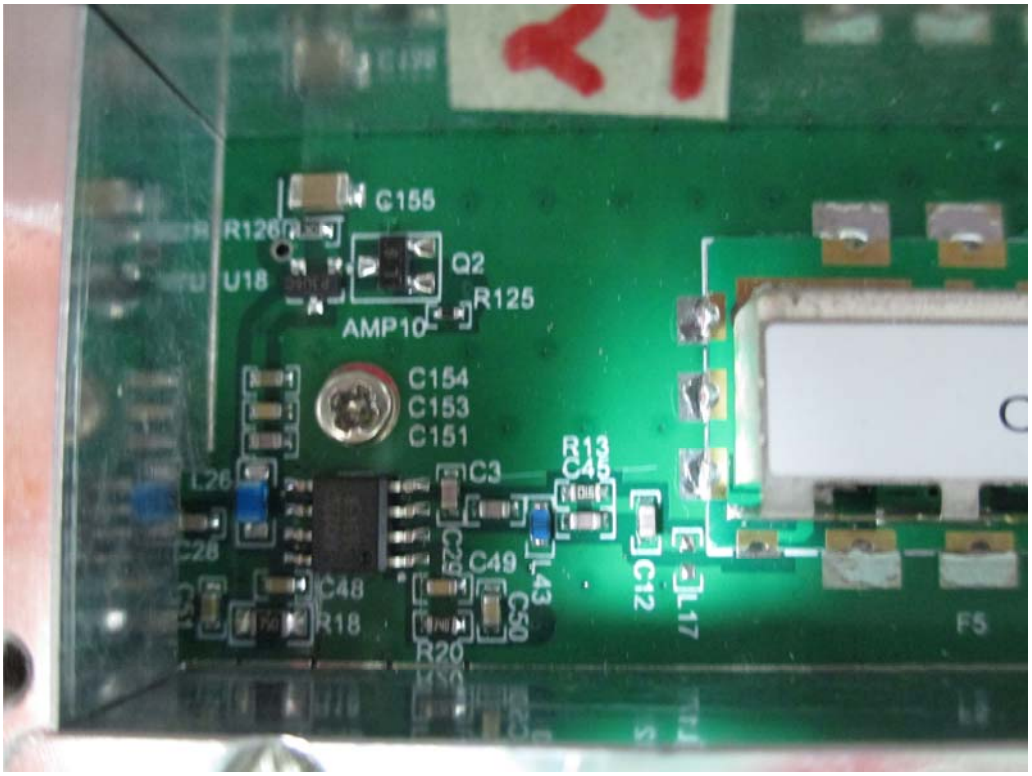
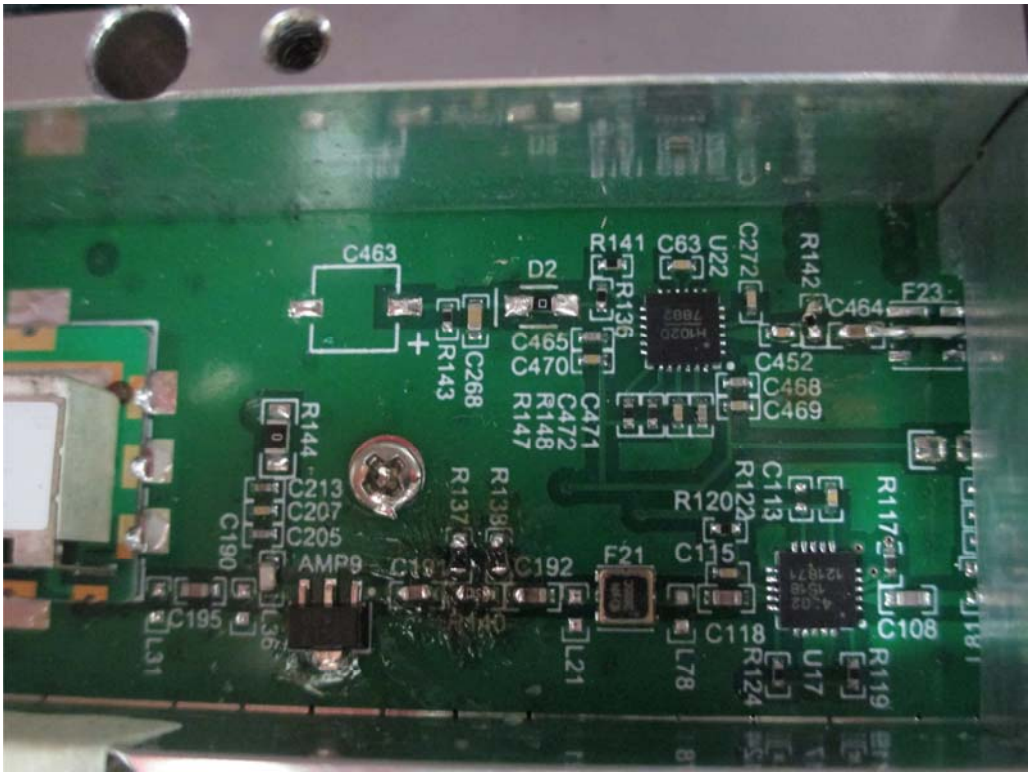
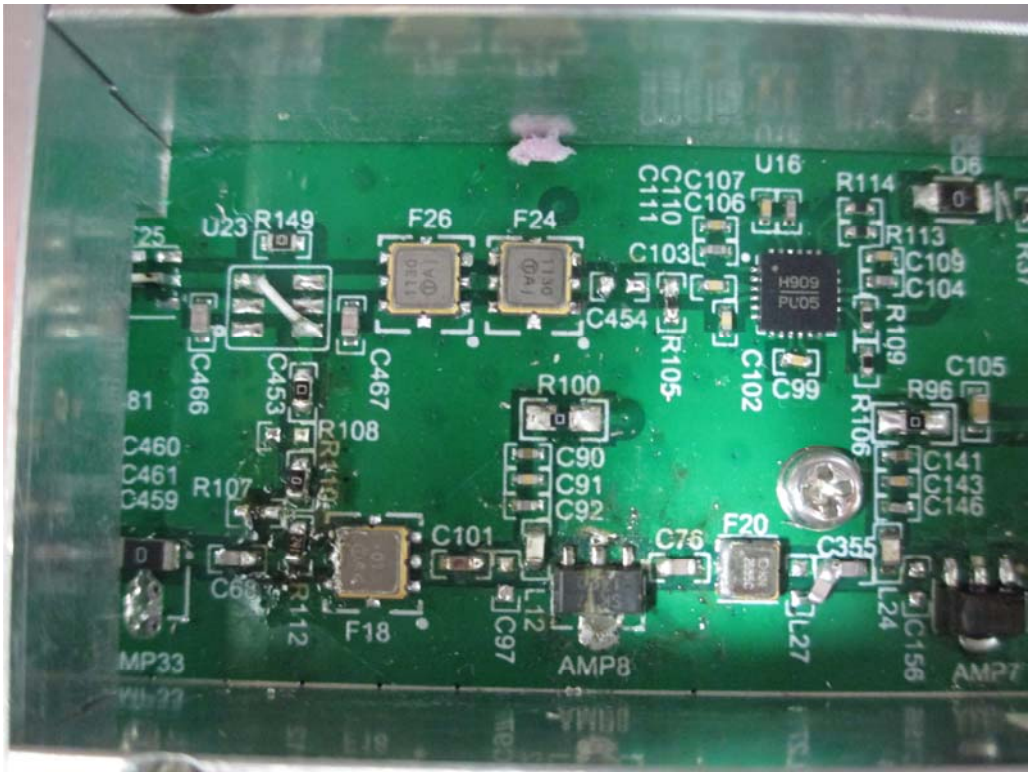
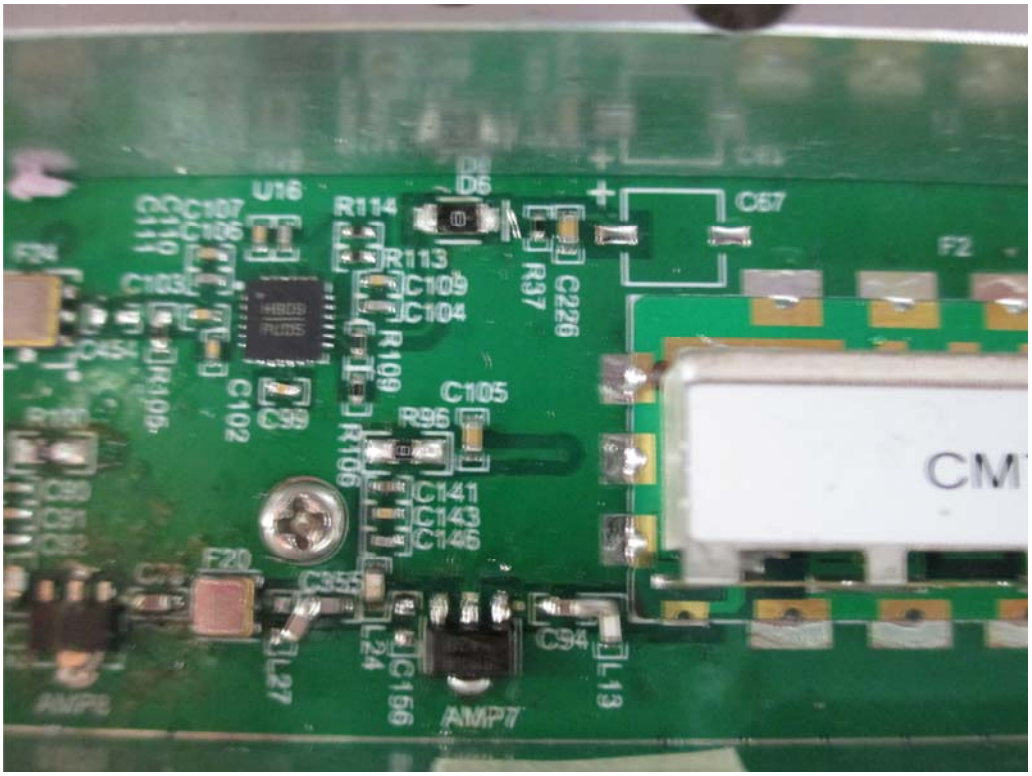

C155
R126
U18
Q2
R125
AMP10
C154
C153
C151
L26
C3
R13
C45
C28
C48
R18
C28
C49
L43
C50
R20
C12
L17
F5

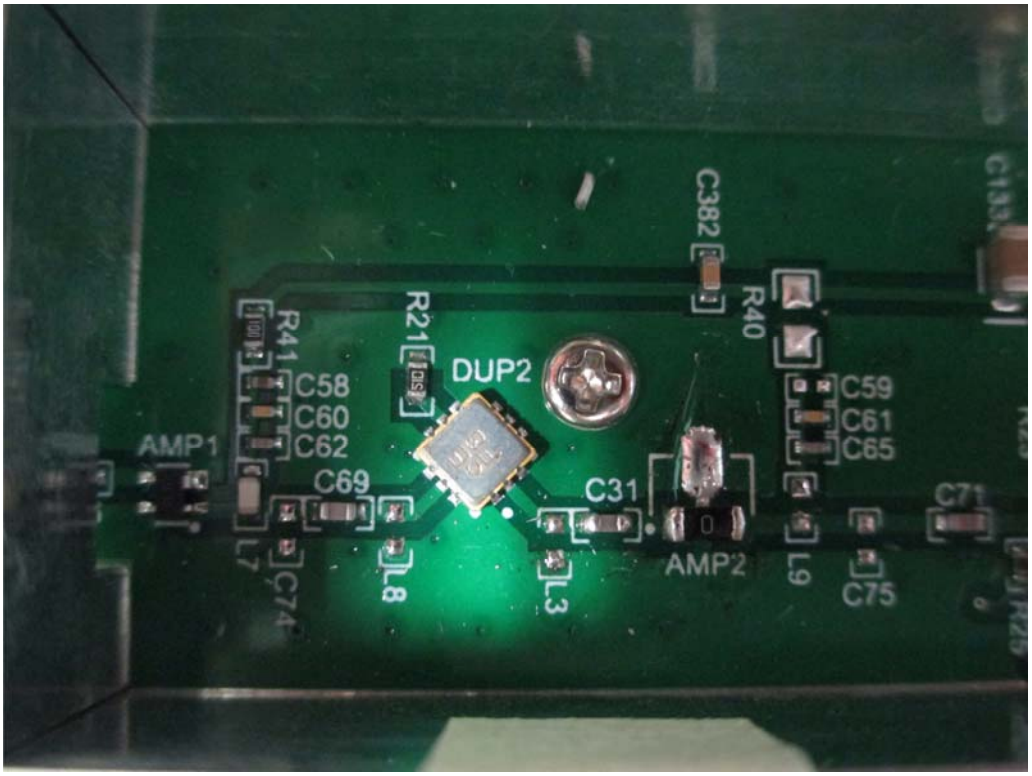
151114
CM742
F5
C195
L31

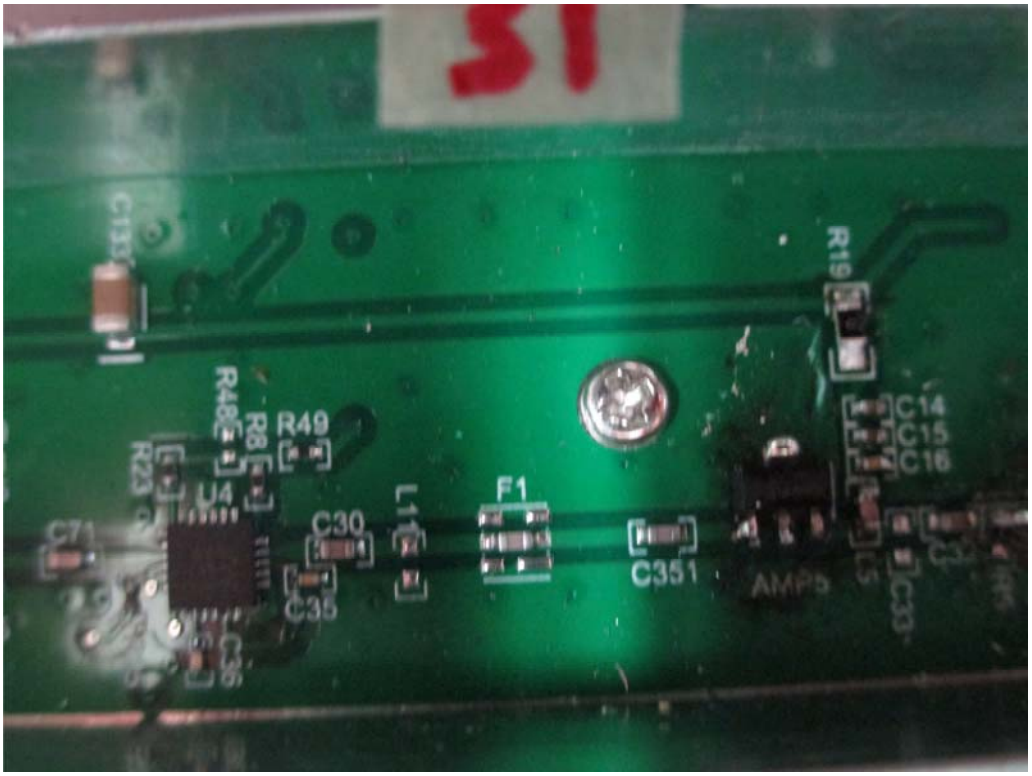

C463
D2
R141
C63
U22
C272
R142
F23
C464
R136
C465
C470
C268
R143
C452
C468
C469
C471
C472
R148
R147
R144
C213
C207
C205
C190
AMP9
R137
R138
C192
F21
R120
R122
C115
C113
R117
C108
C118
R124
U17
R119
C195
L31
L36
L21
L78

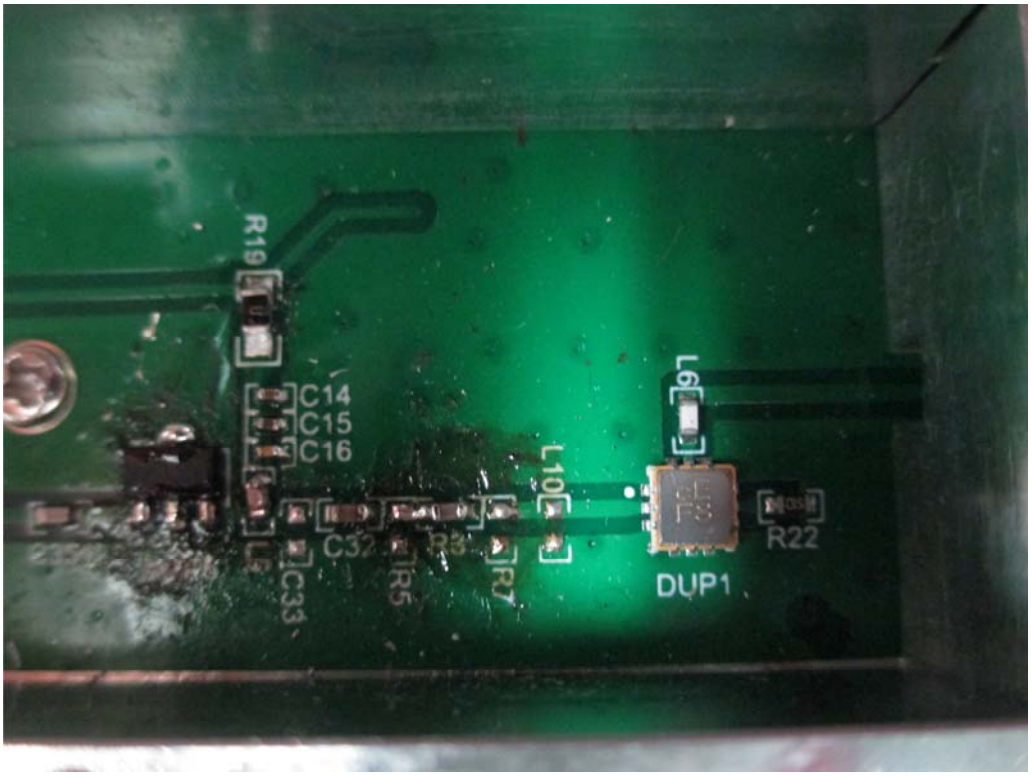

U23
R149
F26
F24
C107
C106
C110
C111
U16
R114
D6
R113
C109
C104
C103
C454
R105
C102
C99
R109
R106
C105
R96
C466
C453
C467
R100
C460
C461
C459
R108
R107
C90
C91
C92
C141
C143
C146
C101
C76
F20
C355
C68
R112
F18
C97
L12
AMP8
L27
L24
C156
AMP7
MP33

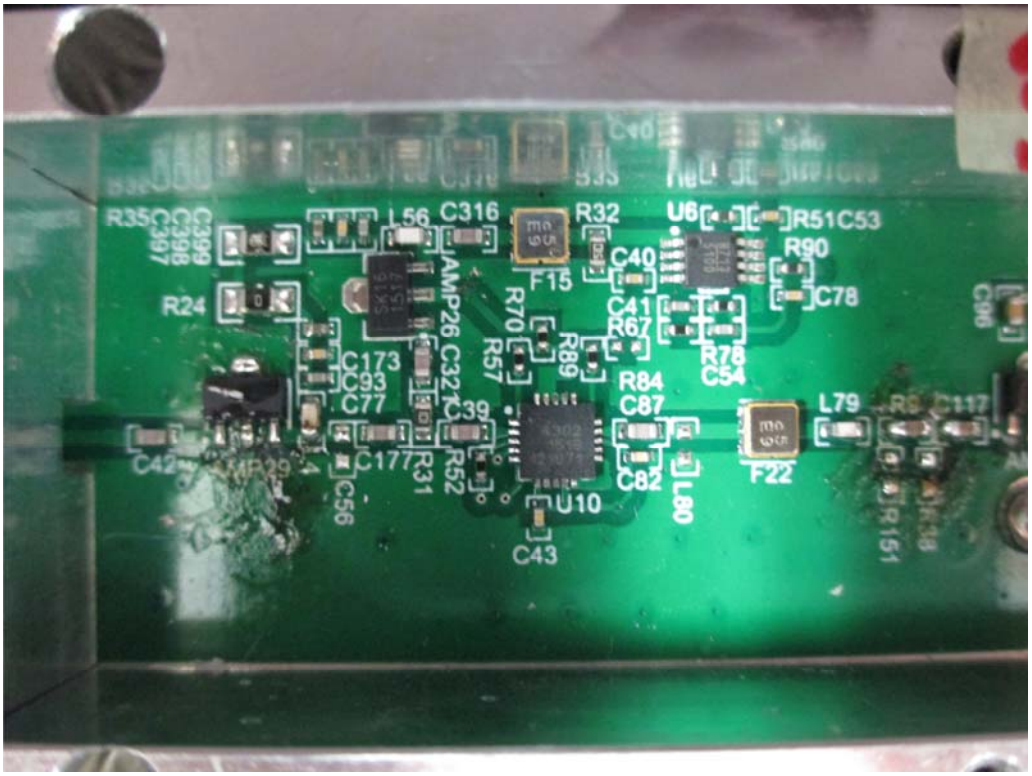

U16
D5
R114
C107
C106
C119
C103
R113
C109
C104
R109
R37
C226
C57
F2
F24
C45
R105
C102
C38
R106
C105
R95
C143
C146
C145
C35
F20
C34
L24
L27
C156
AMP7
L13
AMP8

