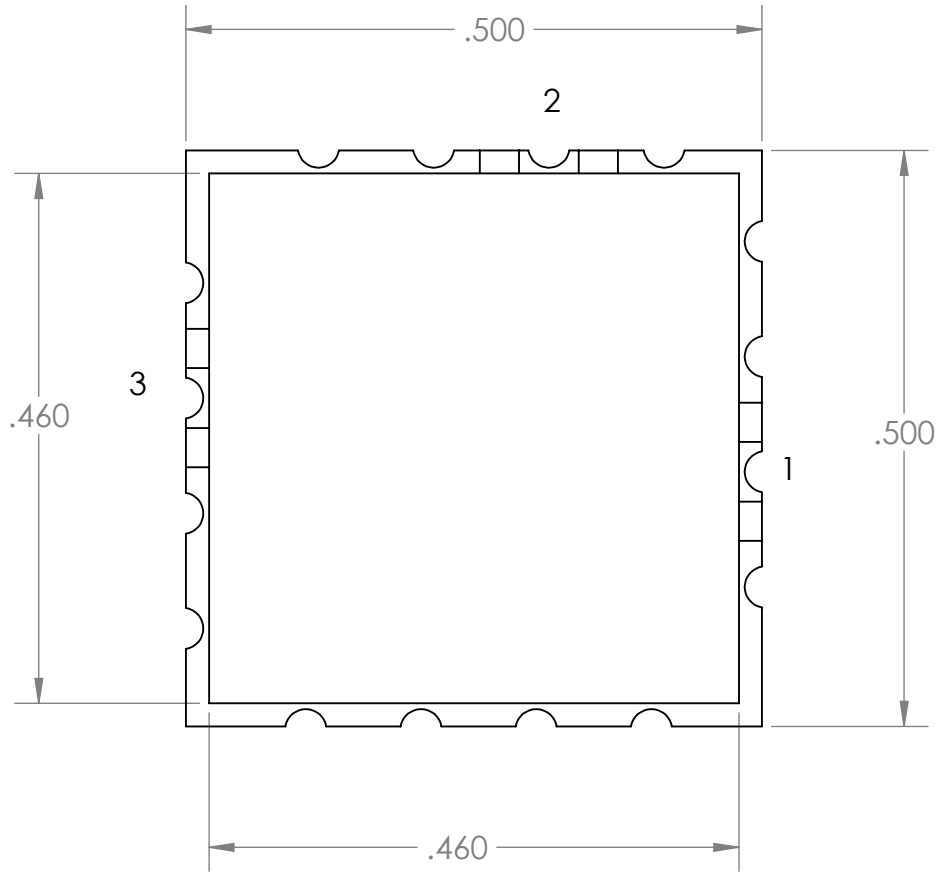
VCO R108109SMUA5CR_156

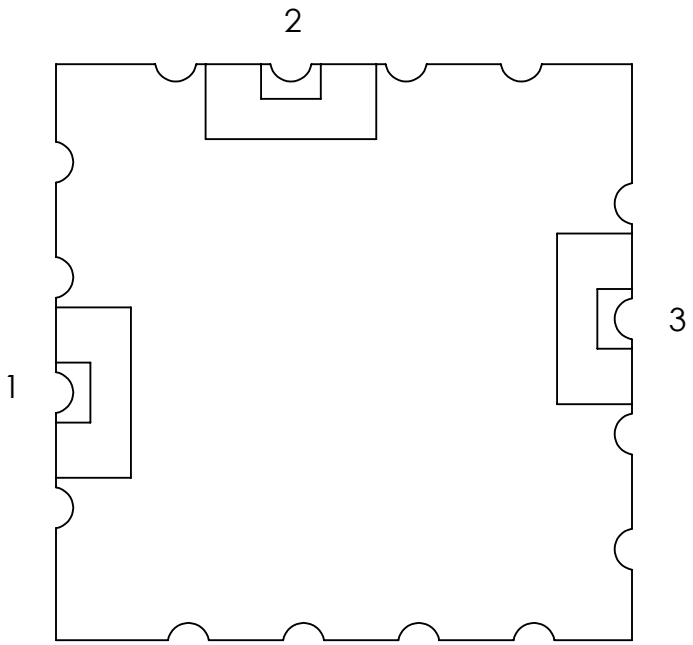
rev_0 initial rev

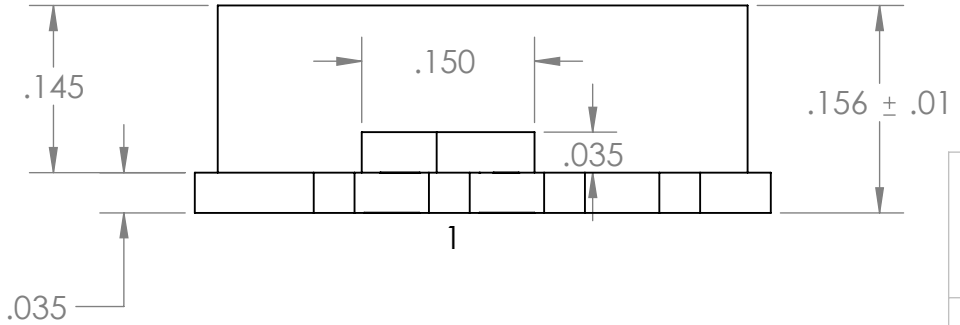
	MIN	TYP	MAX	UNITS	NOTES	Production Test	First Article Test
Frequency Range	1089		1095	MHz	1	..	..
Tuning Voltage	0.7		2.6	V	1,6	..	..
Tuning Voltage Limits	0		3.35	V	1,7	..	..
Modulation Sensitivity	11	15	19	MHz/V	1,6	..	..
Modulation Sensitivity Limits	9		21	MHz/V	1,7	..	..
Operates with Vtune = 0V					1	..	..
Output Power	3	4.5	6	dBm	1,6	..	..
Output Power Limits	1		7	dBm	1,7	..	..
Phase Noise @							
10 KHz Offset		-115	-110	dBc/Hz	1	..	..
200 KHz Offset		-145	-140	dBc/Hz	1	..	..
400 KHz Offset		-151	-146	dBc/Hz	1	..	..
800 KHz Offset		-155	-150	dBc/Hz	1	..	..
3000 KHz Offset		-158	-153	dBc/Hz	3	..	..
>6000 KHz Offset		-160	-155	dBc/Hz	3	..	..
Pushing			0.8	MHz/V	3	..	..
Pulling (12dB RL, any phase)			1	MHz_{p-p}	3	..	..
Modulation Bandwidth	10			MHz	4	..	..
Tuning Port Capacitance			70	pF	2	..	..
2nd Harmonic		-25	-12	dBc	3	..	..
Spurious (non-harmonic)		-40	-15	dBc	3	..	..
Vcc	4.8	5.0	5.2	V	1	..	..
Icc			30	mA	1	..	..
Operating Temperature	-40		+95	C	3	..	..
Package		SMUA_156					
LxW		0.500		inch sq.	5	..	..
Height		0.156		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. Over the 1089~1095 MHz range
7. Outside the specified frequency range







