

4

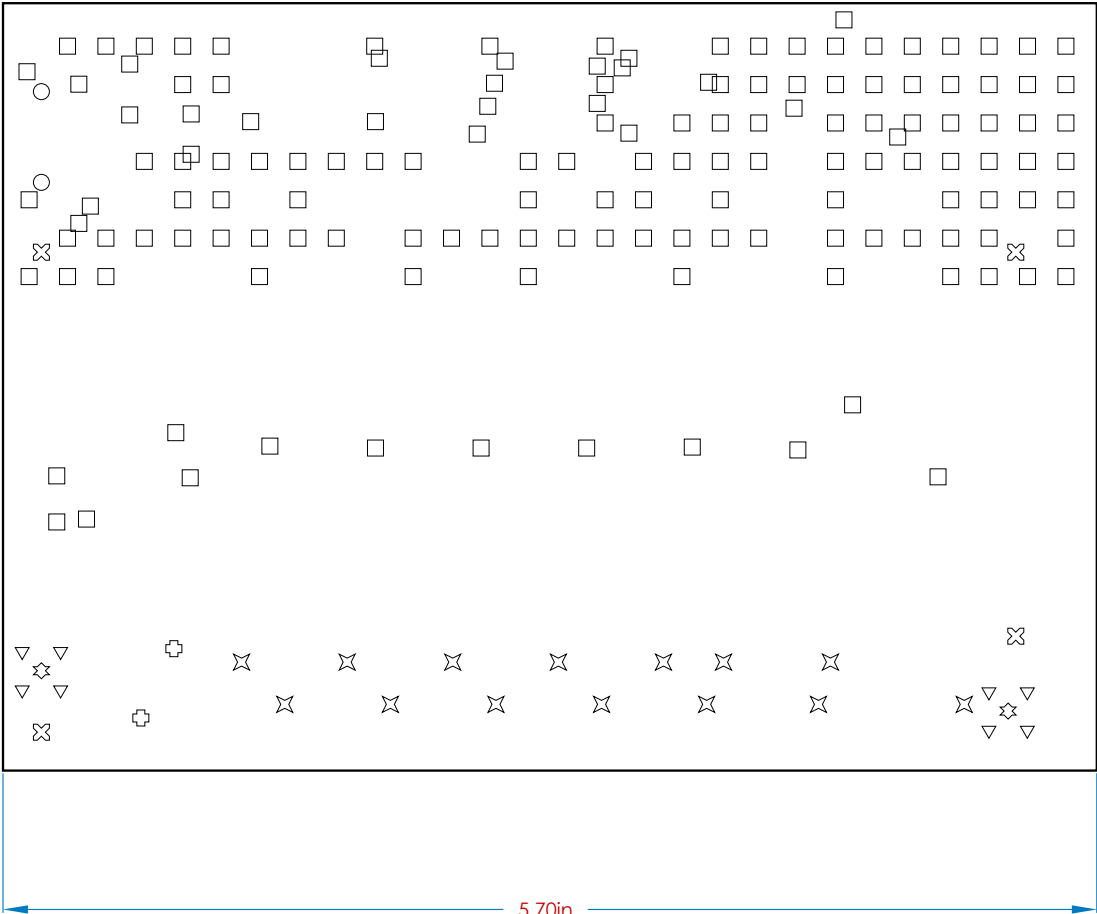
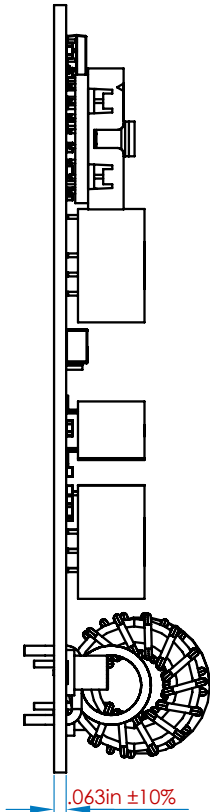
3