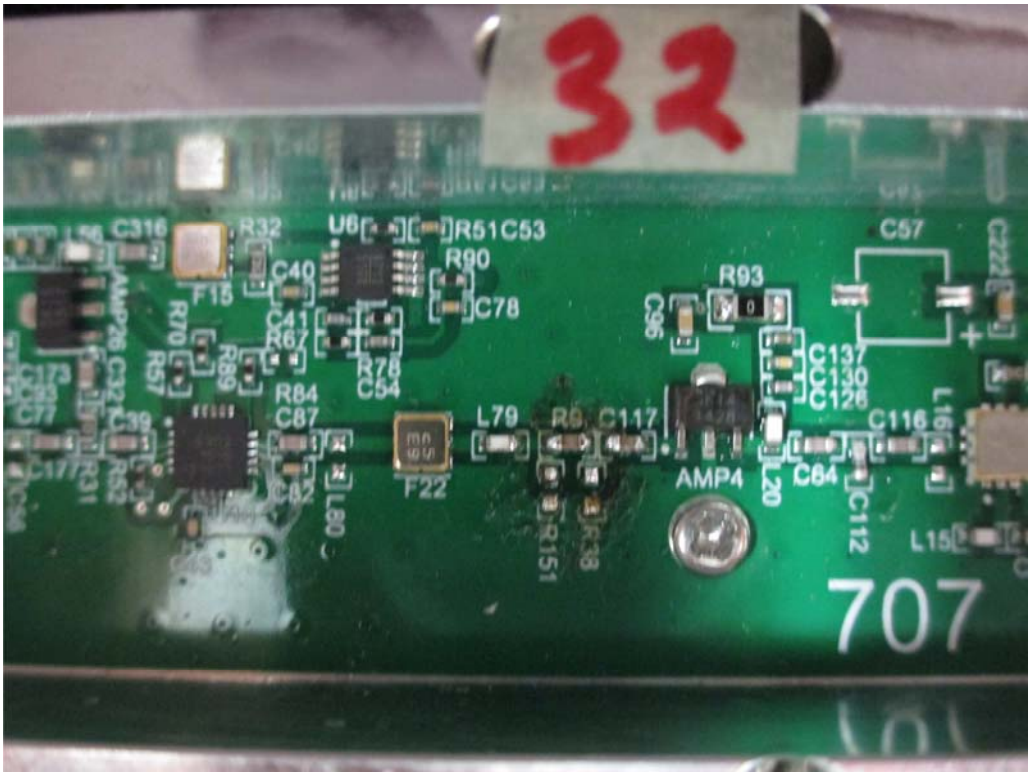
30
742
F2
151114
1742
R103
C98
C400
R95
R104
C100
R102
C140
C142
C144
C152
C149
L14
R99
U15
C150
R101
L23
AMP6
C147

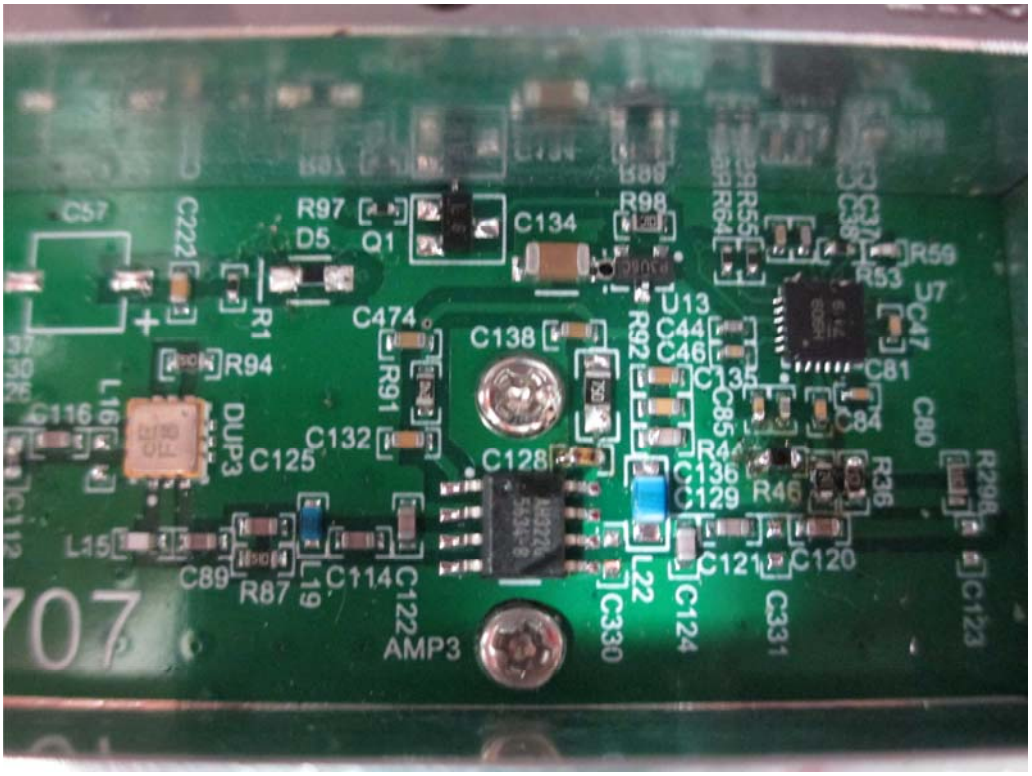

C382
R40
R21
R41
DUP2
C58
C60
C62
C59
C61
C65
AMP1
C69
C31
C71
L7
C74
L8
L3
AMP2
L9
C75

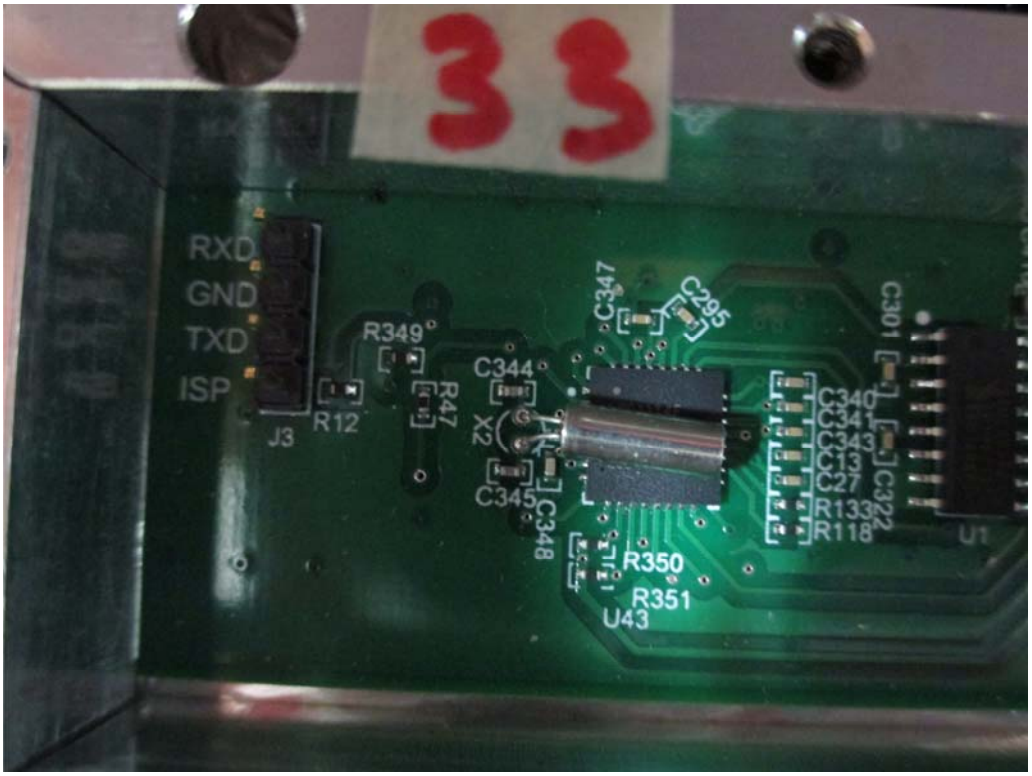

R19
R48
R8
R49
C14
C15
C16
R23
U4
F1
C71
C30
L1
C351
C35
AMP5
C33

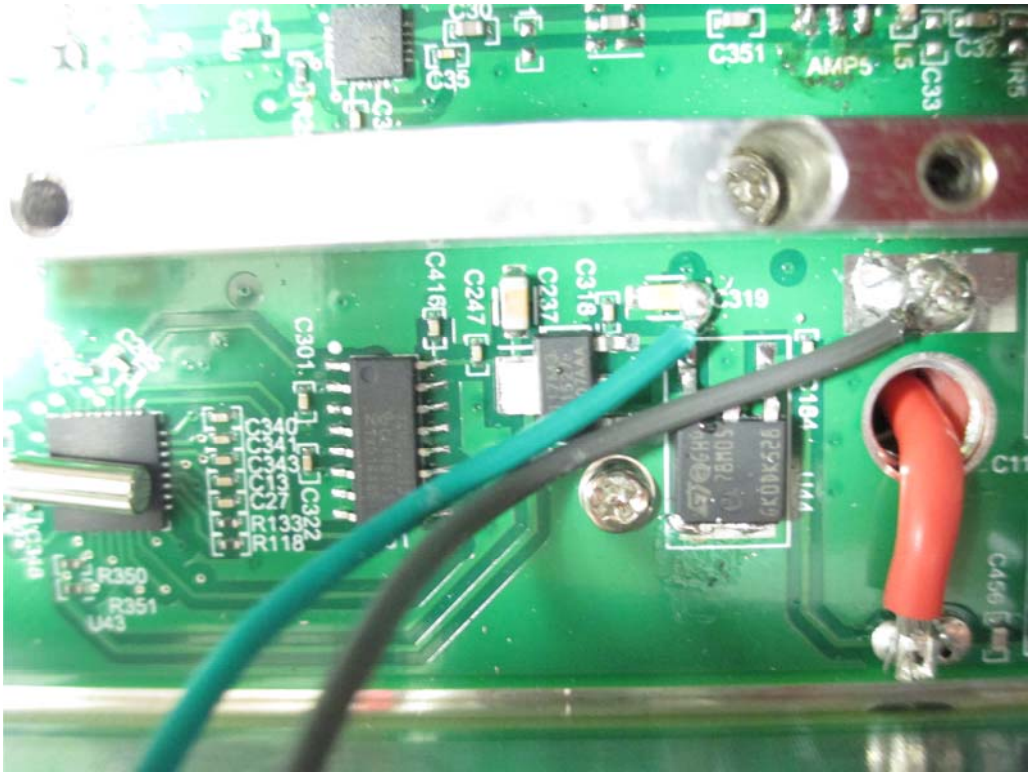

R19
C14
C15
C16
L10
L6
C32
R3
R5
R7
C33
DUP1
R22

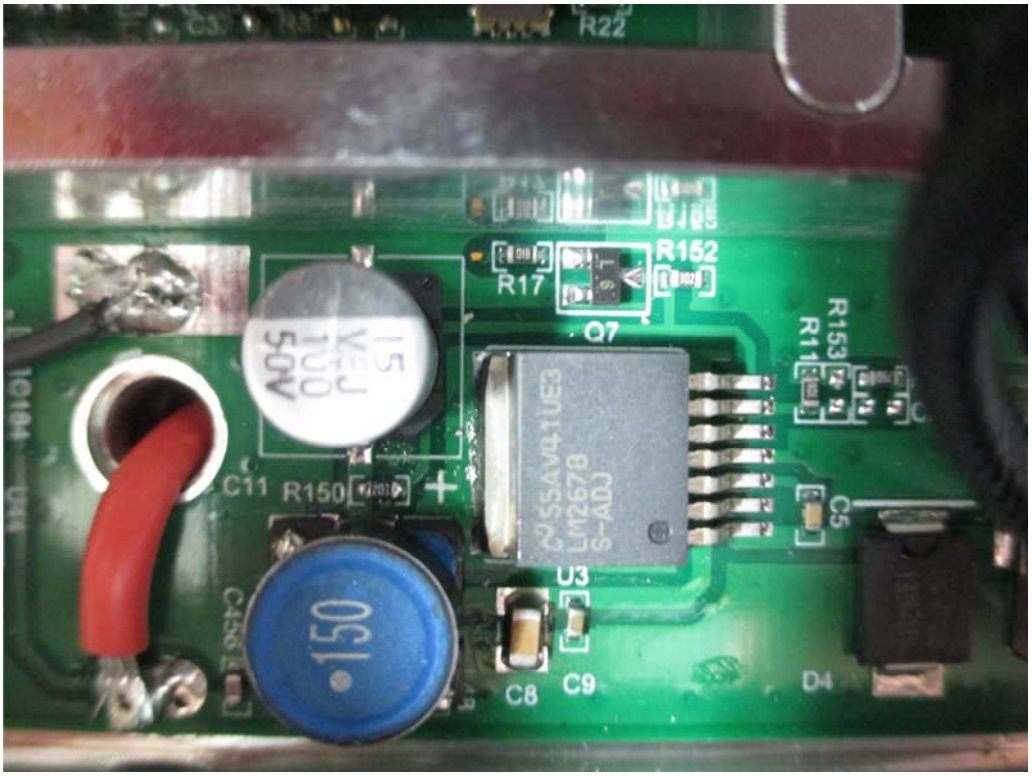

R35
C396
C397
C398
L56
C316
R32
U6
R51
C53
R90
C78
F15
C40
C41
R67
R24
R70
R57
R89
R75
C54
C173
C93
C77
AMP26
C321
C39
R84
C87
L79
C117
C42
AMP29
C177
R31
R52
C82
L80
F22
C56
U10
C43
R151

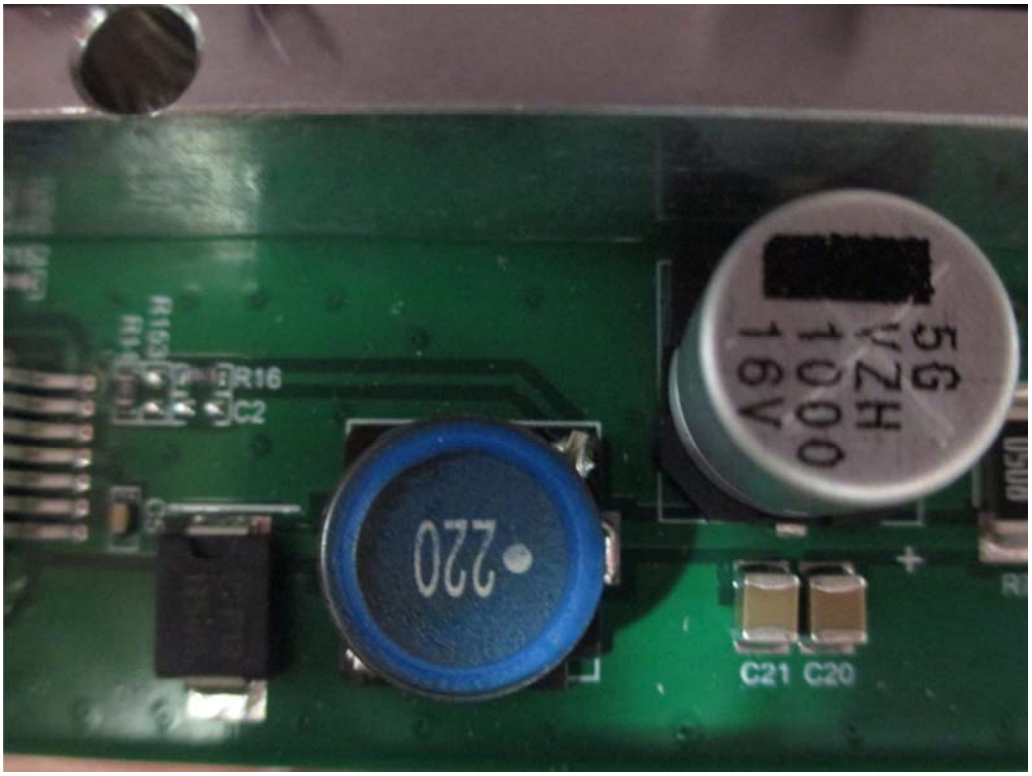

32
C316
R32
U6
R51C53
R90
C78
C40
F15
C41
R67
R70
R57
R89
R78
C54
R84
C87
C77
C39
R31
R52
C82
L80
F22
L79
R9
C117
R151
R38
AMP4
L20
C84
C112
C116
L16
L15
C96
R93
C57
C222
C137
C130
C126
707

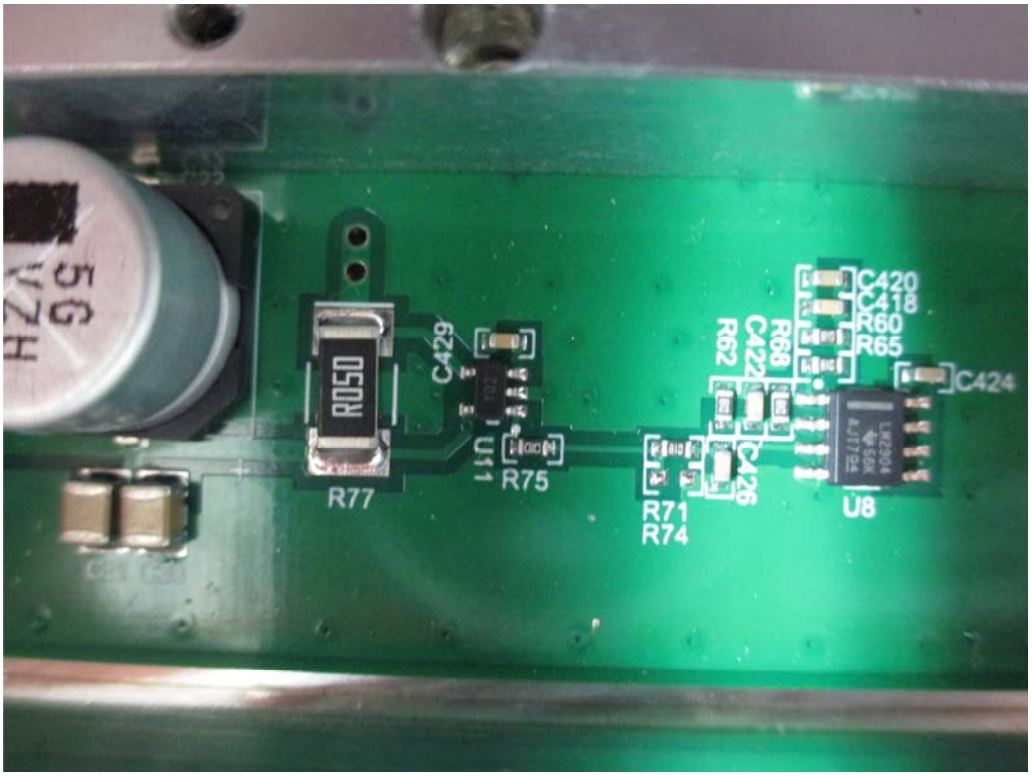

C57
C222
R97
D5
Q1
C134
R98
R64
R55
R59
R53
U7
C47
C81
C80
R1
C474
C138
R94
R91
R92
D13
C44
C46
C135
C85
C84
C116
L16
DUP3
C132
C125
C128
R4
C136
C129
R46
R36
R298
L15
C89
R87
L19
C114
C122
AMP3
L22
C330
C124
C121
C120
C331
C123
707