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

APA Wireless TECHNOLOGIES

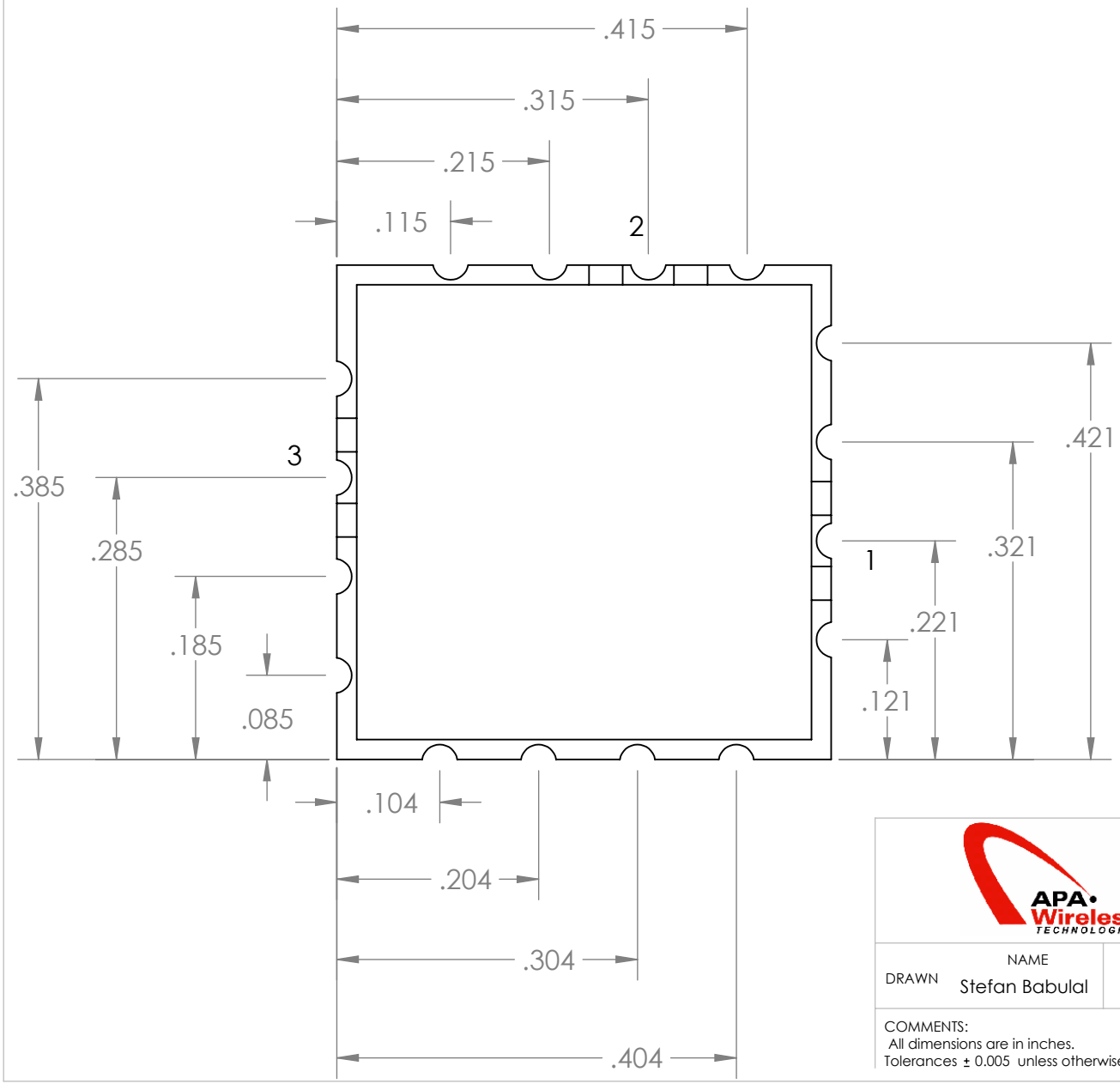
	NAME	DATE
DRAWN	Stefan Babulal	2/17/2017