2

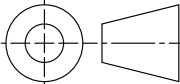
1

TABLE 7.C (N/A IF EMPTY)

| Target Imp | Trace layer | Min Width | Max Width | Gap | Reference layers | Tolerance |
|------------|-------------|-----------|-----------|---------|------------------|-----------|
| 50 | L1-Top | 3.063mm | 3.063mm | | L2-Bottom | 10% |
| 100 | L1-Top | 0.346mm | 0.346mm | 0.127mm | L2-Bottom | 10% |
| 50 | L2-Bottom | 3.063mm | 3.063mm | | L1-Top | 10% |
| 100 | L2-Bottom | 0.346mm | 0.346mm | 0.127mm | L1-Top | 10% |



| Symbol | Count | Hole Size | Plated | Hole Tolerance | Hole Type | Hole Length |
|--------|-----------|-----------|------------|----------------|-----------|-------------|
| □ | 149 | 0.010in | Plated | | Round | |
| ○ | 2 | 0.039in | Non-Plated | | Round | |
| ☆ | 2 | 0.046in | Plated | | Round | |
| ✱ | 14 | 0.050in | Plated | | Round | |
| ▽ | 8 | 0.060in | Plated | | Round | |
| ⊕ | 2 | 0.069in | Plated | | Round | |
| ⊗ | 4 | 0.126in | Plated | | Round | |
| | 181 Total | | | | | |



| SIZE | CAGE CODE | DWG NO | REV |
|------------|-----------|--------------------------|---------------|
| B | 55PX6 | PC-0186 | A |
| SCALE: 1:1 | | Copyright FlexRadio 2023 | SHEET: 2 OF 3 |

