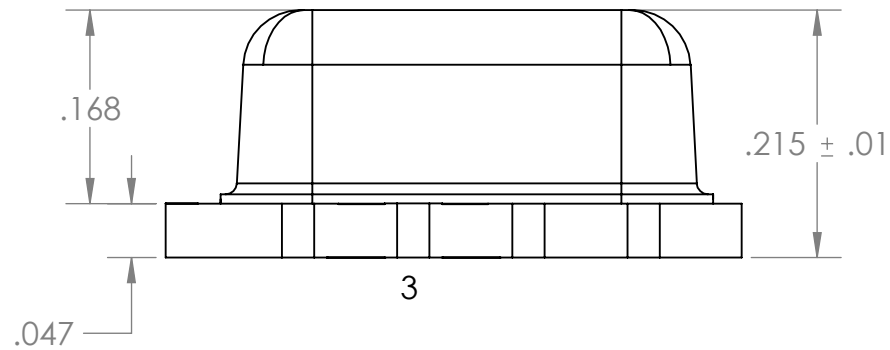
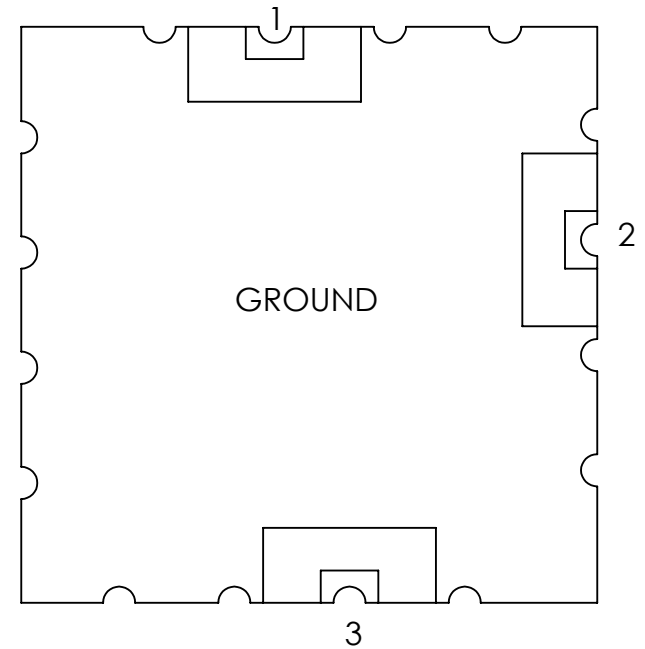
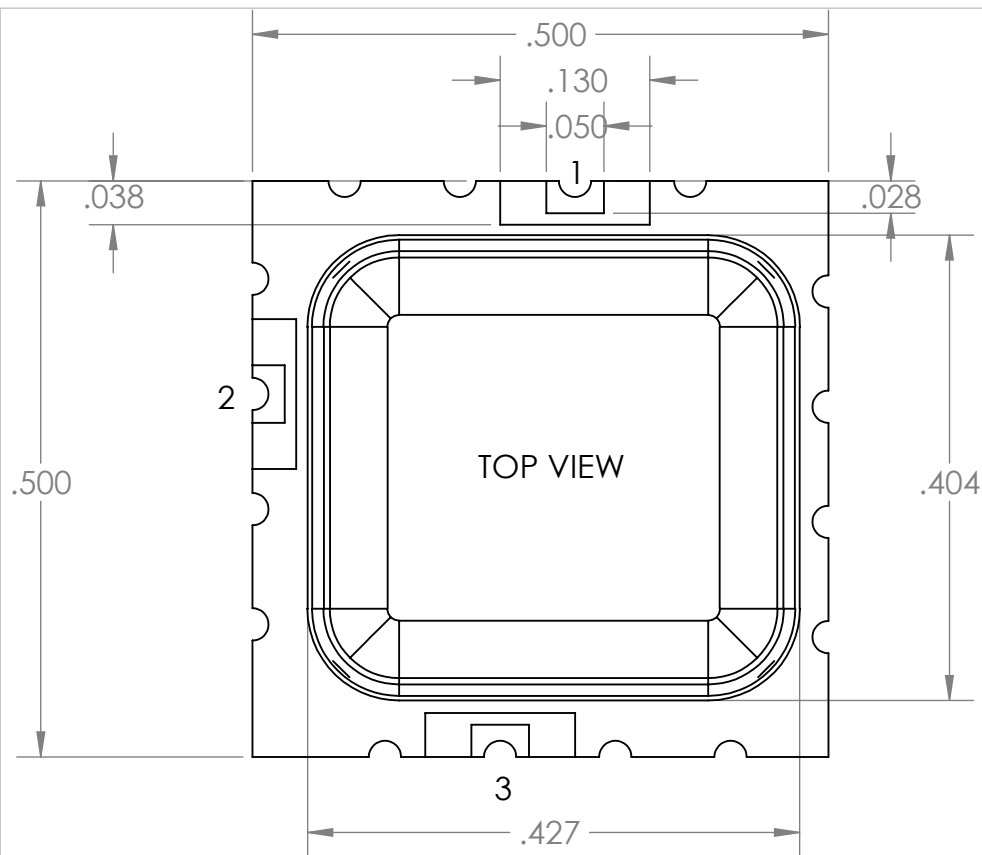