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

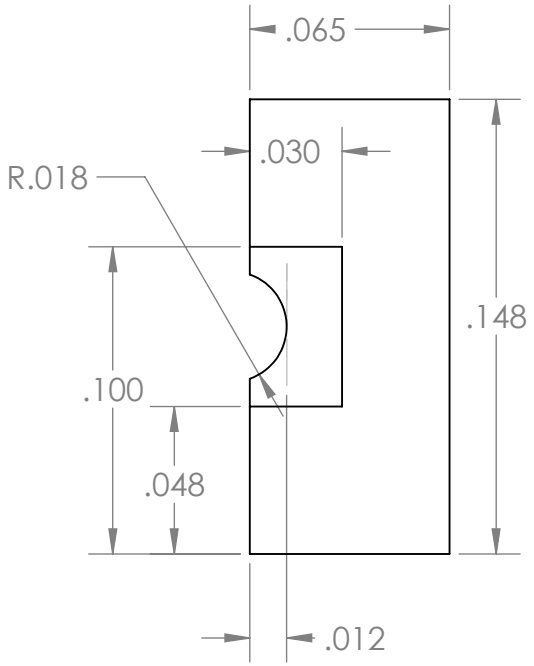
TITLE: SMUA_156

SIZE	DWG. NO.	REV
A	1	

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

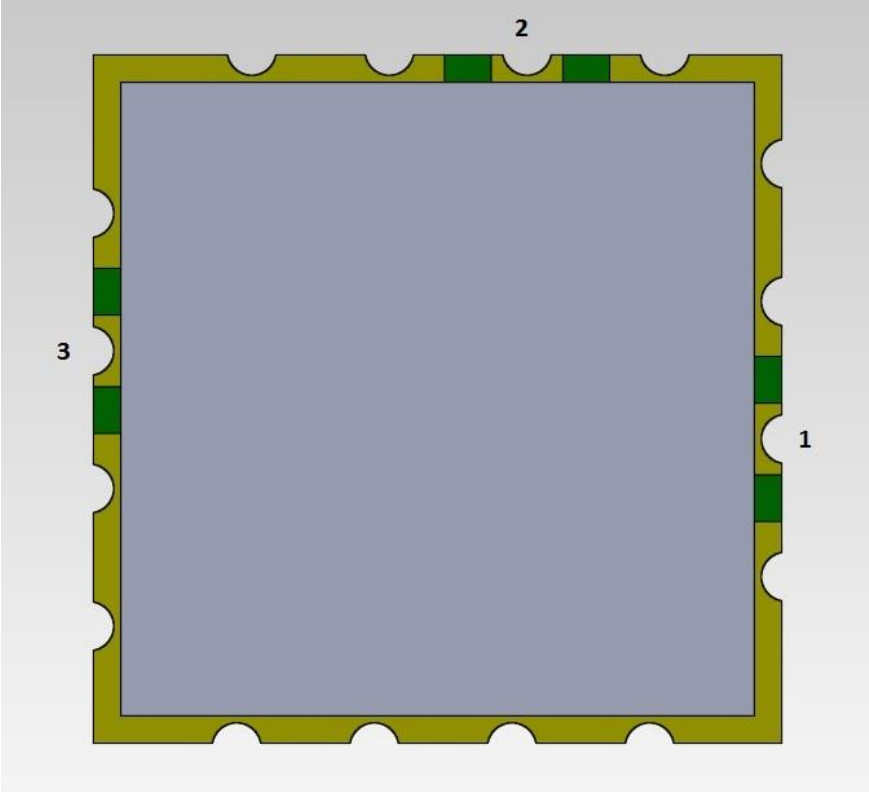


CONTACT DIMENSIONS

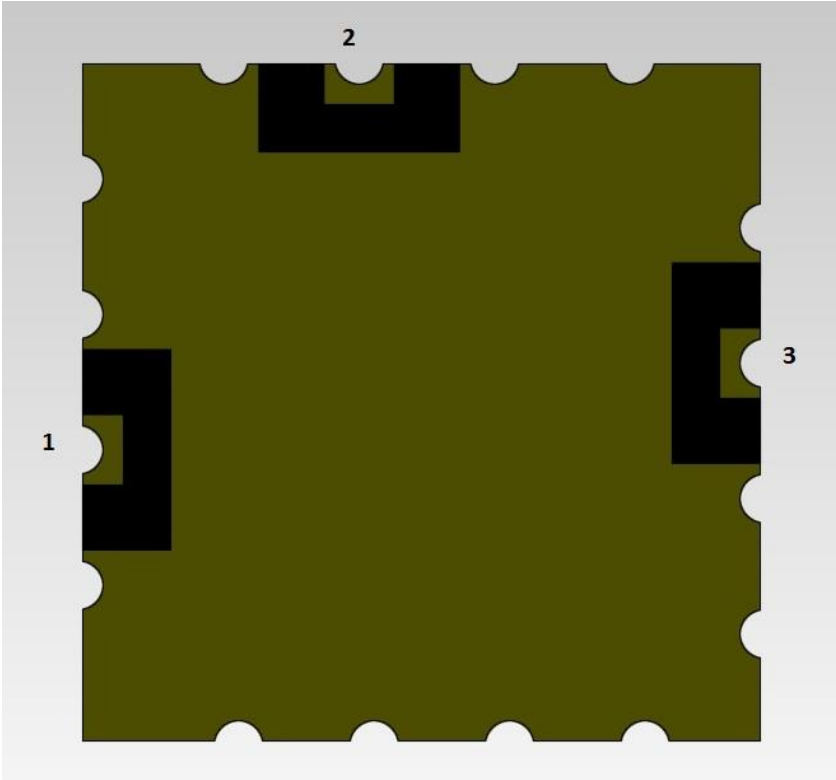