33
RXD
GND
TXD
ISP
J3
R12
R349
R47
C344
X2
C345
C348
C347
C295
R350
R351
U43
C301
C340
C341
C343
C13
C27
R133
R118
C322
U1

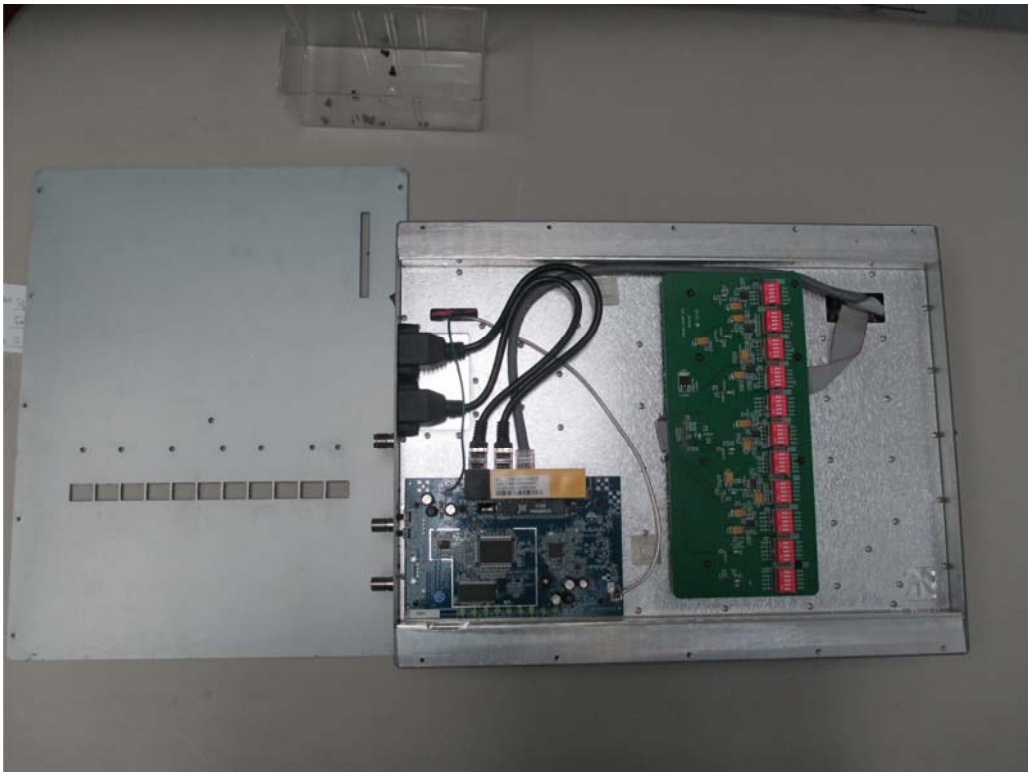

C351
AMP5
C33
C416
C247
C237
C318
C319
C301
C340
C341
C343
C27
C322
R133
R118
R350
R351
U43
C456

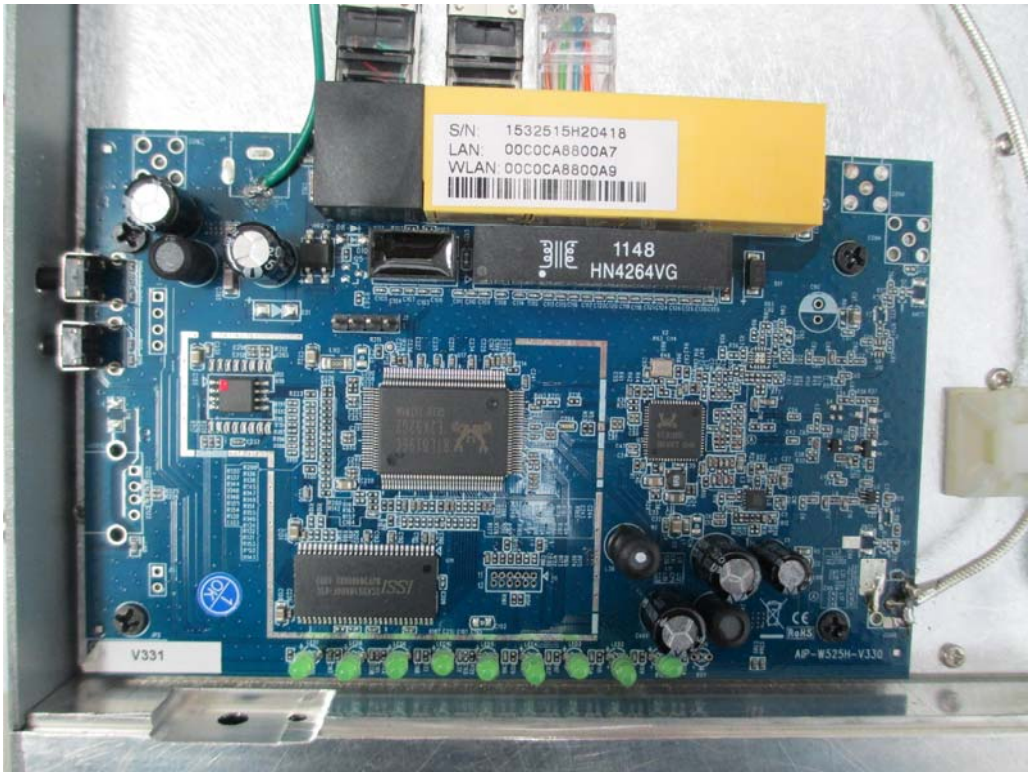

R22
R152
R17
Q7
R153
R11
C11
R150
C5
U3
C8
C9
D4

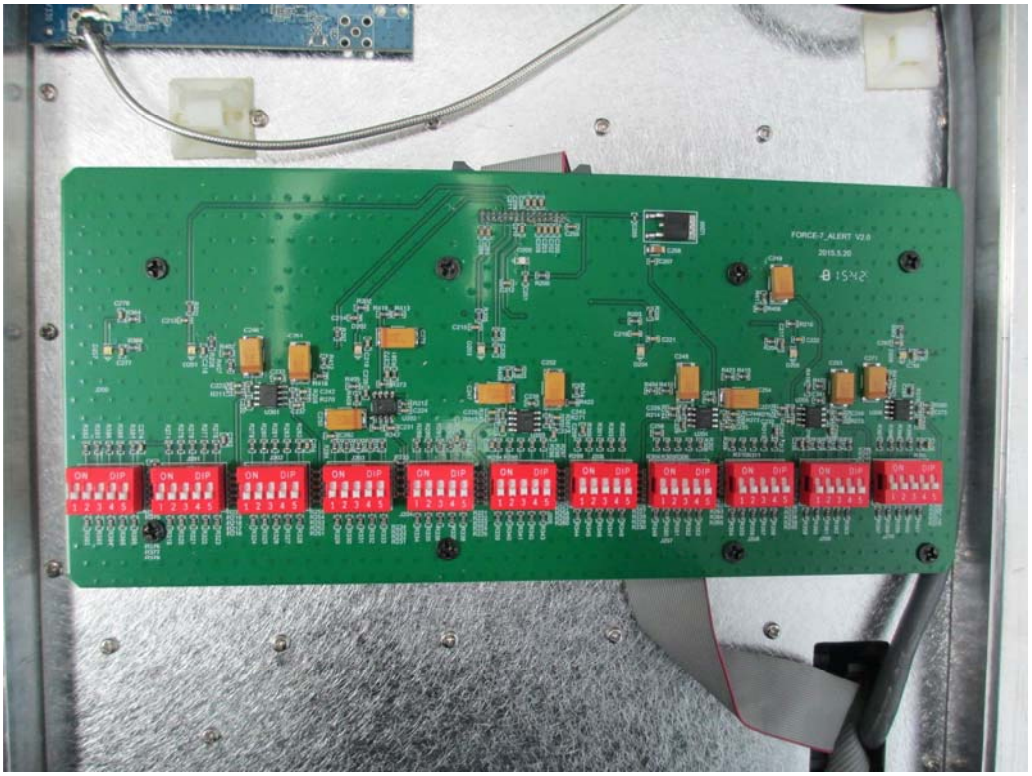

R16
C2
C21
C20

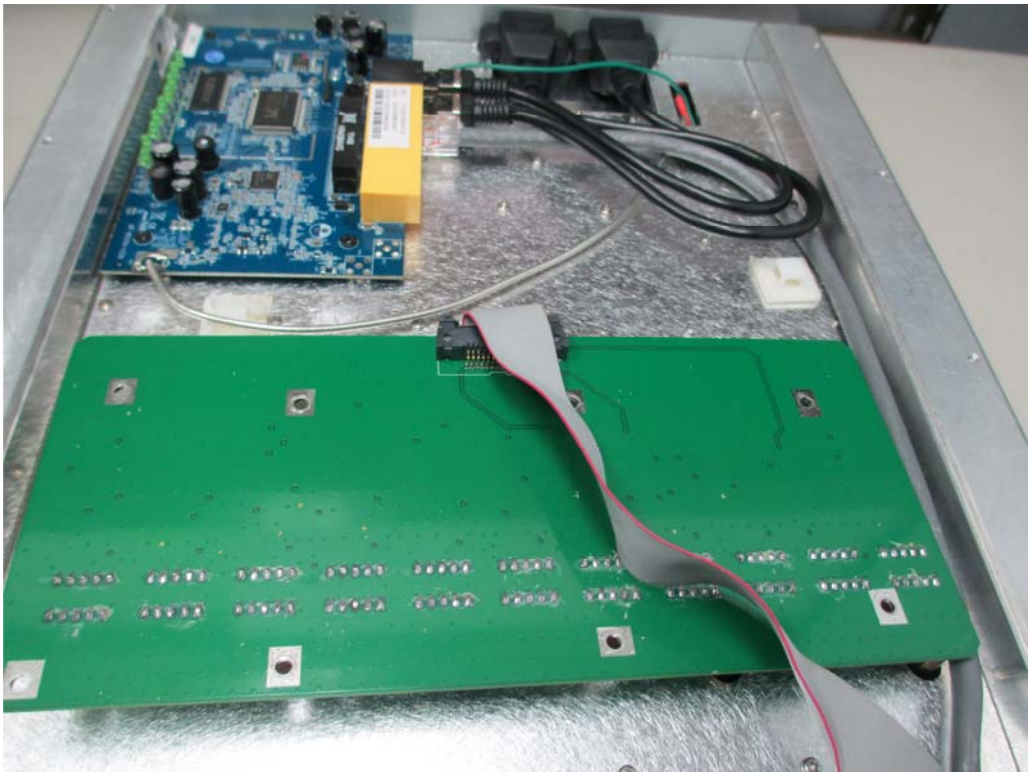

R050
C429
U11
R75
R77
C420
C418
R60
R65
R68
C422
R62
C424
C426
R71
R74
U8

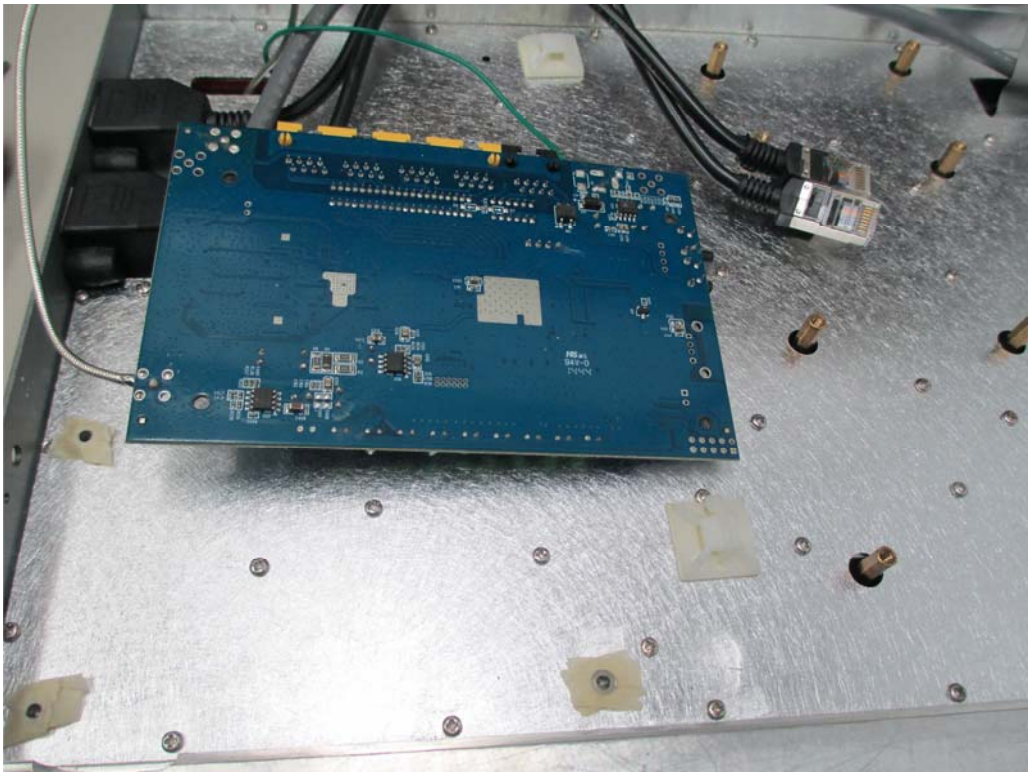
SureCall
Force-7
POWER
HDTV
LTE-A
LTE-V
CELLULAR
PCS
AWS
Wi-Fi