|                              | <u>MIN</u> | <u>TYP</u> | <u>MAX</u> | <u>UNITS</u>       | <u>NOTES</u> | <u>Production Test</u> | <u>First Article Test</u> |
|------------------------------|------------|------------|------------|--------------------|--------------|------------------------|---------------------------|
| Frequency Range              |            | 4000       |            | MHz                | 1            | ..                     | ..                        |
| Tuning Voltage               | 0.5        |            | 4.5        | V                  | 1            | ..                     | ..                        |
| Modulation Sensitivity       | 5          | 7          | 10         | MHz/V              | 1            | ..                     | ..                        |
| Operates with Vtune = 0V     |            |            |            |                    | 1            | ..                     | ..                        |
| Output Power                 | 6          | 8          | 10         | dBm                | 1            | ..                     | ..                        |
| Phase Noise @                |            |            |            |                    |              |                        |                           |
| 1 KHz Offset                 |            | -88        | -84        | dBc/Hz             | 1            | ..                     | ..                        |
| 10 KHz Offset                |            | -114       | -110       | dBc/Hz             | 1            | ..                     | ..                        |
| 100 KHz Offset               |            | -134       | -130       | dBc/Hz             | 1            | ..                     | ..                        |
| 1 MHz Offset                 |            | -154       | -150       | dBc/Hz             | 1            | ..                     | ..                        |
| Pushing                      |            | 0.3        | 0.7        | MHz/V              | 3            | ..                     | ..                        |
| Pulling (12dB RL, any phase) |            | 0.2        | 0.5        | MHz <sub>p-p</sub> | 3            | ..                     | ..                        |
| Modulation Bandwidth         |            | 1          |            | MHz                | 4            | ..                     | ..                        |
| Tuning Port Capacitance      |            | 10         | 22         | pF                 | 2            | ..                     | ..                        |
| Harmonics                    |            | -20        | -10        | dBc                | 3            | ..                     | ..                        |
| Vcc                          |            | 8.0        |            | V                  | 5            | ..                     | ..                        |
| Icc                          |            | 34         |            | mA                 | 1            | ..                     | ..                        |
| Operating Temperature        | -40        |            | +85        | C                  | 3            | ..                     | ..                        |
| Package                      |            | SMUAM-SH   |            |                    | 6,8,9        | ..                     | ..                        |
| 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. Solder mask on bottom of unit
9. Foam filled using FFP



### CONTACT ASSIGNMENTS

1. RF OUT

2. VCC

3. V-TUNE

ENTIRE BOTTOM AREA IS GROUND  
EXCLUDING PORTS



DRAWN NAME  
Stefan Babulal

DATE  
2/22/2017

COMMENTS:  
All dimensions are in inches  
Tolerances are  $\pm 0.005$ " unless otherwise noted

TITLE:

SH PCB AND SHIELD

SIZE  
**A**

DWG. NO.