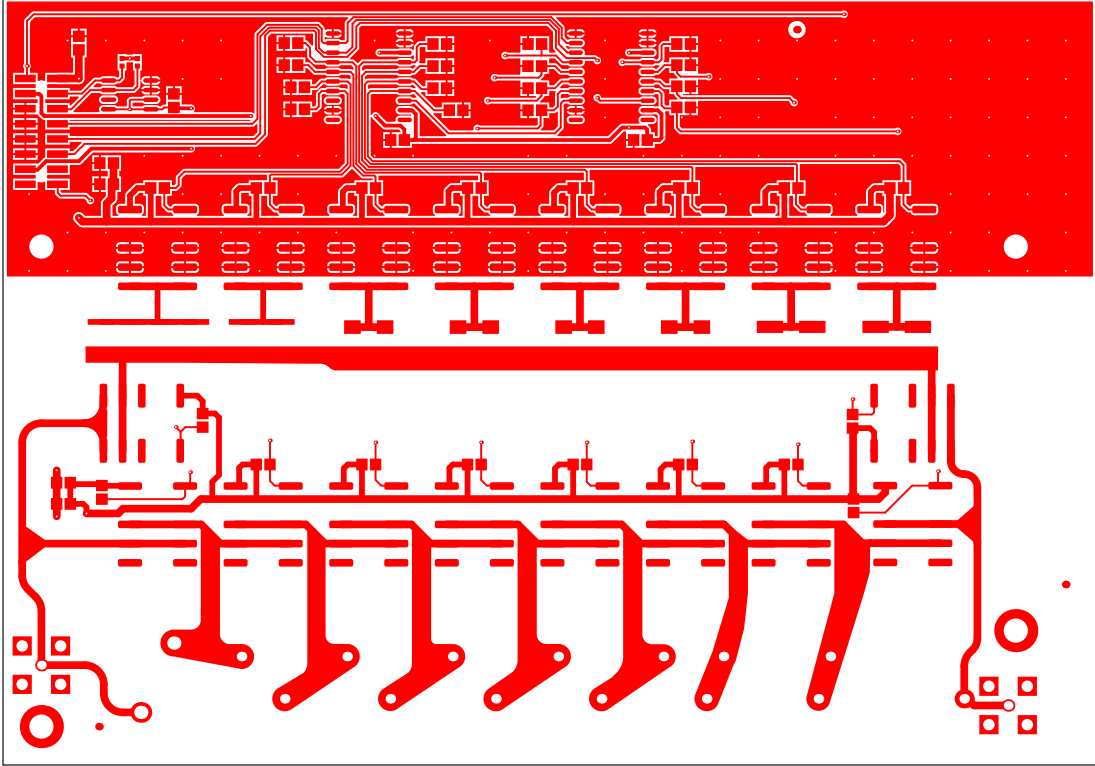
4

3

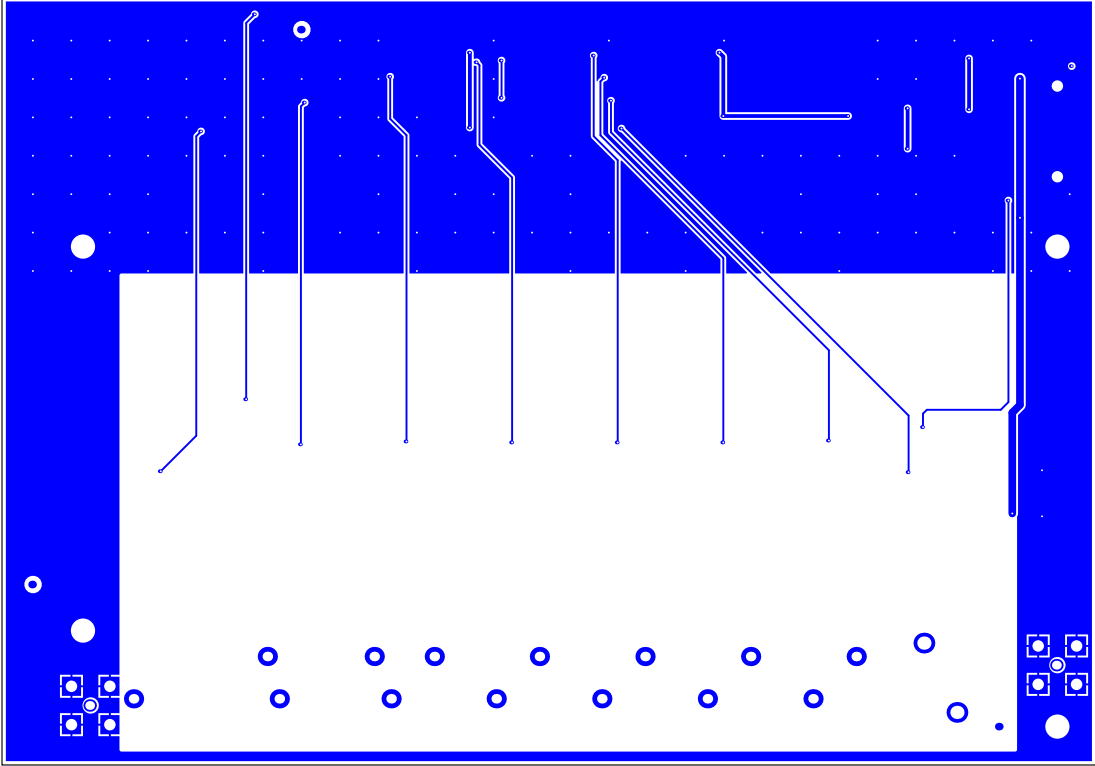
2

1

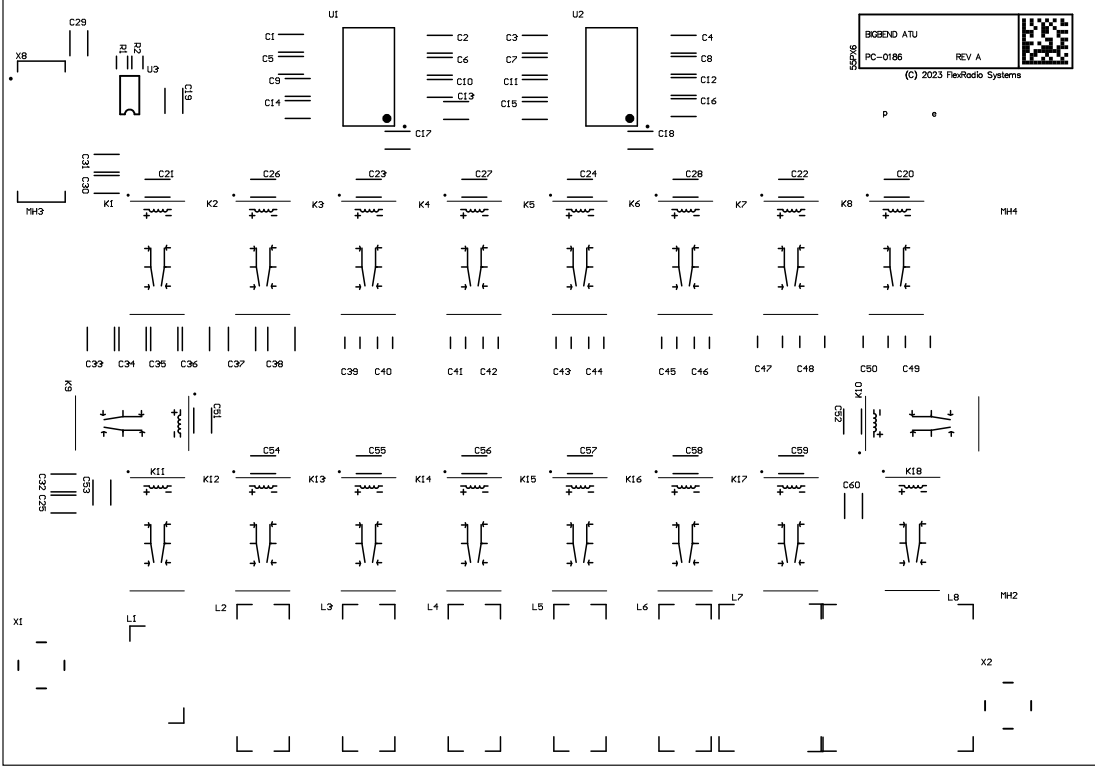
L1-Top (Scale 1:1)



L2-Bottom (Scale 1:1)



Top Overlay (Scale 1:1)

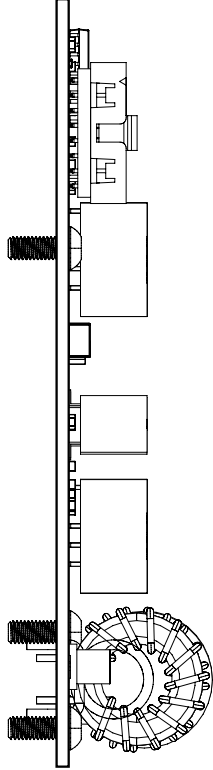


| SIZE | CAGE CODE | DWG NO | REV |
|------------|-----------|--------------------------|---------------|
| B | 55PX6 | PC-0186 | A |
| SCALE: 1:1 | | Copyright FlexRadio 2023 | SHEET: 3 OF 3 |