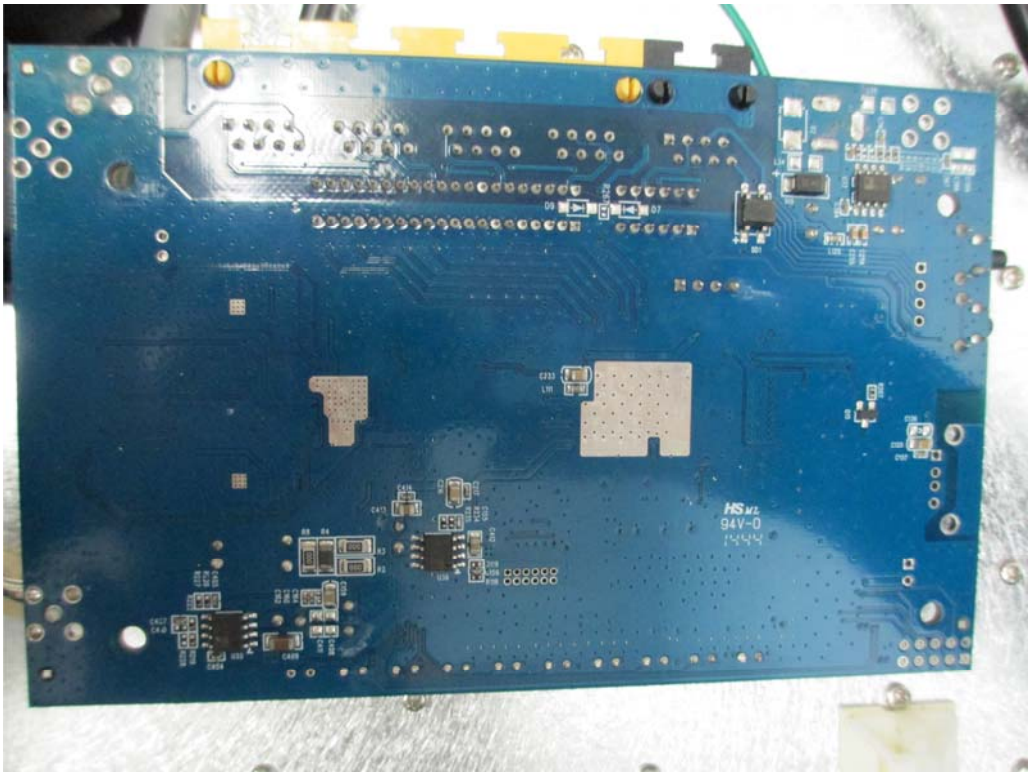


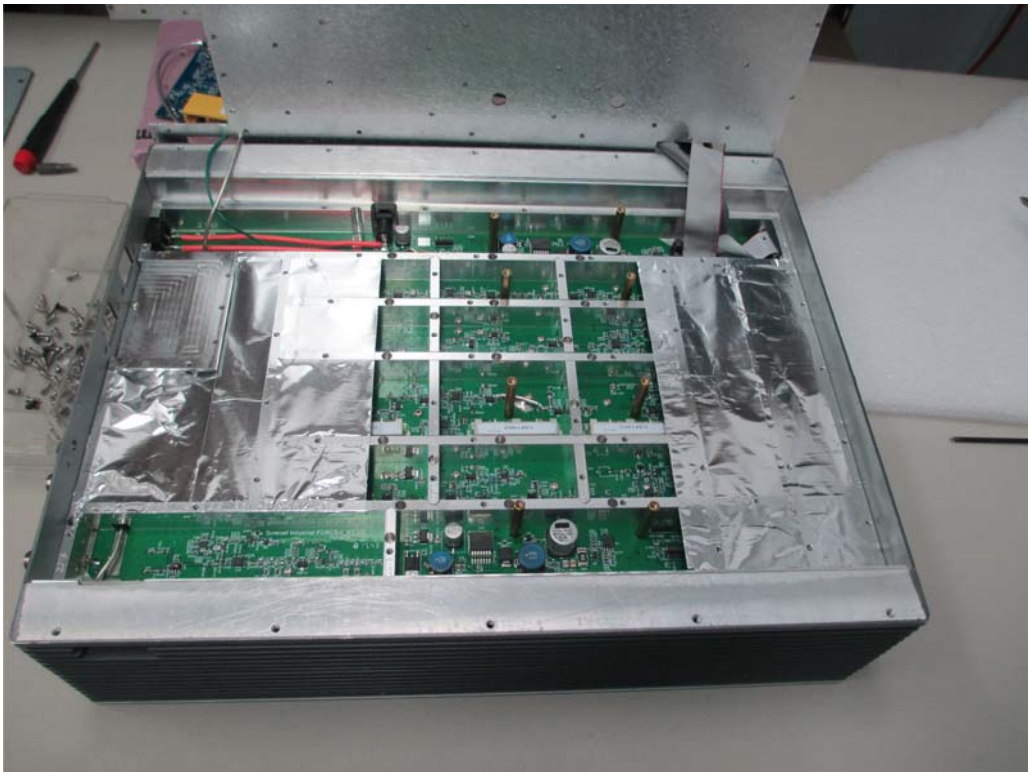

S/N: 1532515H20418
LAN: 00C0CA8800A7
WLAN: 00C0CA8800A9
1148
HN4264VG
V331
AIP-W525H-V330

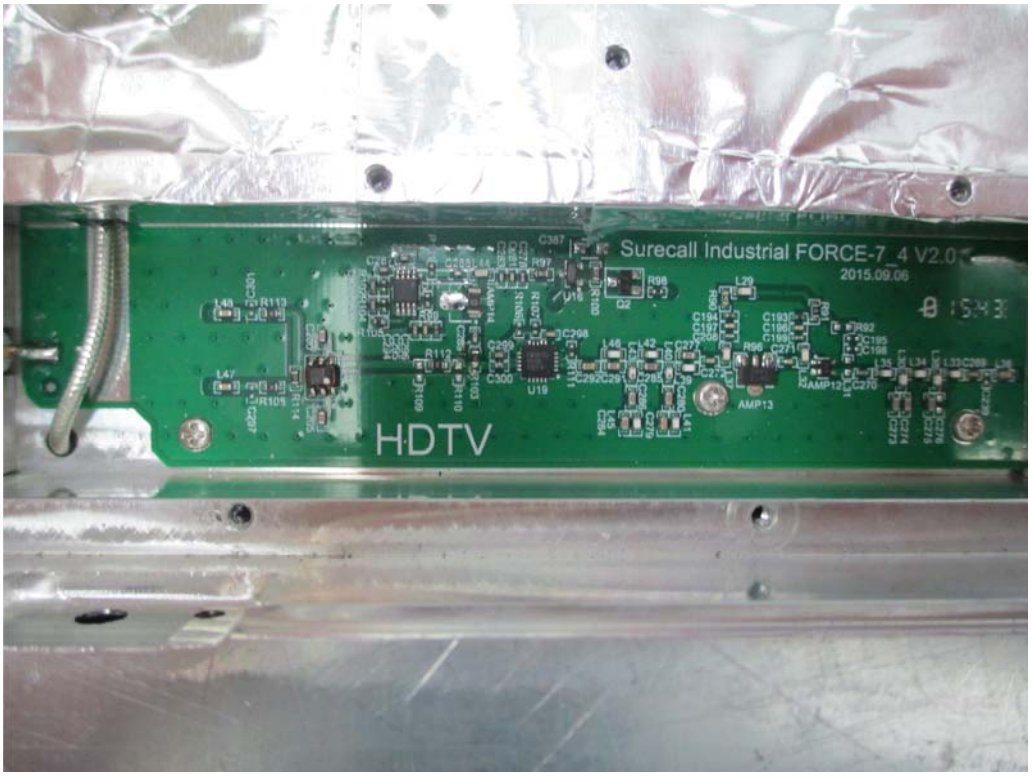

FORCE-7_ALERT V2.0
2015.5.20

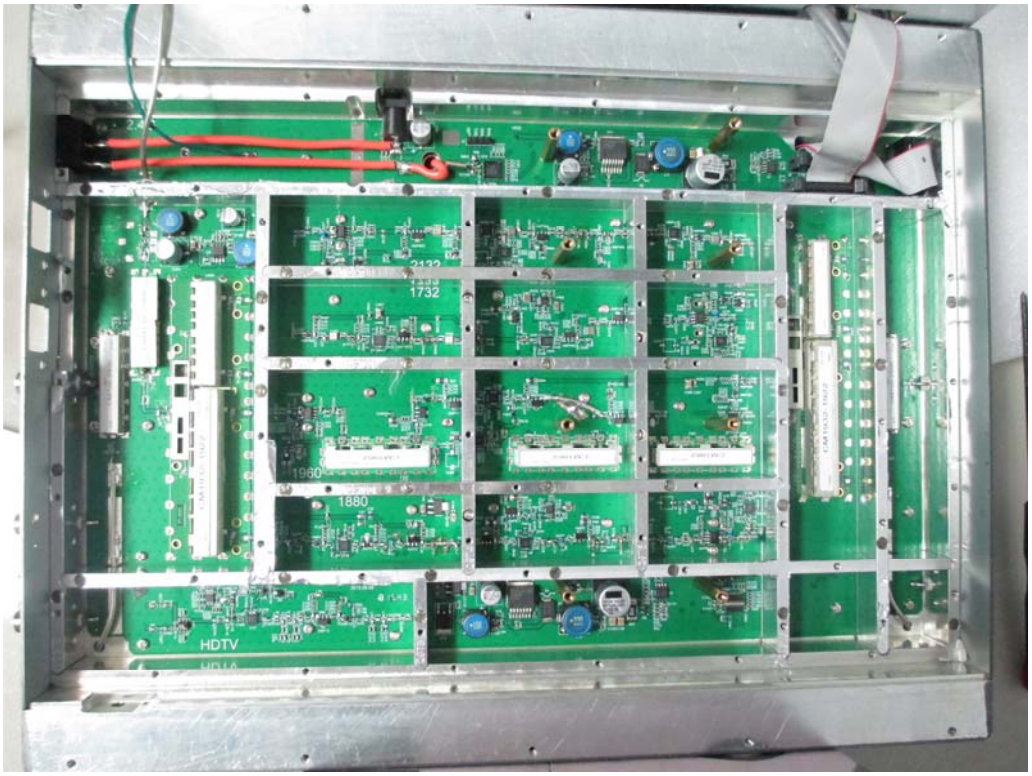


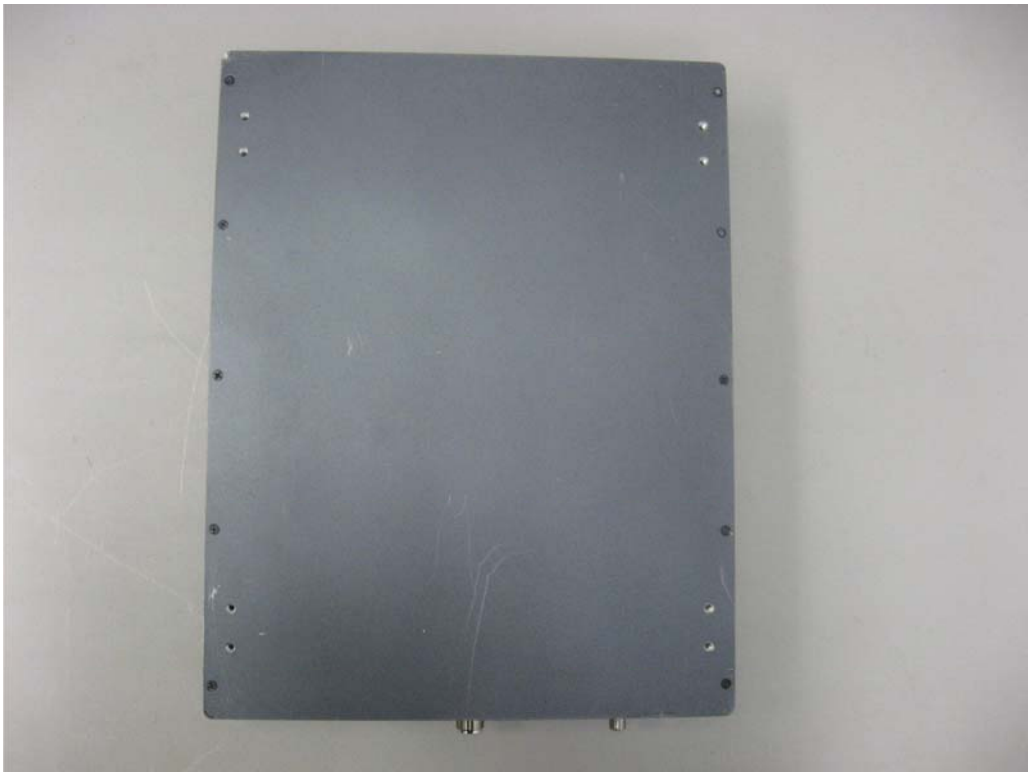



94V-0

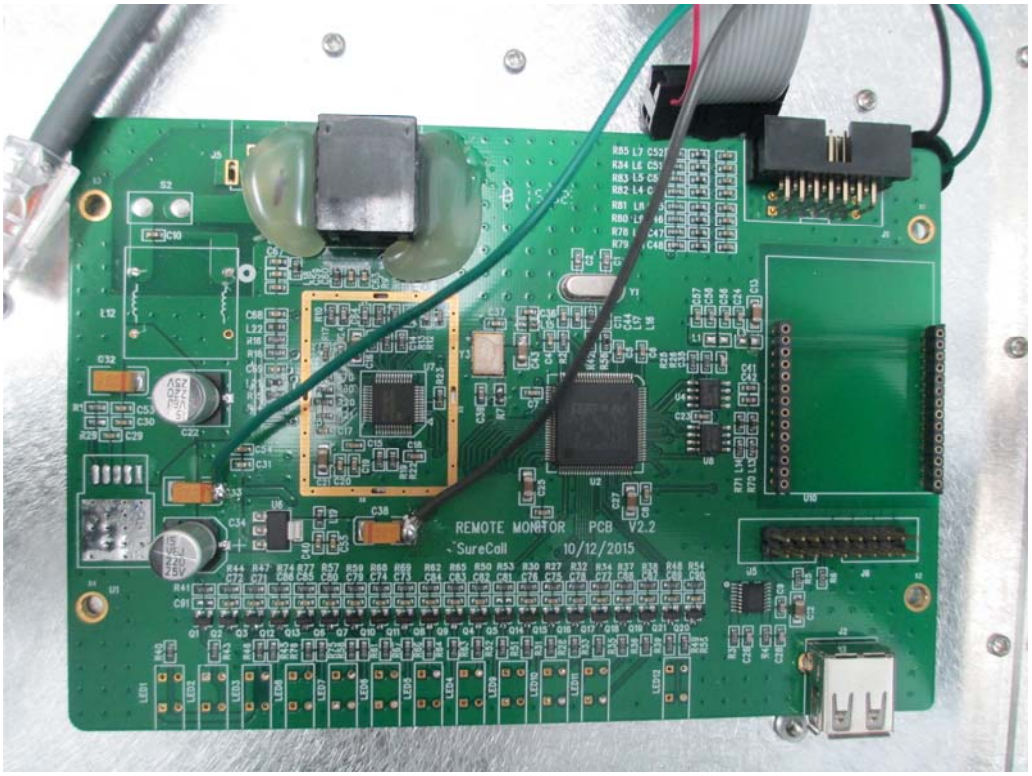


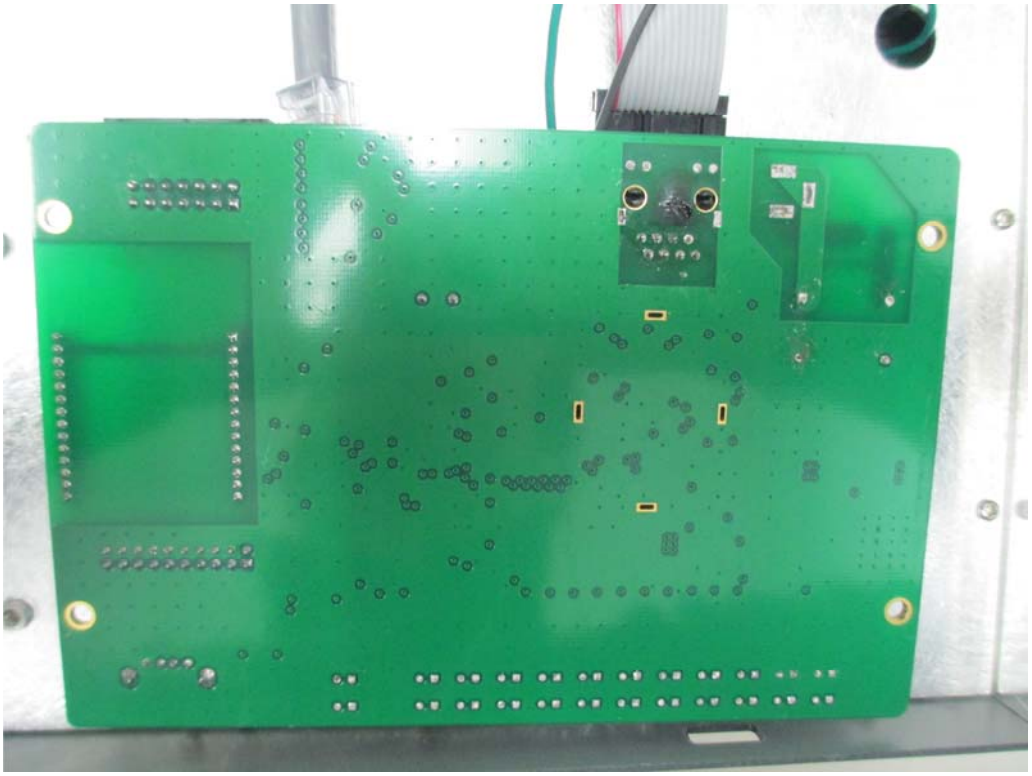

Surecall Industrial FORCE-7_4 V2.0
2015.09.06
HDTV

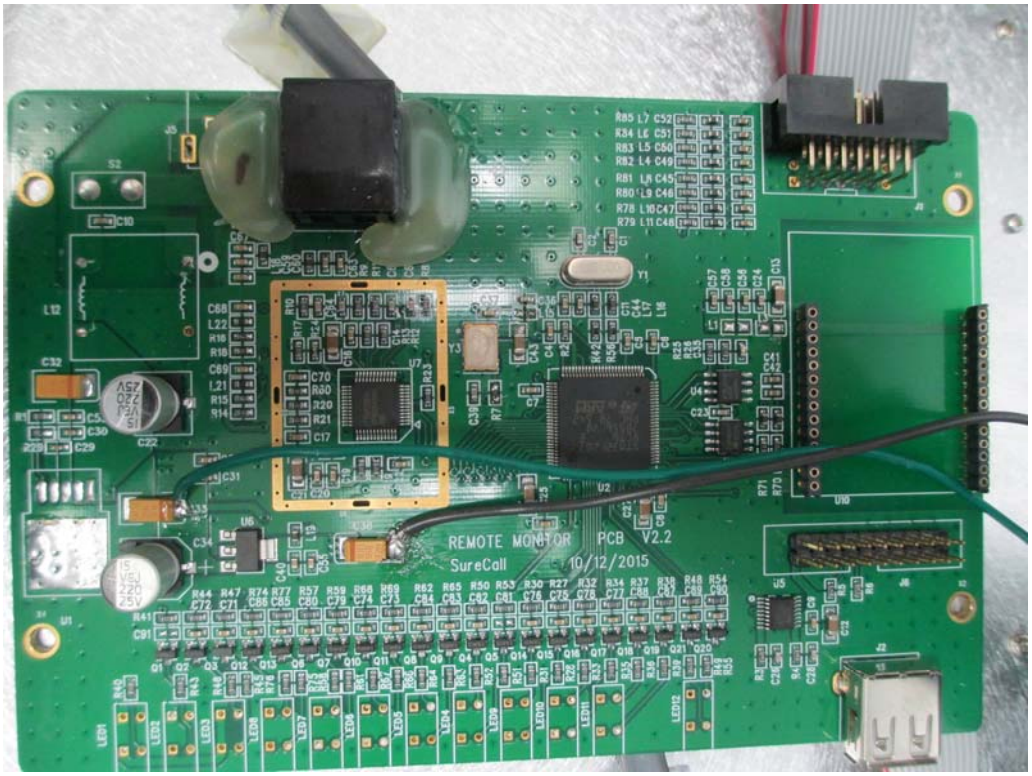

1732
1880
HDTV

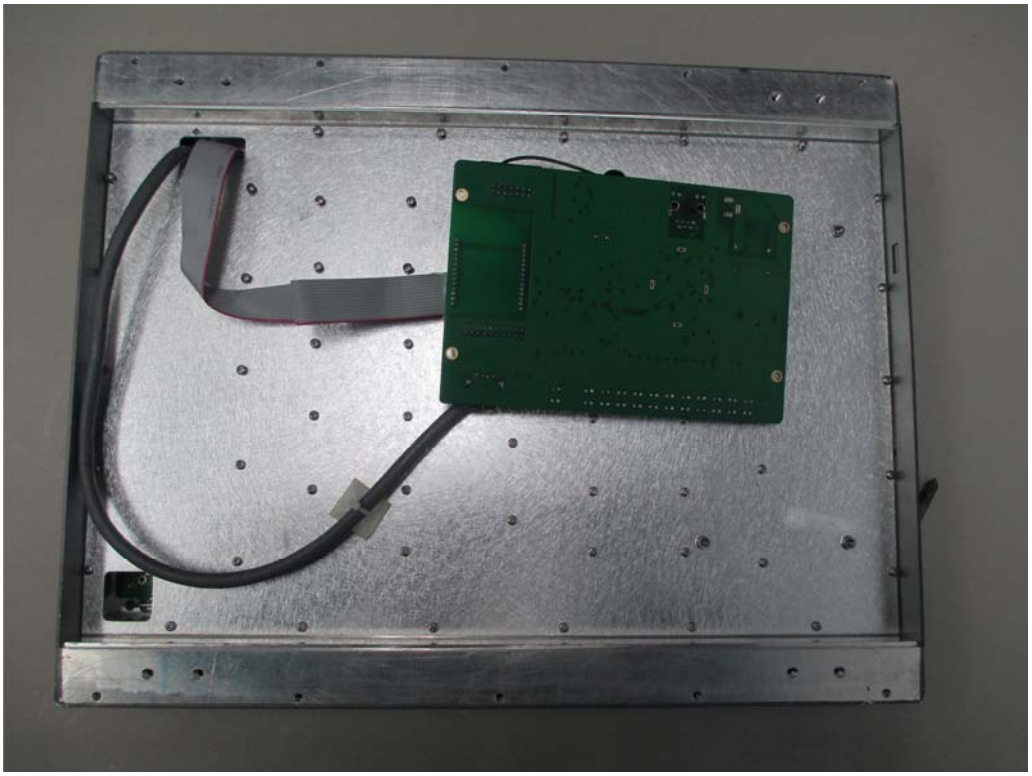


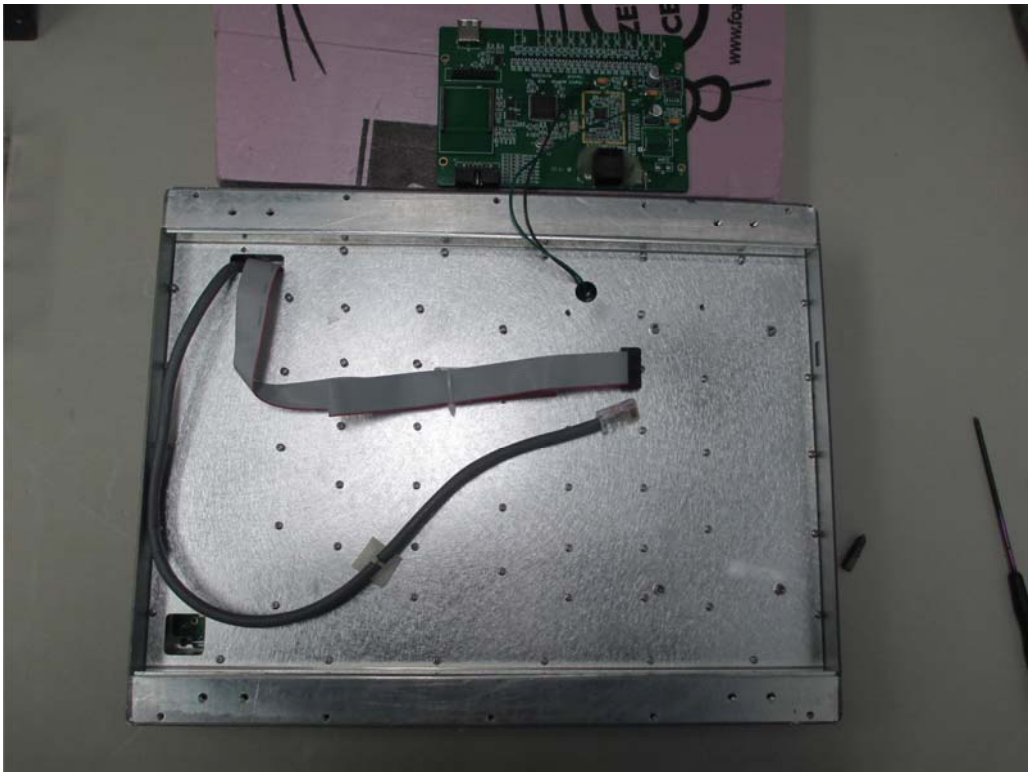
USB
WAN
LAN
OFF ON

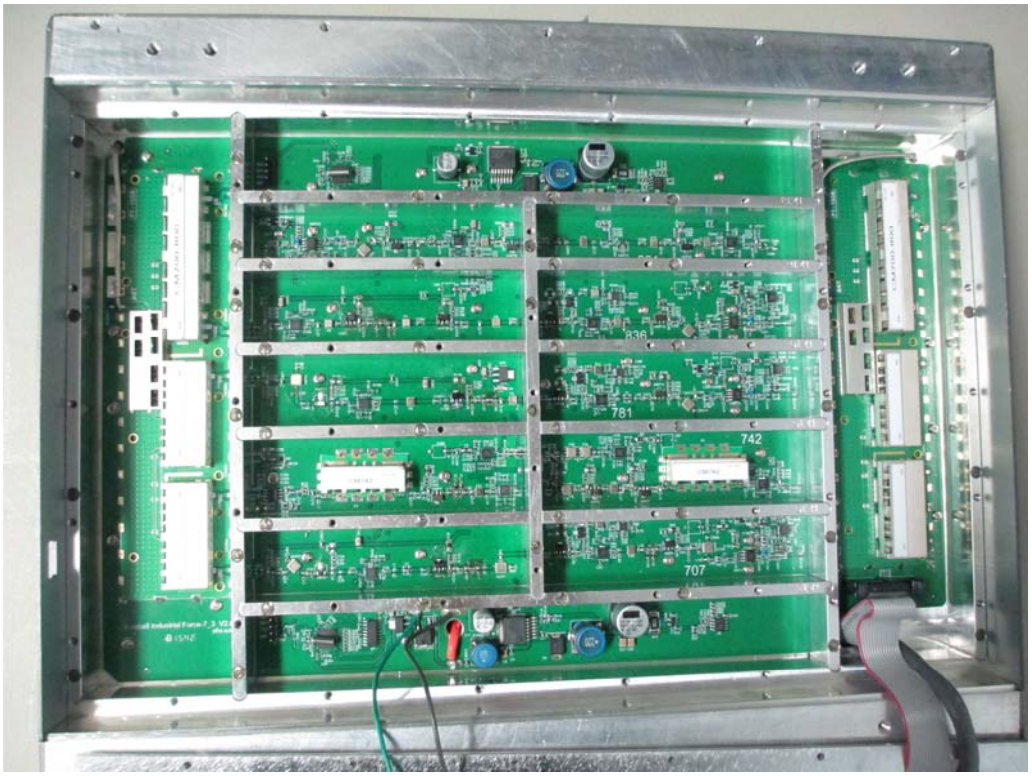

REMOTE MONITOR PCB V2.2
SureCall 10/12/2015

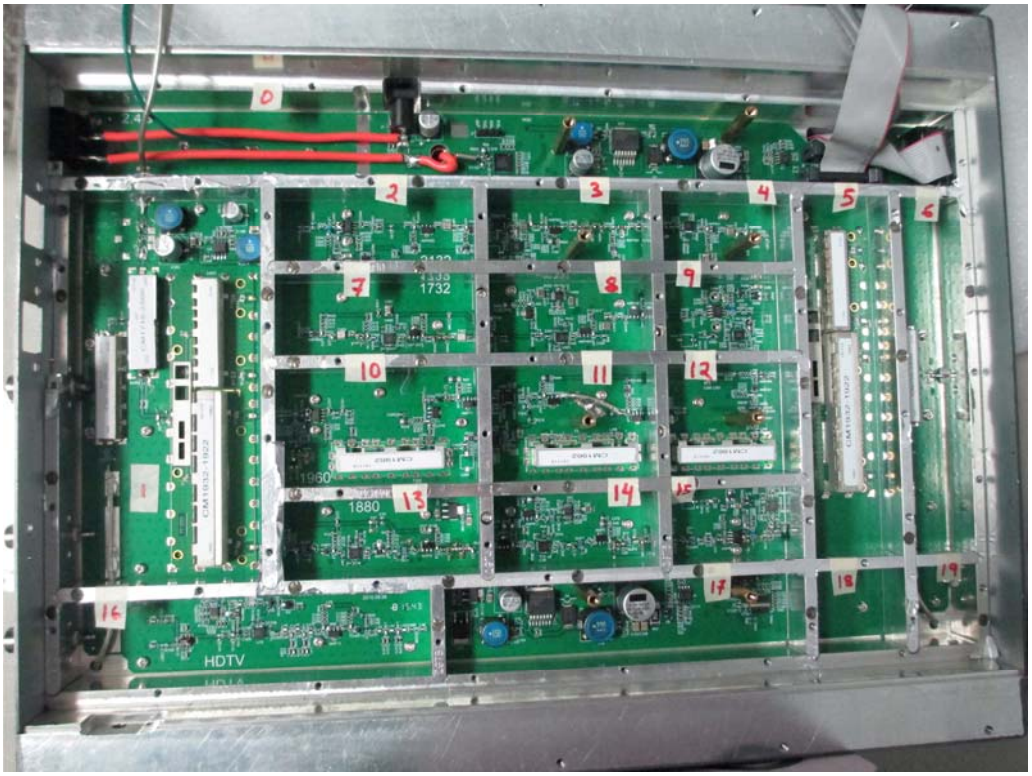


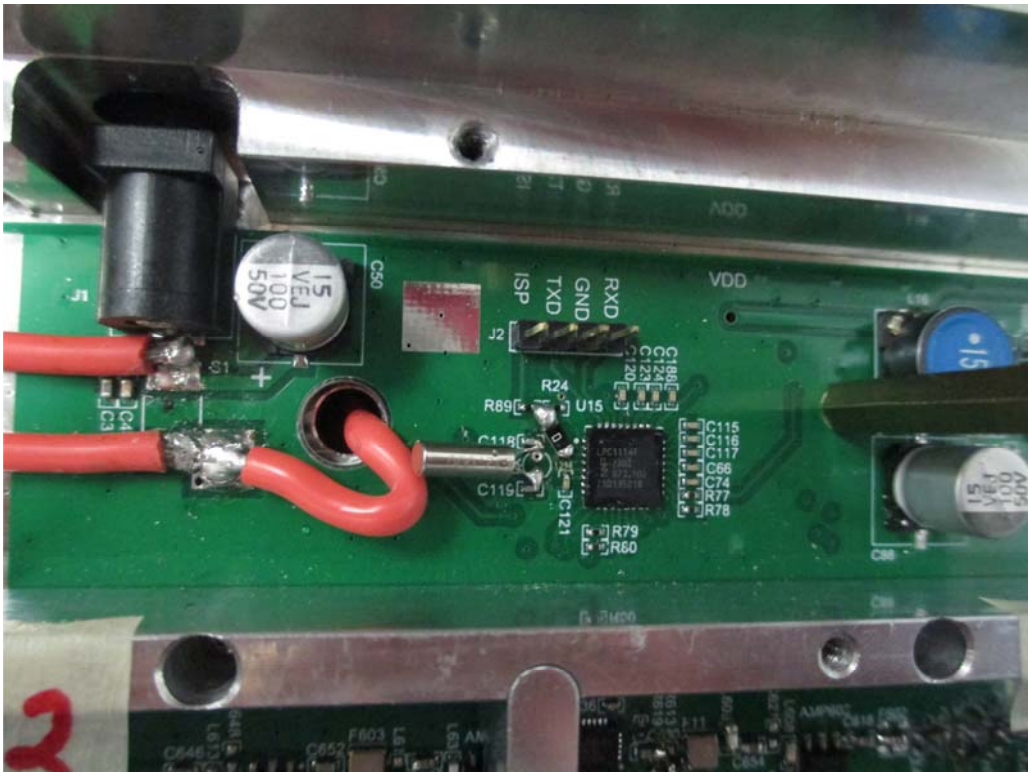

REMOTE MONITOR PCB V2.2
SureCall
10/12/2015

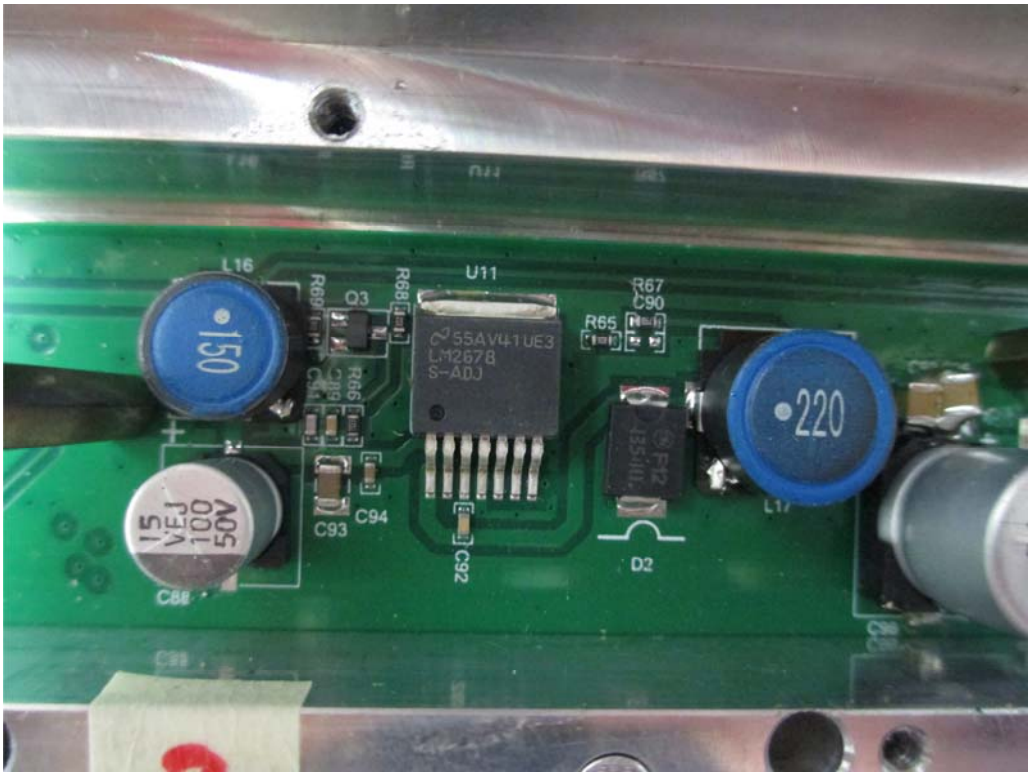


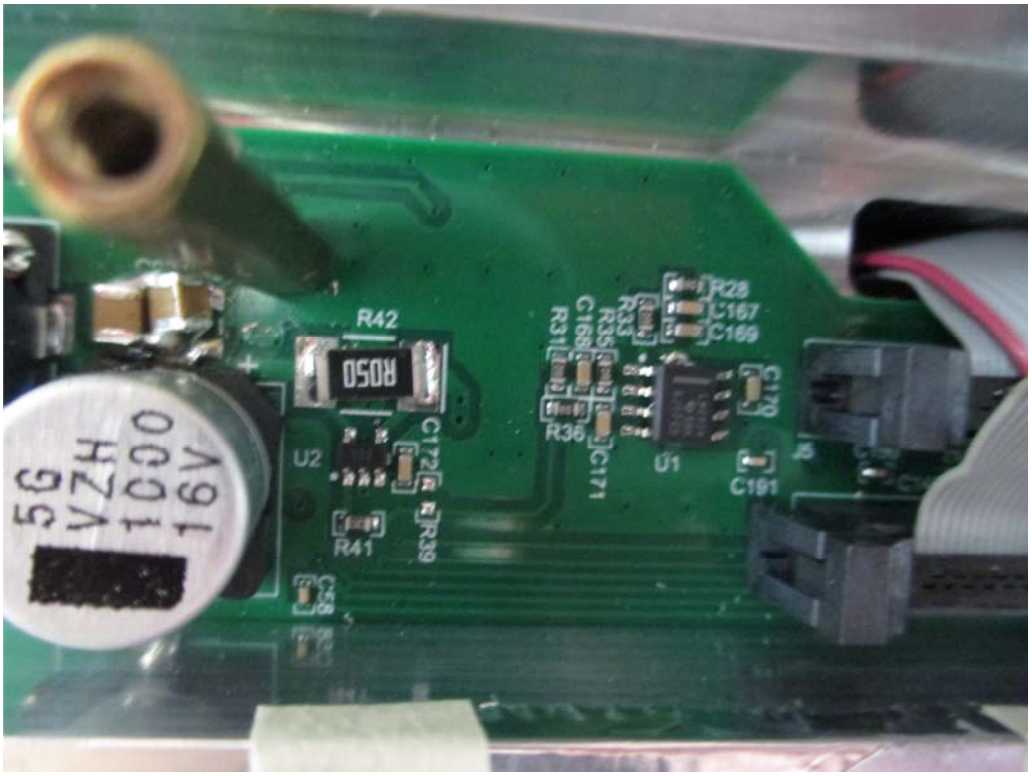


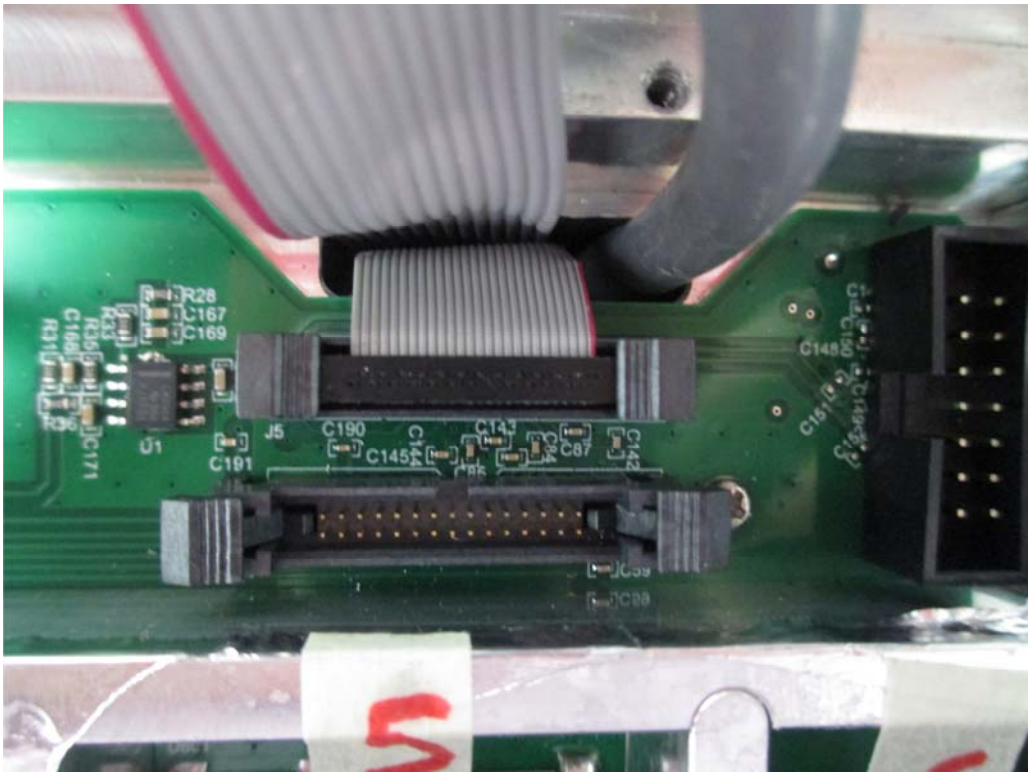

836
781
742
707

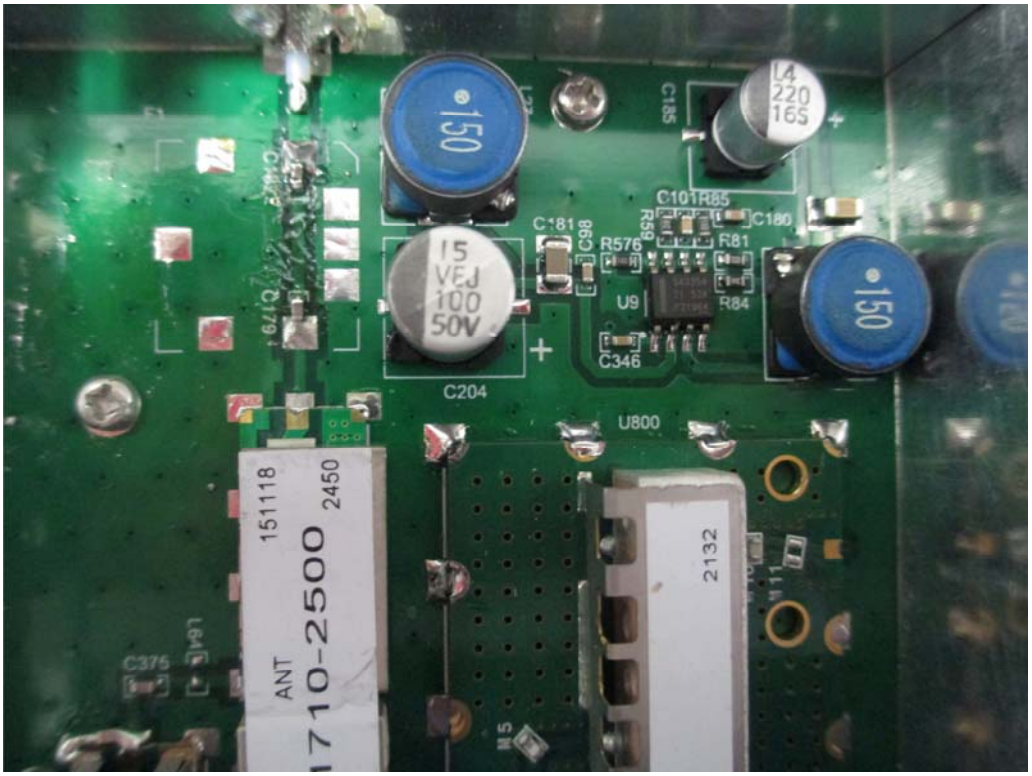