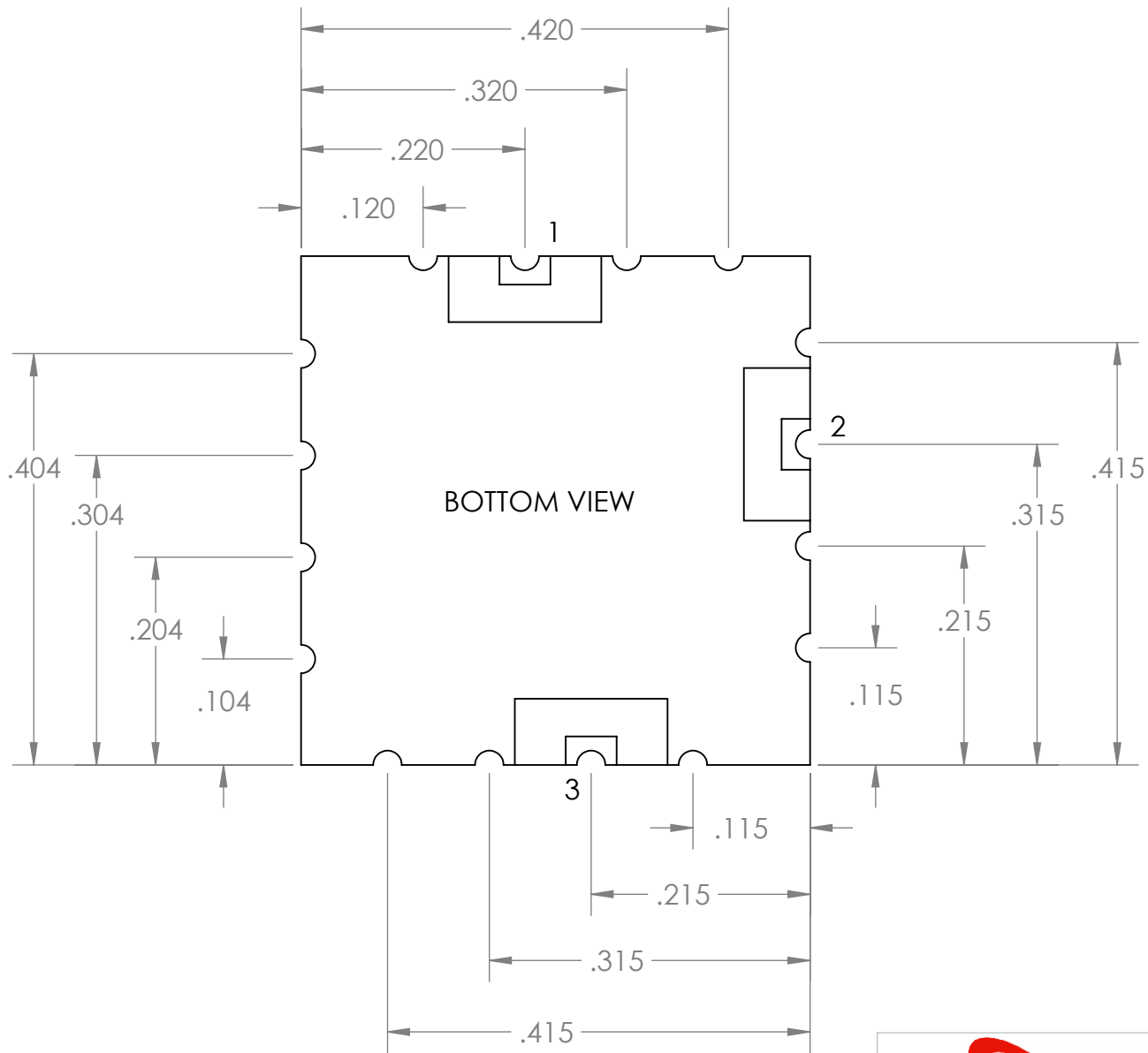
1

REV

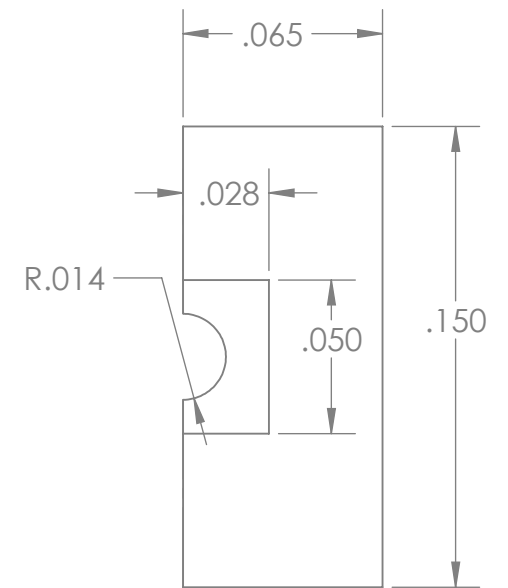
SCALE: 6:1

unit: inch

SHEET 1 OF 2



# CONTACT DIMENSIONS



SCALE 16:1



|       |                        |                   |
|-------|------------------------|-------------------|