Scale: 16:1

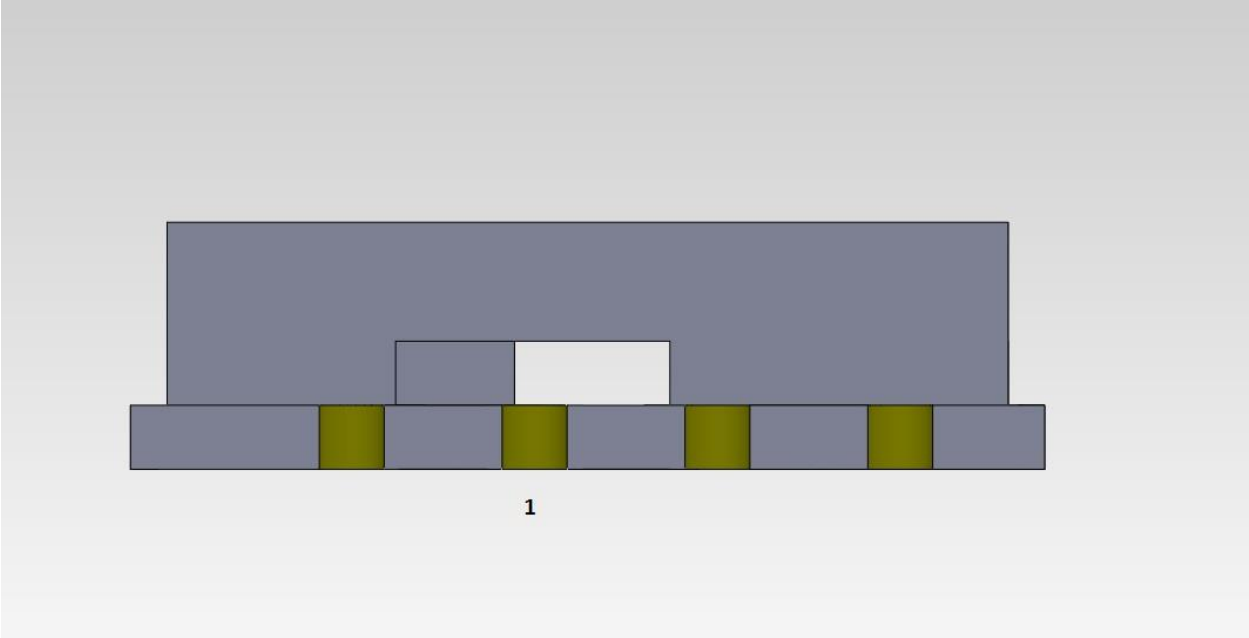
APA Wireless Technologies		TITLE: SMUA_156
DRAWN	NAME: Stefan Babulal	DATE: 2/17/2017
COMMENTS: All dimensions are in inches. Tolerances ± 0.005 unless otherwise noted		
SIZE: A	DWG. NO.: 1	REV
SCALE: 6:1	unit: inch	SHEET 2 OF 2