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
1732
1960
1880
HDTV


C50
J1
S1
ISP
TXD
GND
RXD
J2
VDD
R24
R89
U15
C119
C121
R79
R60
C115
C116
C117
C66
C74
R77
R78
2


L16
150
R69
Q3
R68
U11
55AV41UE3
LM2678
S-ADJ
R67
C90
R65
R66
C89
C94
C93
C92
D2
220
L17
15
VEJ
100
50V
C88

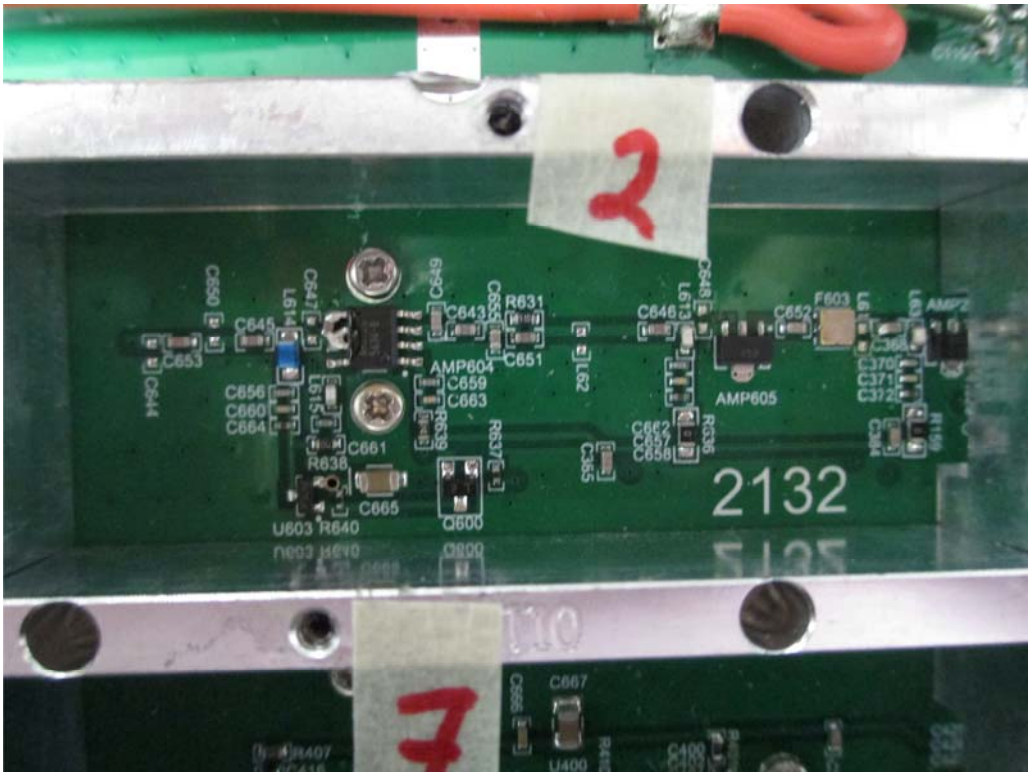

R42
R050
U2
C172
R39
R41
5G
VZH
1000
16V
R28
C167
C169
R31
C168
R33
R35
R36
C171
U1
C170
C191

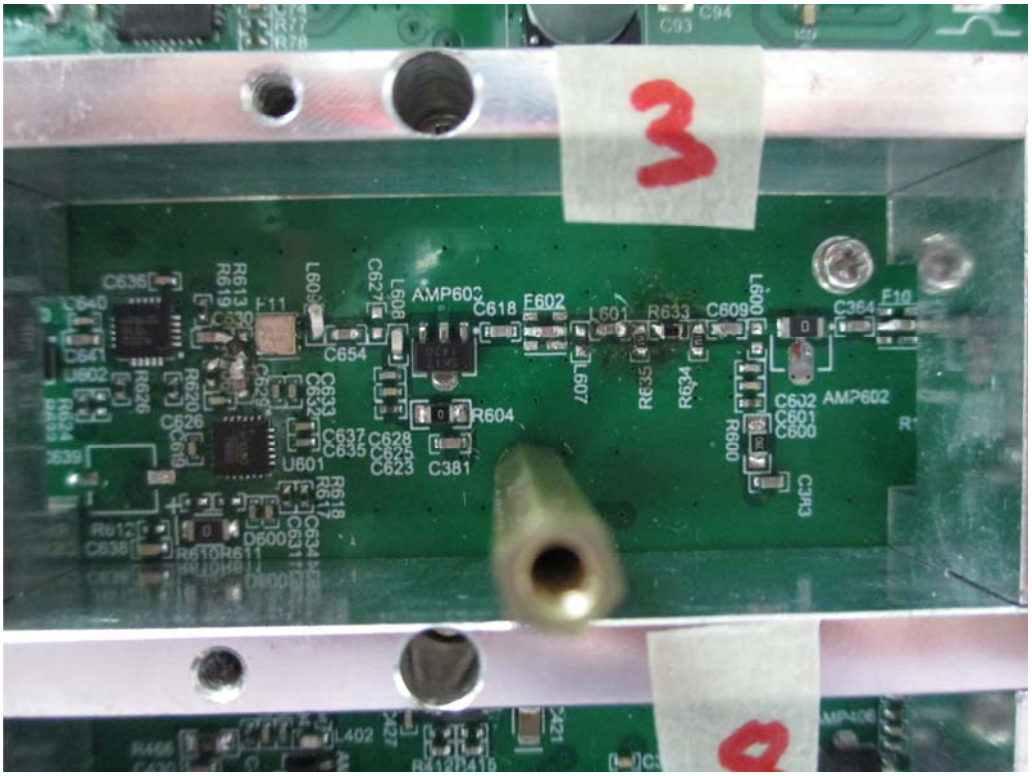

R28
C167
C169
R33
R35
C166
R31
R32
C171
U1
C191
J5
C190
C145
C87
C142
C149
C151
5

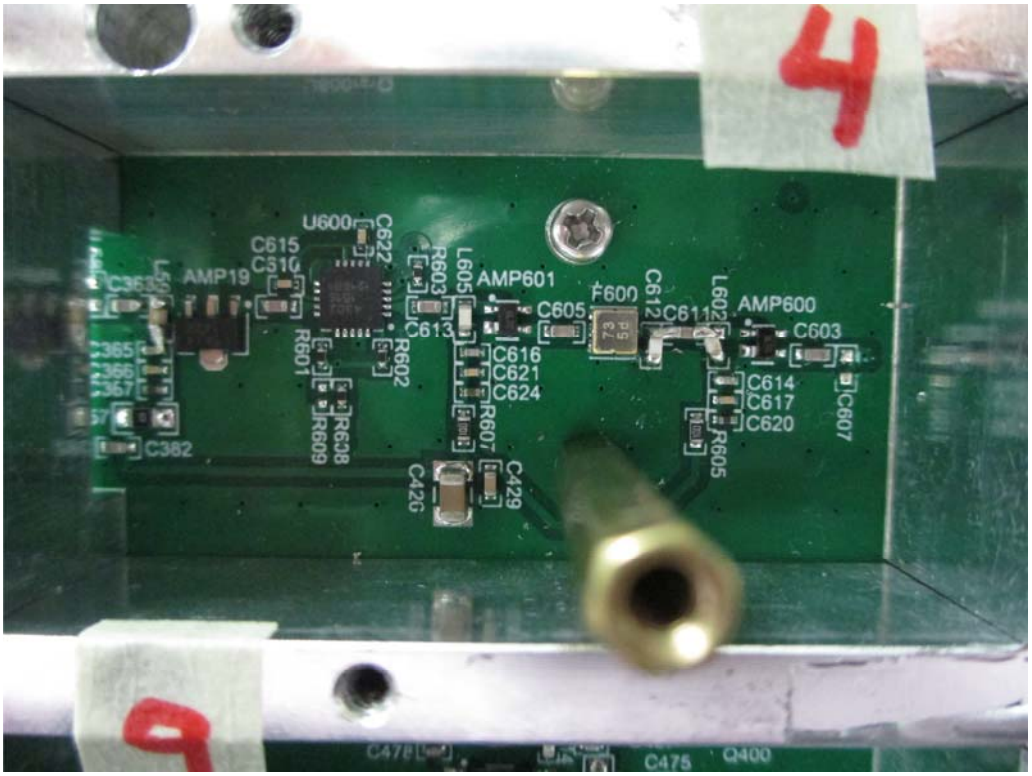

150
15
VEJ
100
50V
C204
C181
C68
R576
R56
C101
R85
C180
R81
R84
U9
C346
C185
220
16S
150
U800
151118
2450
ANT
710-2500
2132
C375
L61

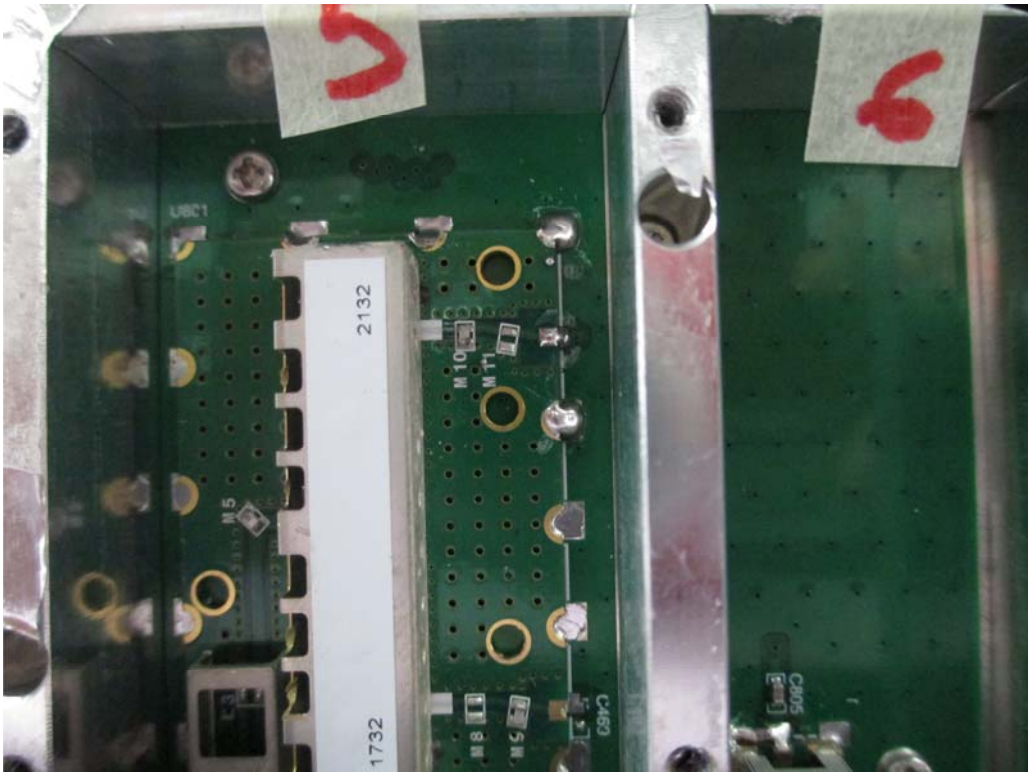
CM1932-1922
1882

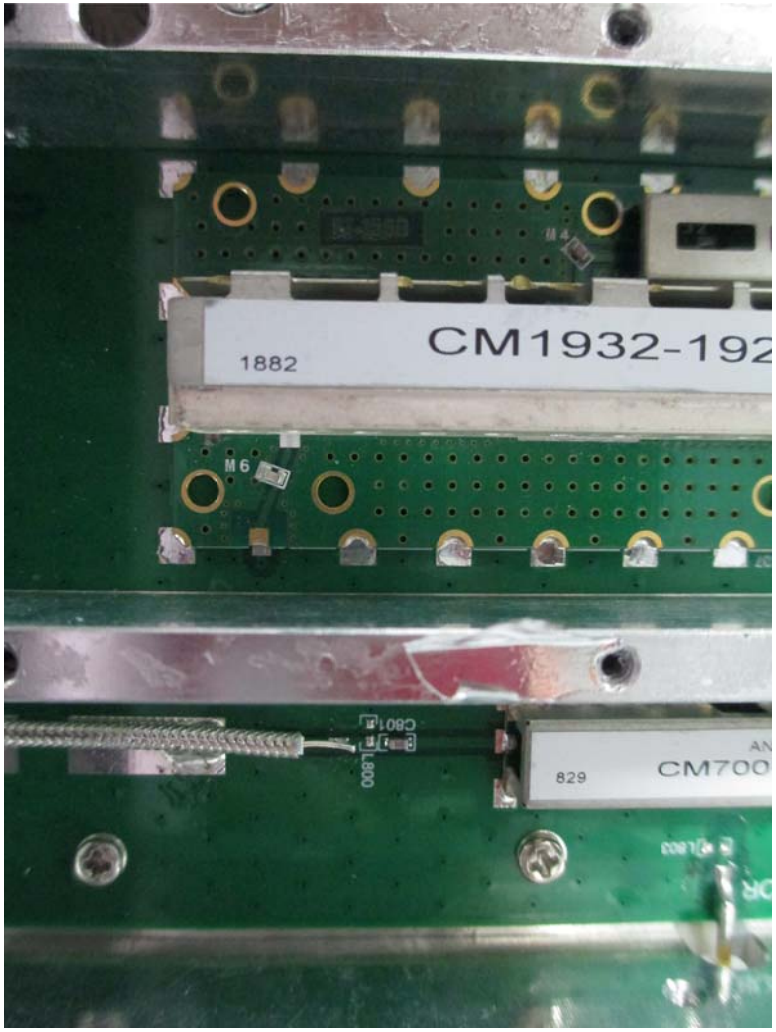
ANT
CM700-2500
829
151118
2105
1932
CM171
151113
1962
1732


2
C650
C645
C653
C644
C656
C660
C664
C661
R638
C665
U603
R640
C649
C643
R631
C655
C651
AMP604
C659
C663
R639
R637
Q600
L614
L615
L613
L612
C646
C652
