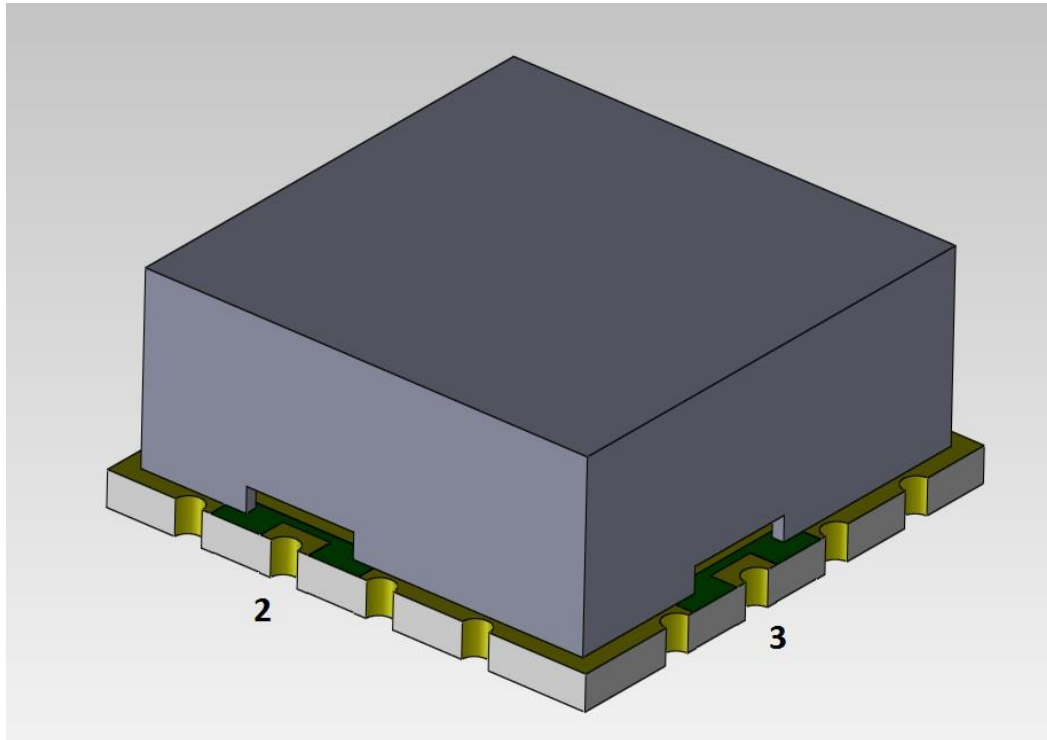
TOP VIEW



BOTTOM VIEW



SIDE VIEW



ISOMETRIC VIEW