| DRAWN | NAME<br>Stefan Babulal | DATE<br>2/22/2017 |
|-------|------------------------|-------------------|

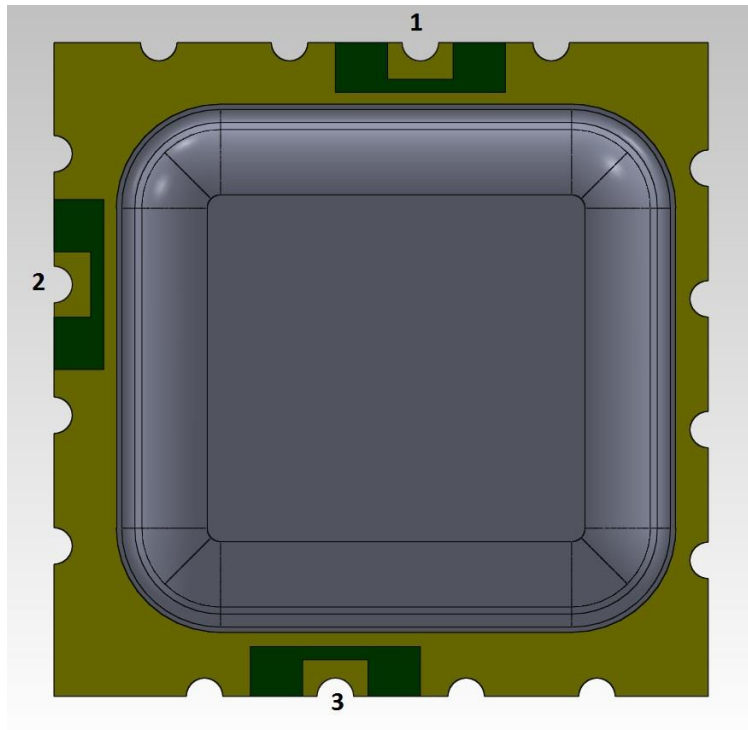
COMMENTS:  
All dimensions are in inches  
Tolerances are  $\pm 0.005"$  unless otherwise noted

TITLE:

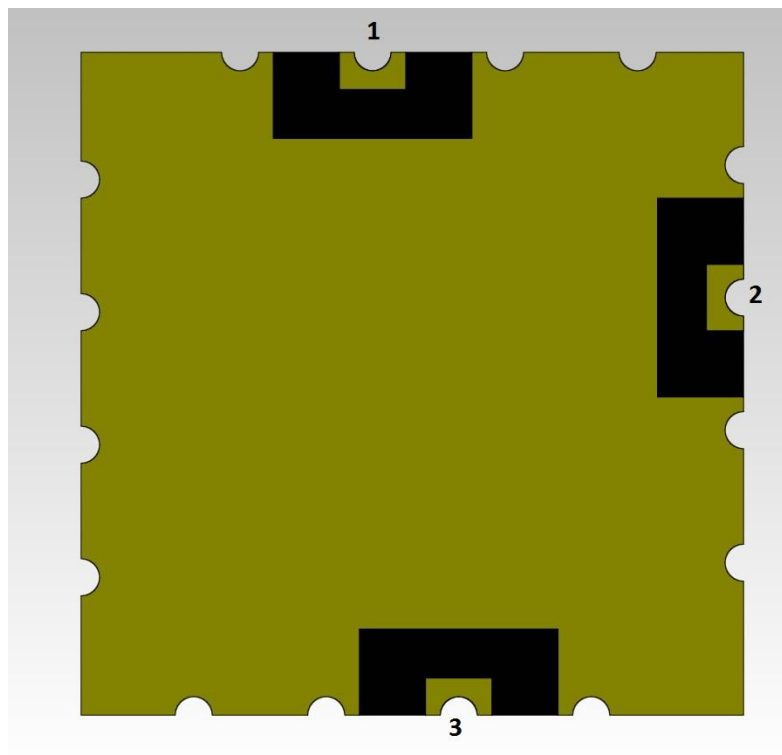
SH PCB AND SHIELD

|                  |               |     |
|------------------|---------------|-----|
| SIZE<br><b>A</b> | DWG. NO.<br>1 | REV |
|------------------|---------------|-----|

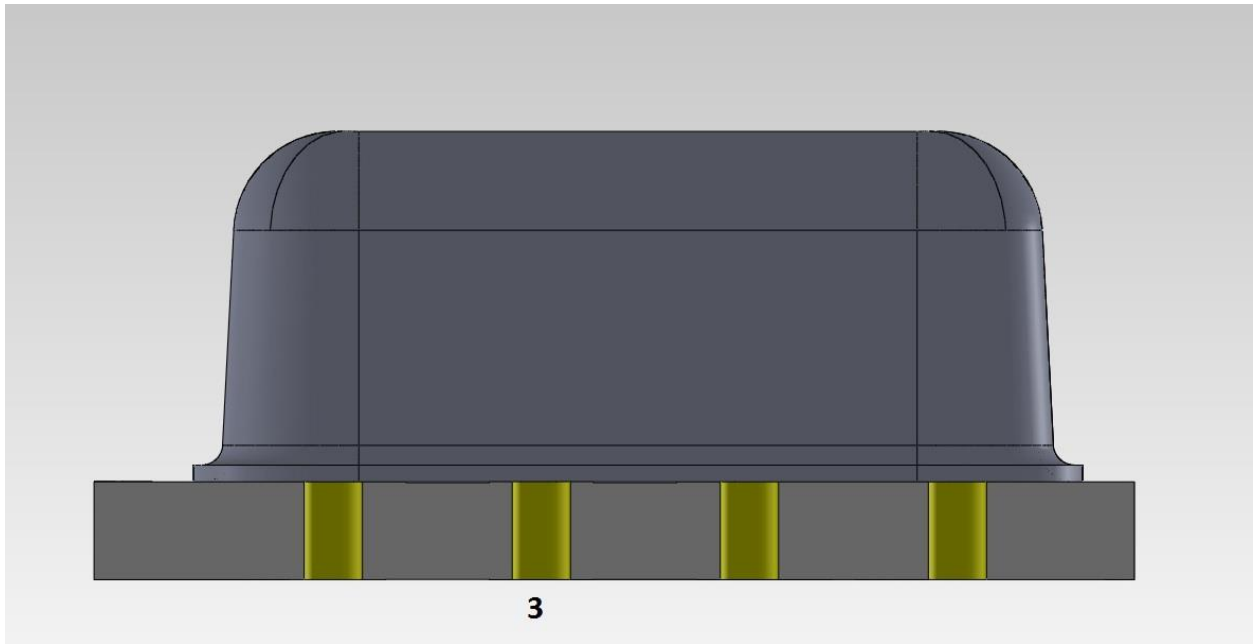
|            |            |              |
|------------|------------|--------------|
| SCALE: 6:1 | unit: inch | SHEET 2 OF 2 |
|------------|------------|--------------|