F603
AMP605
C662
C657
C658
R636
C365
C370
C371
C372
R169
2132
7
C667
U400

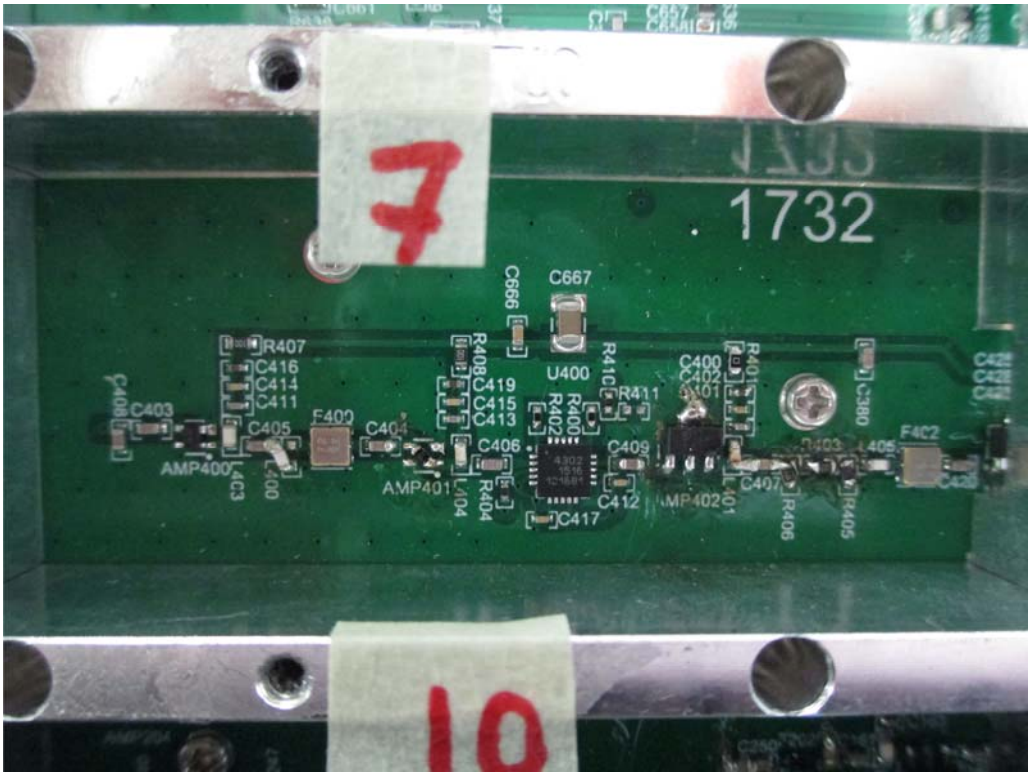

3
C636
C640
C641
U602
R626
R624
R625
C639
R613
R619
F11
L603
C627
L608
AMP603
C618
F602
L601
R633
C609
L600
C364
F10
C654
C633
C632
C637
C635
C628
C625
C623
C381
R604
U601
C626
C619
R620
R618
R617
C634
C621
D600
R610
R611
R612
C638
L607
R635
R634
C602
C601
C600
AMP602
R600
C363
L402
R412
R419
C421

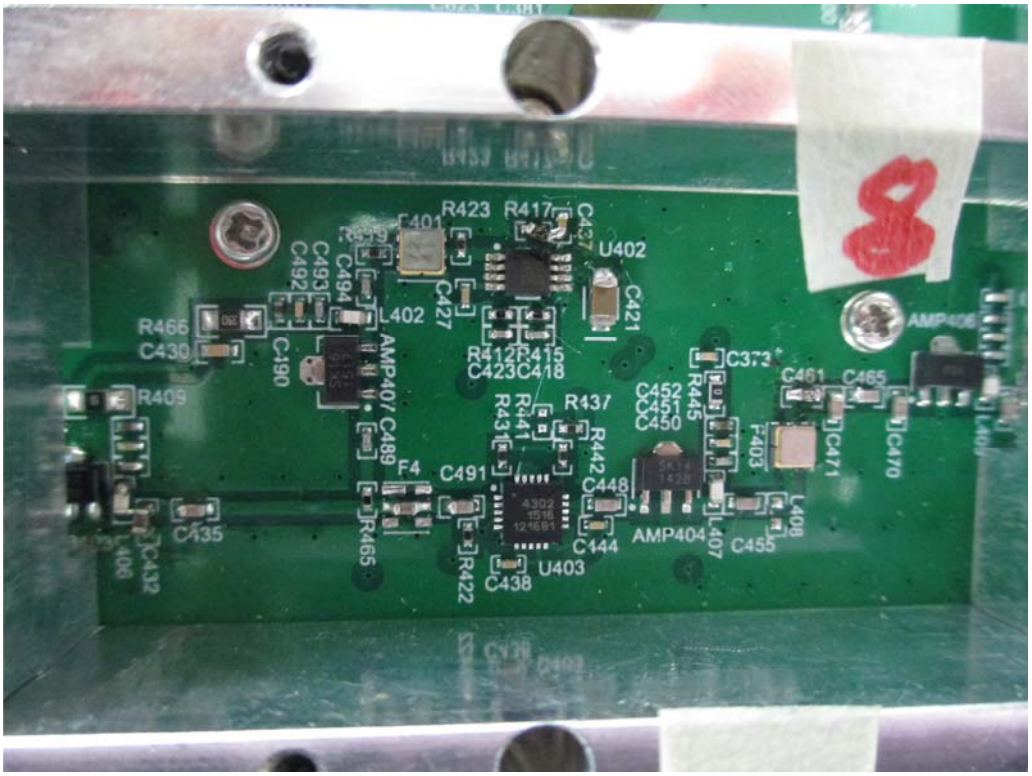

4
U600
C622
C615
C310
AMP19
C363
L605
AMP601
R603
C613
C605
F600
C612
C611
L602
AMP600
C603
R601
R602
C616
C621
C624
C614
C617
C620
C607
R605
R607
R638
R609
C382
C420
C429
C475
Q400

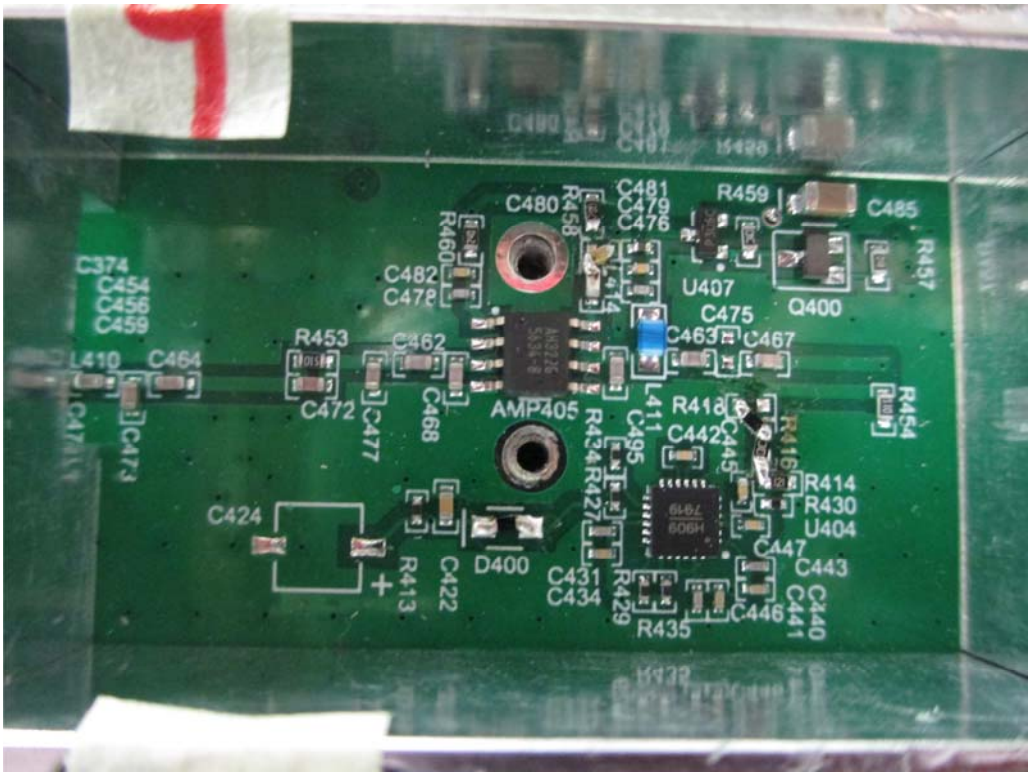

5
6
2132
1732
C460
C805


1882
CM1932-192
829
CM700

32-1922
151113
1962
1732
ANT
CM700-2500
151118
2105
829
OUTDOOR


7
1732
C667
C666
R407
C416
C414
C411
C408
C403
C405
F400
C404
AMP400
L403
L400
AMP401
L404
R404
R408
C419
C415
C413
C406
R402
R400
U400
R410
R411
C400
C402
C401
R401
C409
C412
C417
AMP402
L401
C407
R403
L405
R406
R405
C380
F402
C428
10