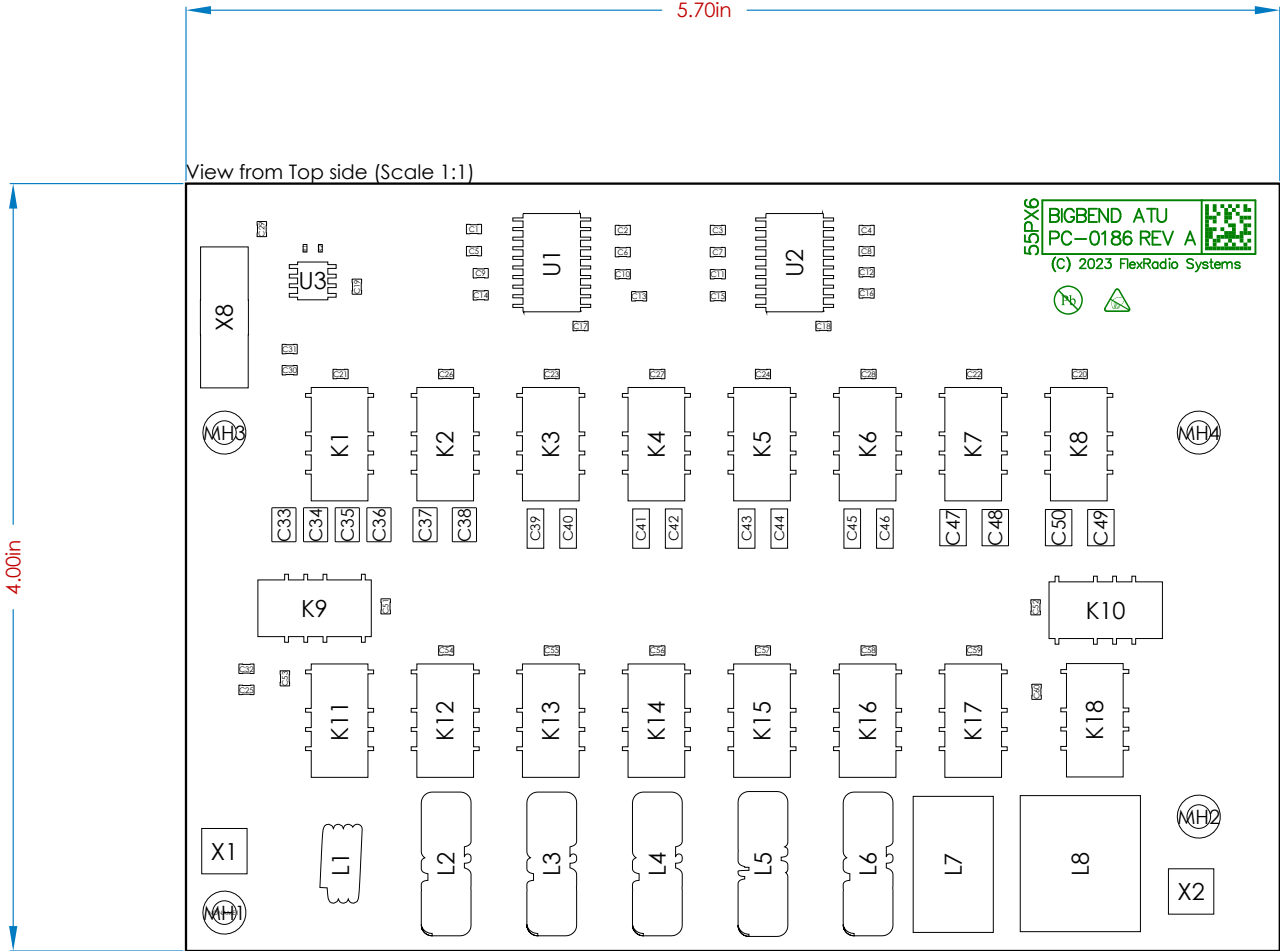
NOTES:
1. STANDARDS:
A. WORKMANSHIP PERFORMED IAW IPC-A-610 AND J-STD-001. IN THE EVENT OF A CONFLICT, J-STD-001 SHALL TAKE PRECEDENCE.
B. COMPONENT MOUNTING PER IPC-CM-770.
C. ALL SPECIFICATIONS TO BE TO THE LATEST STANDARDS.
D. INTERPRET ALL IPC SPECIFICATIONS AS CLASS ☒ 2 ☐ 3 ☐ 3A
2. MATERIALS TO BE ☒ RoHS ☐ non-RoHS COMPLIANT.
3. OTHER THAN SPECIFICALLY NOTED, CHARACTERS ARE REFERENCE AND NOT TO BE MARKED.
4. LEAD PROTRUSION TO BE DISCERNIBLE TO .060 MAX ABOVE THE PLATED SURFACE OF THE BOARD.
5. PARTS MAY BE DAMAGED BY DISCHARGE OF STATIC ELECTRICITY. HANDLE IAW ANSI ESD 20.20.
6. TABS FROM DE-PANELING SHALL BE .015 MAX BEYOND THE BOARD OUTLINE AND .015 MAX BELOW FLUSH TO THE BOARD OUTLINE.
7. ☒ NO CONFORMAL COAT
☐ ALL TESTPOINTS ARE TO BE FREE OF CONFORMAL COATING.