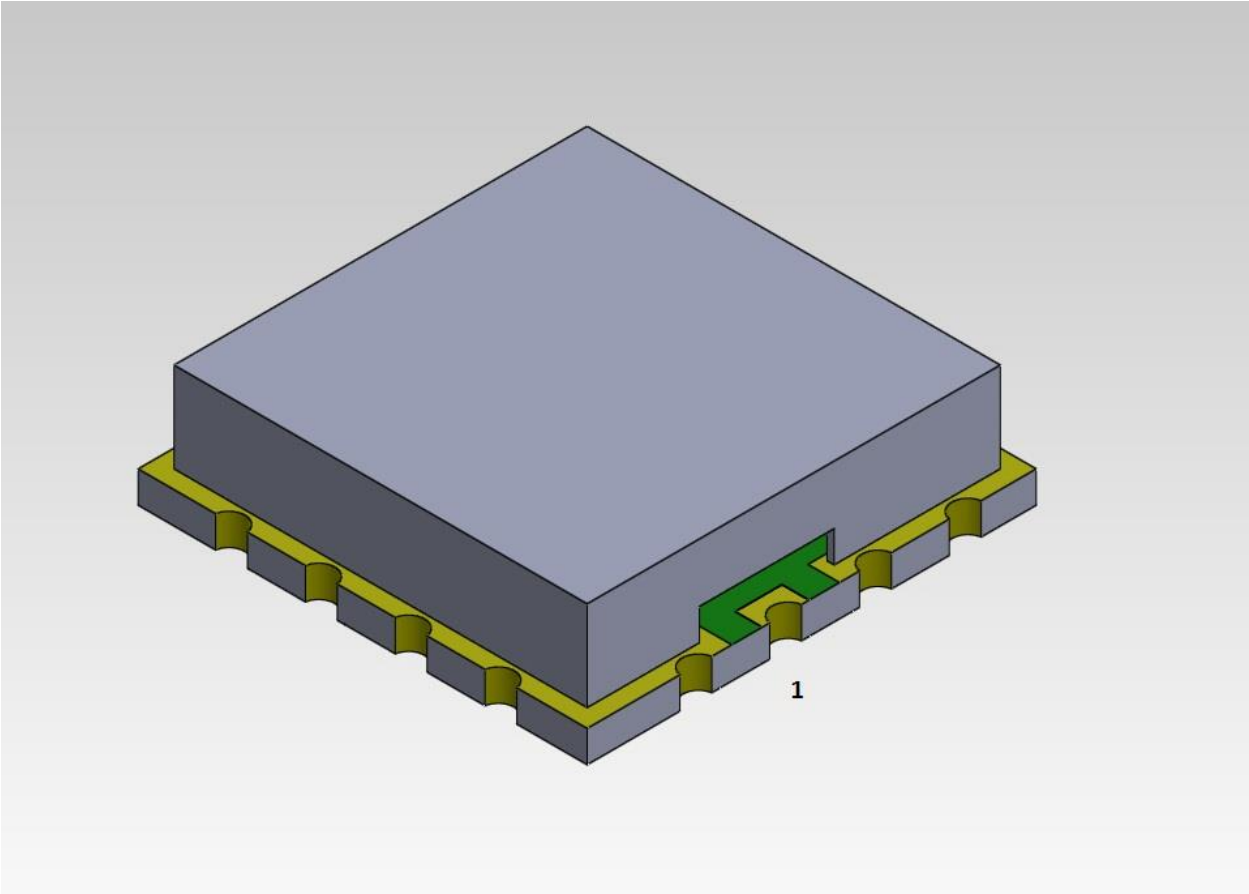
TOP VIEW



BOTTOM VIEW (INVERTED)



SIDE VIEW



ISOMETRIC VIEW