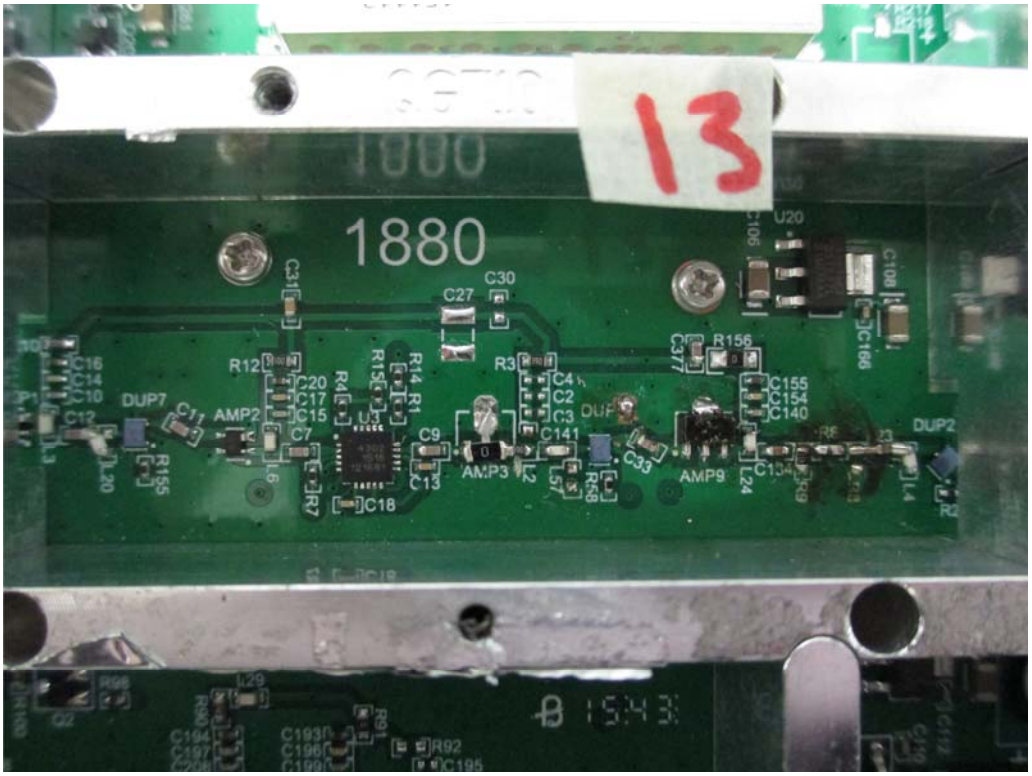

8
R423
R417
C437
U402
C421
C401
R419
C492
C493
C494
C427
L402
R466
C430
C190
AMP407
C489
R409
R412
R415
C423
C418
R441
R431
R437
R442
C491
F4
C448
C444
U403
C438
R422
R465
C435
C432
C406
C452
C451
C450
R445
C373
C461
C465
AMP406
F403
C471
C470
AMP404
C455
L407
L408

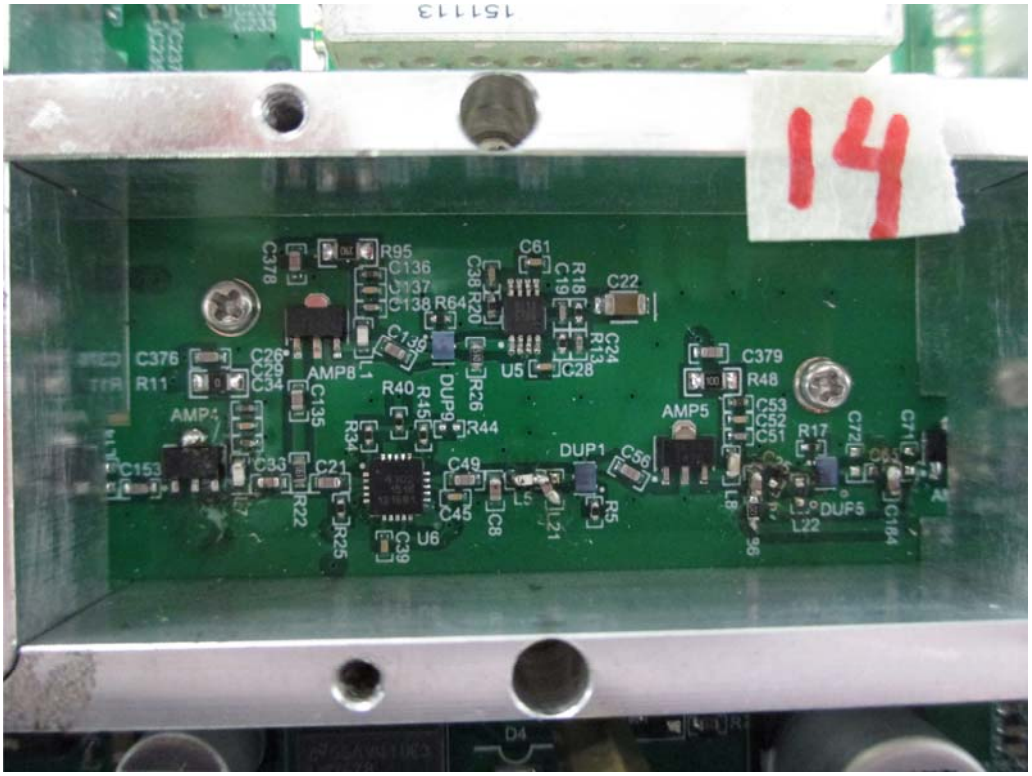

9
C480
C481
C479
C476
R459
C485
R457
R458
R460
C482
C478
U407
Q400
C475
C463
C467
C374
C454
C456
C459
R453
C462
L410
C464
C472
C477
C468
AMP405
L411
R418
C442
C445
R454
C473
R434
R427
C495
R416
R414
R430
U404
C424
D400
C422
R413
C431
C434
R429
C447
C443
C440
C441
C446
R435

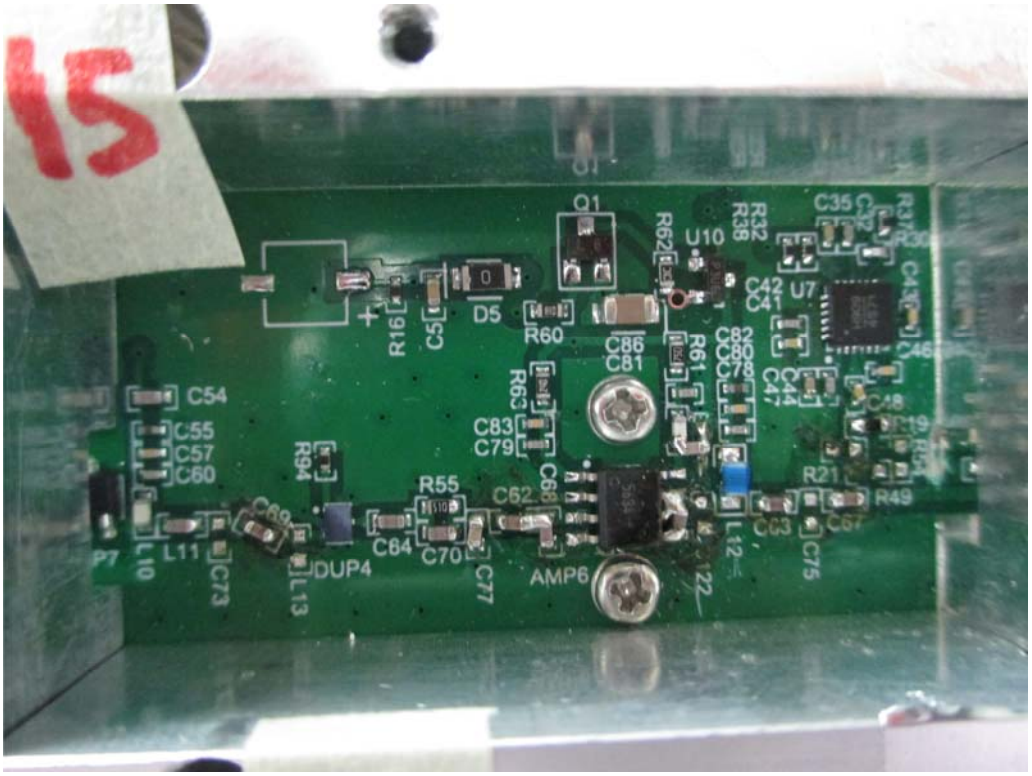
10
AMP204
C240
C247
C251
C243
L212
C241
C248
R225
C255
C259
R232
C244
R231
R233
U203
C252
C256
C260
C267
C261
C268
R229
AMP205
C250
C253
C254
C258
L211
C246
C245
L203
AMP11
L206
R203
D203
C264
L214
C265
F204
CM1962
151113
1960

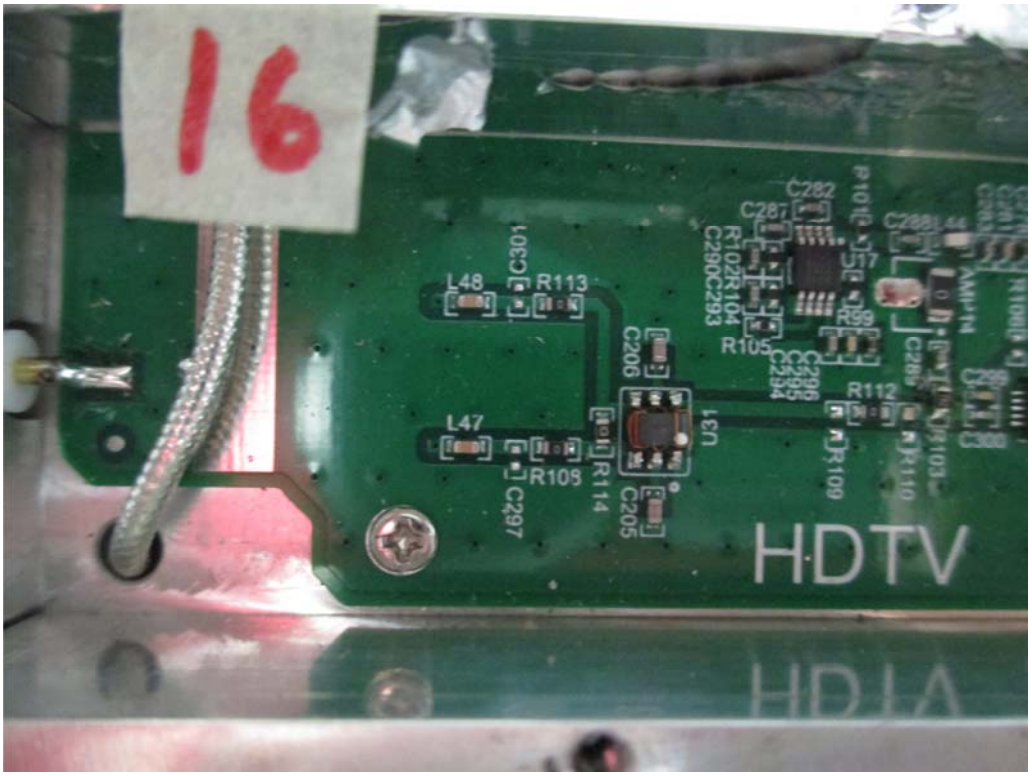
R204
C223
C225
C228
AMP203
U202
C262
R219
C230
L214
C227
L207
F205
R216
R226
C263
R227
R223
R224
R222
R220
U201
C219
R209
C226
R215
R212
C229
C232
C233
C237
C235
F2
L206
C156
C157
C158
AMP10
L25
CM1962
151113

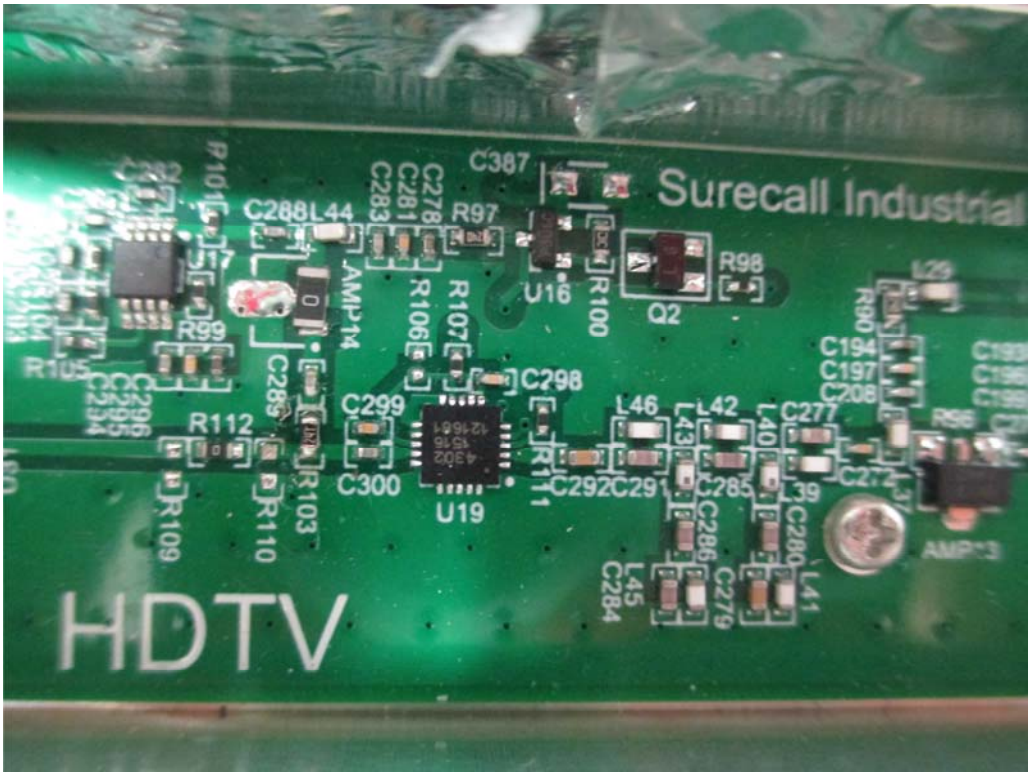
R205
C214
C217
C220
L202
C211
C203
AMP200
C266 C267
C216
C221
C224
AMP201
R207
L205
C200
C201
C202
AMP202
C159
C209
L200
R203
C213
U200
C222
R202
R209
R201
R208
C215
C210
L204
F201
CM1962
151113


13
1880
C31
C30
C27
U20
C106
C108
C166
R156
C37
R12
C20
C17
C15
R4
R15
R14
R1
R3
C4
C2
C3
C155
C154
C140
DUP7
C16
C14
C10
C12
AMP2
C11
U1
C7
C9
C141
DUP
C33
AMP9
R6
DUP2
R155
L20
L6
R7
C18
C13
AMP3
L2
L7
R58
C134
L24
L4
R2

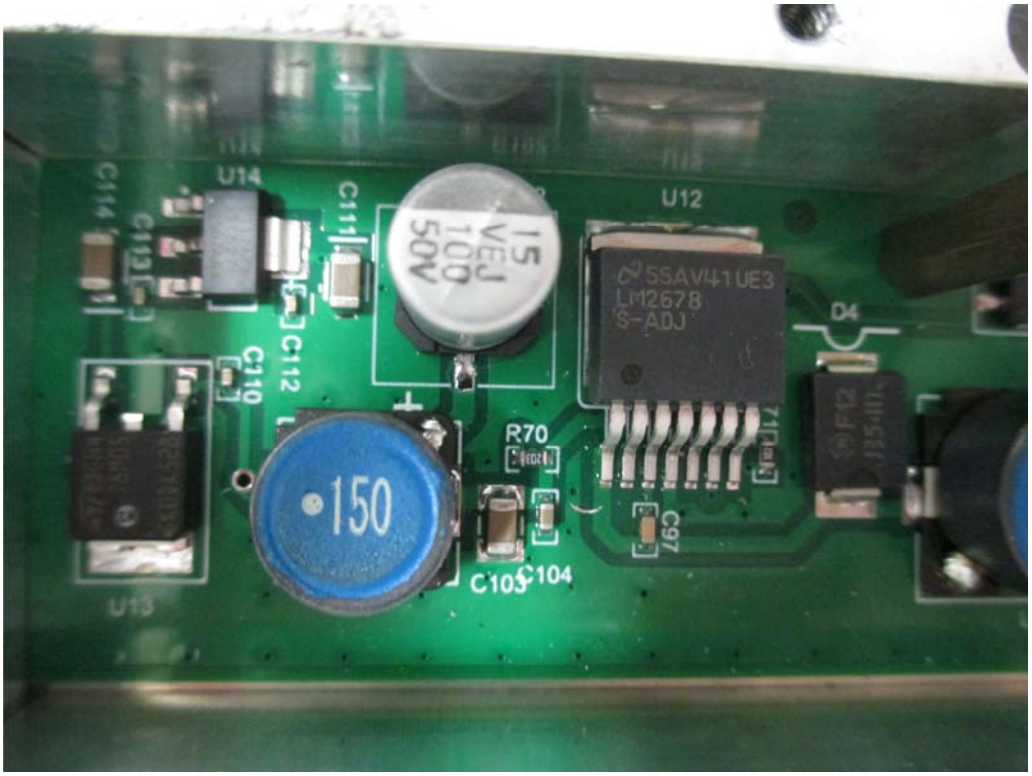

14
C378
R95
C136
C137
C138
R64
C61
C38
R20
C19
R18
C22
C24
R13
C139
U5
C28
C376
R11
C26
C34
AMP8
L1
C135
R40
R45
DUP9
R26
R44
C379
R48
AMP4
R34
C153
C33
C21
R22
R25
C49
C45
U6
C39
C8
L5
L21
DUP1
C56
R5
AMP5
C53
C52
C51
R17
C72
C71
C65
C184
L8
L22
DUP5
D4

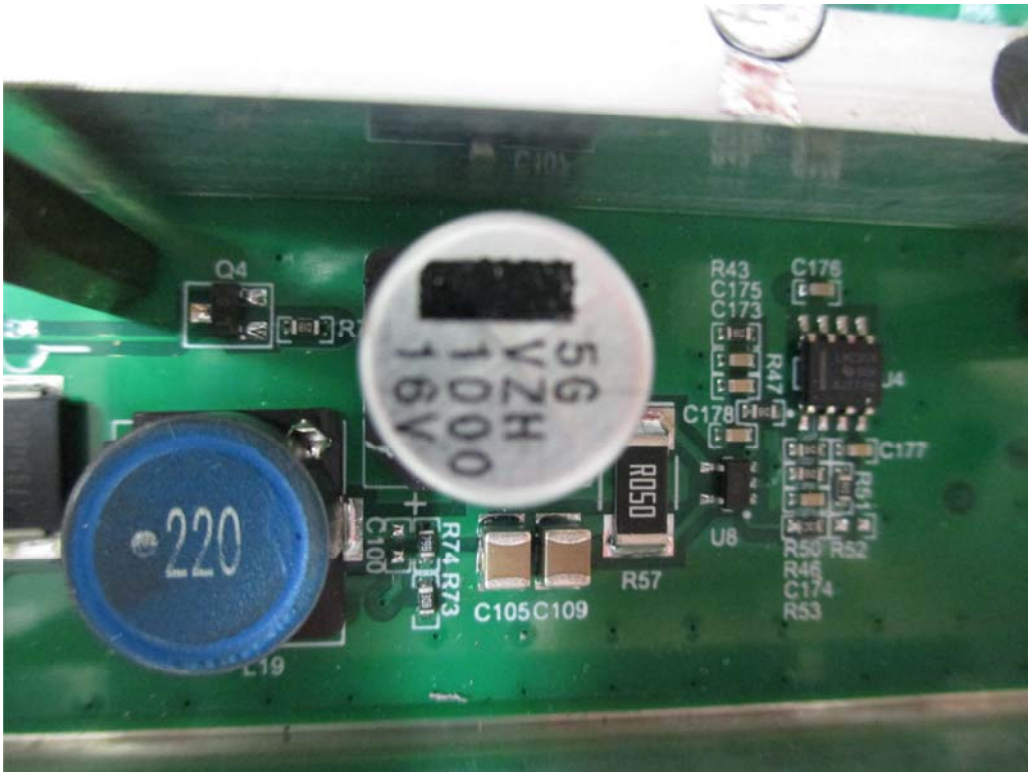

15
Q1
R62
U10
R32
R38
C35
C42
C41
U7
R16
C5
D5
R60
C86
C81
C82
C80
C44
C47
C46
C48
C54
C55
C57
C60
R63
C83
C79
R94
R55
C62
C66
R21
R49
C63
C67
C75
C69
C64
C70
C77
AMP6
L12
P7
L10
L11
C73
L13
DUP4