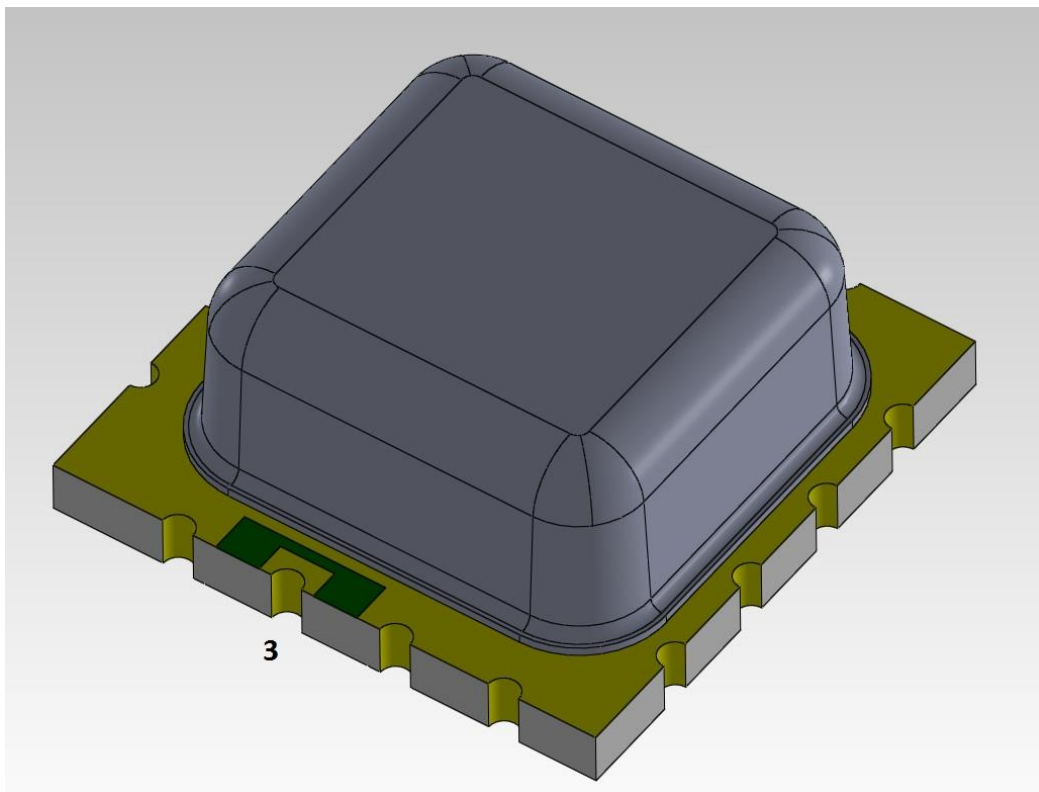
TOP VIEW



BOTTOM VIEW



SIDE VIEW



ISOMETRIC VIEW