| REVISION HISTORY | | | |
|------------------|-----------------|-------|----------|
| REV | DESCRIPTION | DATE | APPROVED |
| -- | INITIAL RELEASE | 2023- | X |
| | | | |

View from Left side (Scale 1:1)



View from Top side (Scale 1:1)



SEE SEPARATE PARTS LIST ALL SHEETS SAME REVISION

PROPRIETARY AND CONFIDENTIAL


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UOS DIM ARE INCH AND APPLY BEFORE FINISH
ANGLE ± .3° 2PL ± .01 3PL ± .003
INTERPRET DIM AND TOL PER ASME Y14.5

ASSOCIATED DOCS: SCH: SC-0186
BOM: BOM- FAB: PC-0186

APPROVALS

| | |
|----------|------------|
| ENG: DGF | 2023-03-28 |
| DSN: DGF | 2023-03-28 |
| CHK: X | 2023- |



4616 W HOWARD LANE
SUITE 8-860
AUSTIN, TX 78728

TITLE

BIGBEND ATU

| | | | |
|----------|--------------|-----------|----------|
| SIZE | CAGE CODE | DWG NO | REV |
| B | 55PX6 | B- | A |

SCALE: 1:1 **Copyright FlexRadio 2023** SHEET: 1 OF 2

BILL OF MATERIALS: BOM- (SEE SEPARATE PAGE)

Bill Of Materials

| Line # | Designator | Name | Quantity |
|--------|---|--|----------|
| 1 | C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60 | C0805C103J5RAC7210 | 42 |
| 2 | C33, C34, C35, C36, C37, C38 | C4532C0G3F331K250KA | 6 |
| 3 | C39, C40 | C1808C161JZGACTU | 2 |
| 4 | C41, C42 | C4520C0G3F820K200KA | 2 |
| 5 | C43, C44 | GRM42A5C3F390JW01L | 2 |
| 6 | C45 | C4520C0G3F220K | 1 |
| 7 | C46 | C4520C0G3F180K | 1 |
| 8 | C47, C48, C49, C50 | C1812C100JHGACTU | 4 |
| 9 | K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11, K12, K13, K14, K15, K16, K17, K18 | EE2-12NUX-L | 18 |
| 10 | L1 | 50nH air inductor 3T #20 6.35mm ID | 1 |
| 11 | L2 | 0.11uH TH Toroid | 1 |
| 12 | L3 | 0.22uH TH Toroid | 1 |
| 13 | L4 | 0.48uH TH Toroid | 1 |
| 14 | L5 | Inductor, Toroid, 1.0uH, 17T, FRCW 20 AWG, 290 deg, T68-10 | 1 |
| 15 | L6 | 2.0uH TH Toroid | 1 |
| 16 | L7 | 4.1uH TH Toroid | 1 |
| 17 | L8 | 8.2uH TH Toroid | 1 |
| 18 | R1, R2 | MCR01MZPF1002 | 2 |
| 19 | U1, U2 | TPIC6B595DWG4 | 2 |
| 20 | U3 | M24C64-WMN6P | 1 |
| 21 | X1, X2 | 73366-0061 | 2 |
| 22 | X8 | 87832-1622 | 1 |