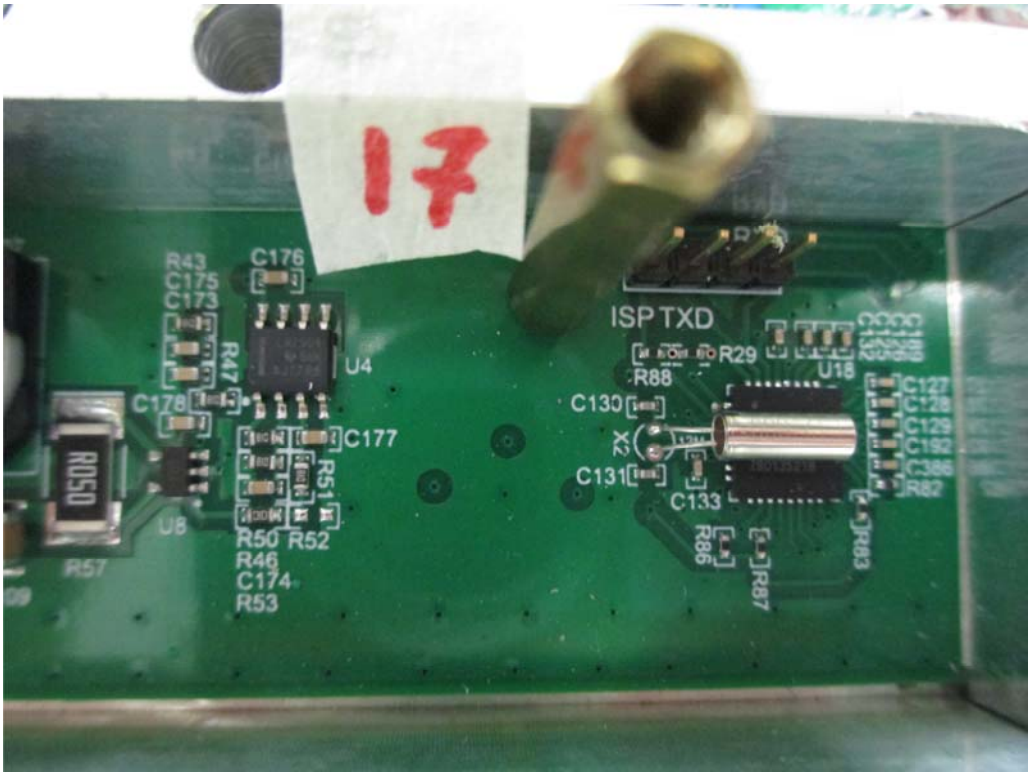

16
C282
C287
R102
R104
C290
C293
U17
R99
R105
C296
C295
C294
R112
L48
C301
R113
C206
U31
L47
R108
R114
C205
C297
R109
R110
HDTV

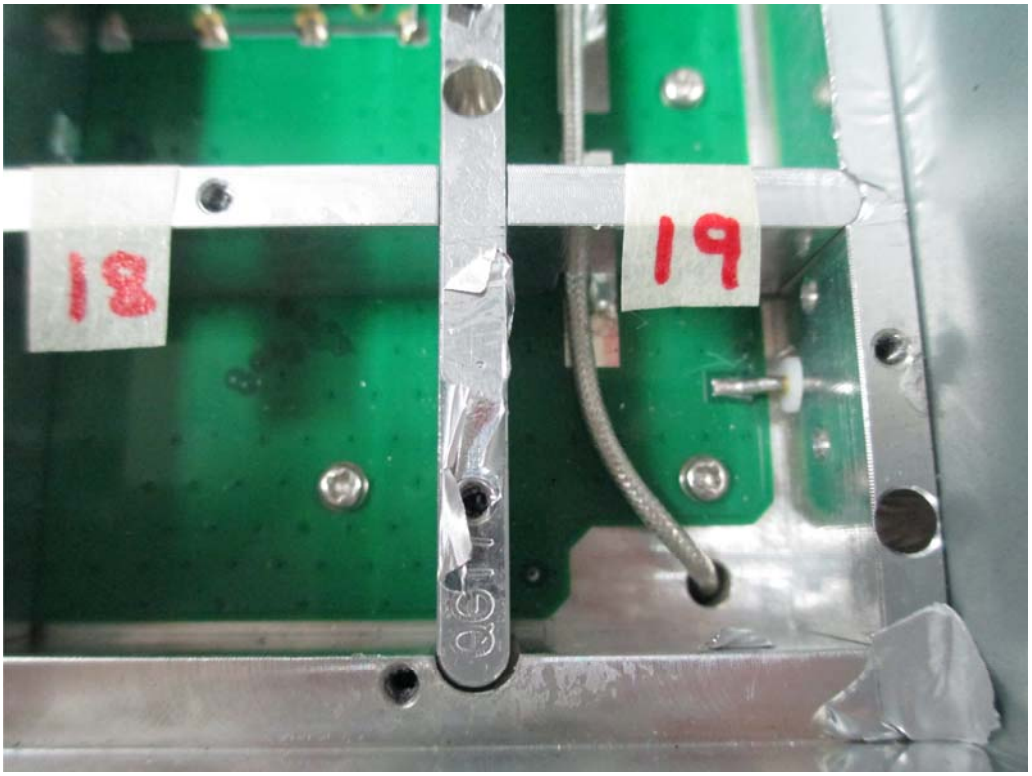

Surecall Industrial
HDTV
C387
C288
L44
R97
R98
Q2
U16
R100
R99
R105
R106
R107
AMP14
C298
C299
C300
U19
R111
R112
R103
R110
R109
L46
L42
L43
L40
C277
C292
C291
C285
C286
C280
L45
C284
C279
L41
L29
R90
C194
C197
C208
R96
AMP13

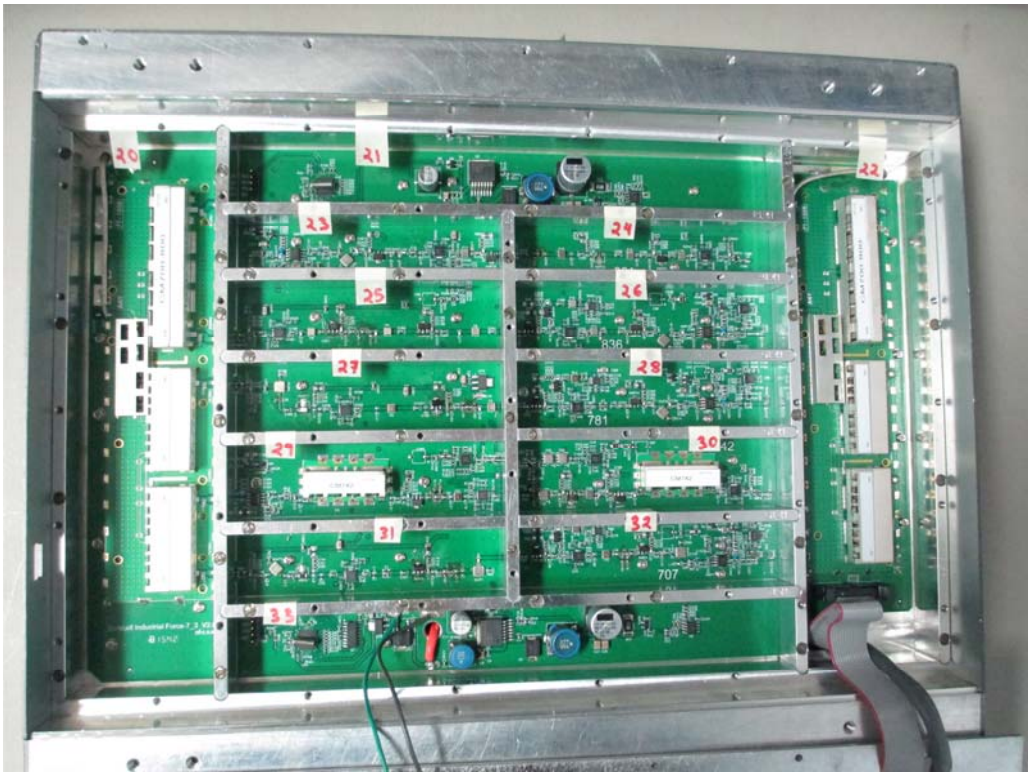
Surecall Industrial FORCE-7_4 V2.0
2015.09.06
R98
Q2
L29
R90
C194
C197
C208
C193
C196
C199
R91
R92
C195
C198
R96
C271
L42
L40
C277
C272
L37
L39
C280
L41
AMP13
L32
AMP12
L31
C270
L35
L30
L34
L38
L33
C269
L36
C239
C273
C274
C275
C276


U14
C114
C113
C111
C112
C110
U13
150
15
VEJ
100
50V
U12
55AV41UE3
LM2678
S-ADJ
D4
R70
C105
C104
C97

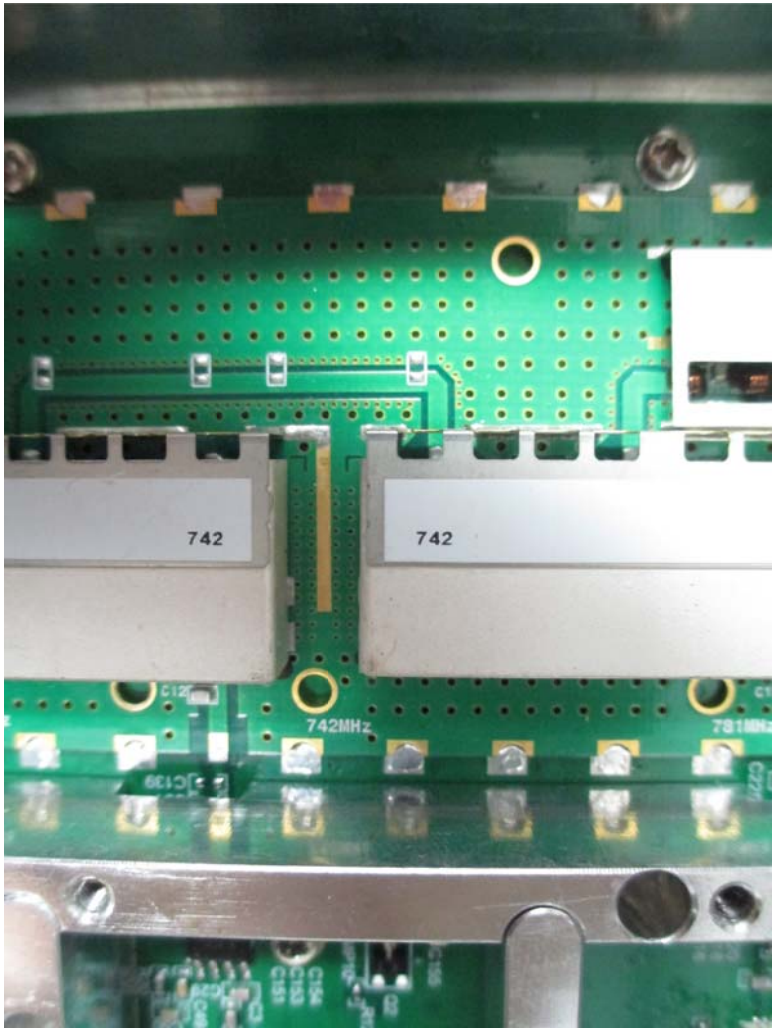

Q4
220
L19
C100
R74
R73
C105
C109
5G
VZH
1000
16V
R050
R57
R43
C175
C173
C176
R47
C178
U8
J4
C177
R51
R50
R52
R46
C174
R53

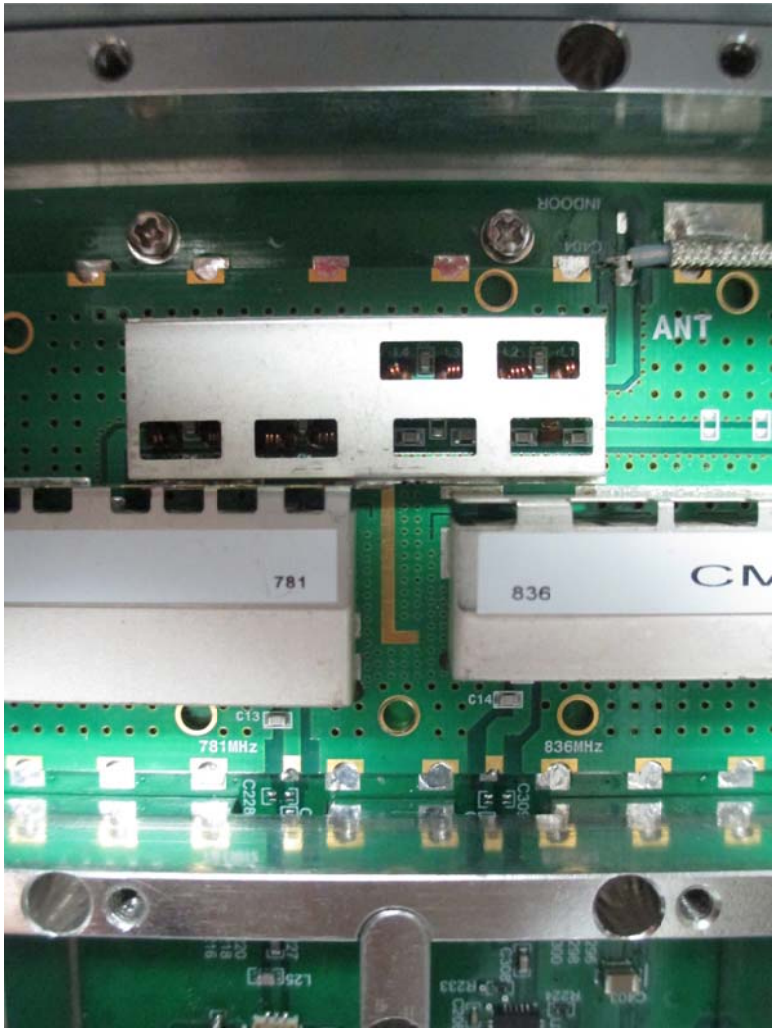

17
R43
C176
C175
C173
R47
U4
C178
C177
R051
U8
R57
R50
R52
R46
C174
R53
ISP TXD
R29
R88
U18
C130
X2
C131
C133
R86
R87
R83
R82
C127
C128
C129
C192
C386

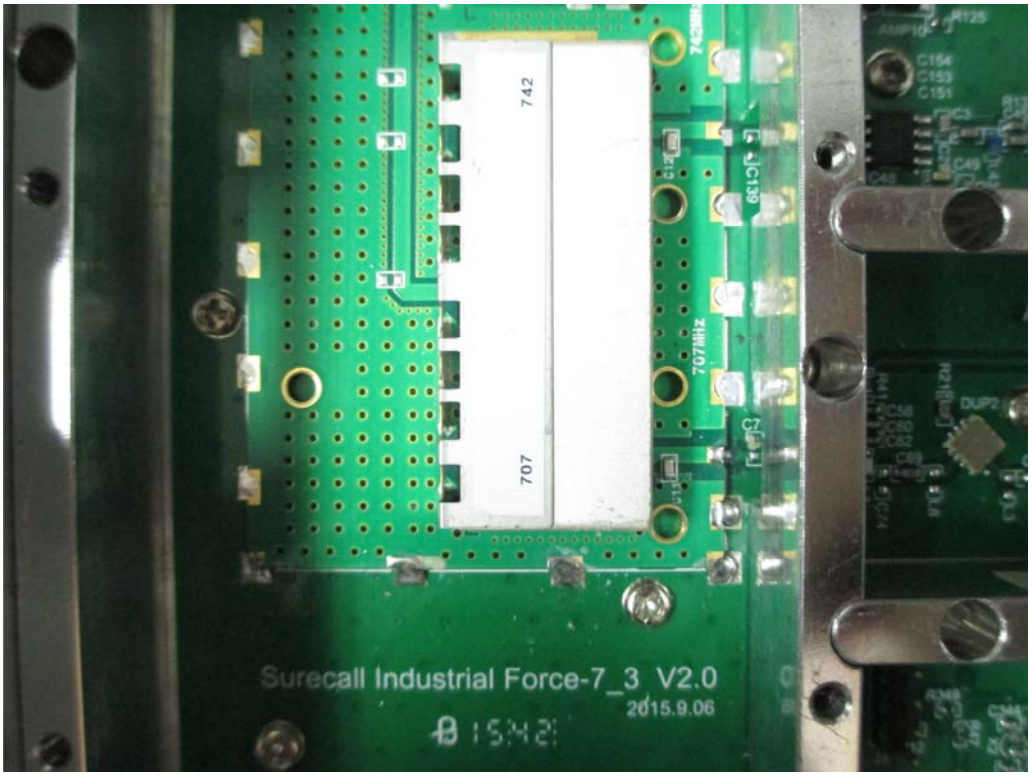

18
19

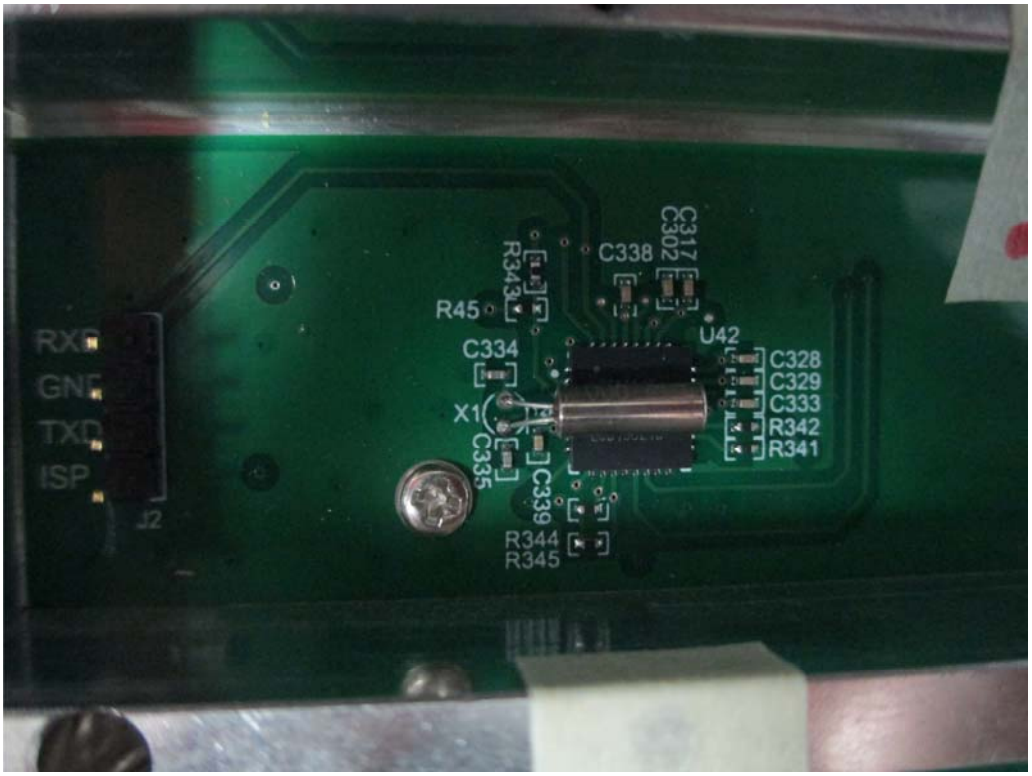

20
21
22
23
24
25
26
27
28
29
30
31
32
33
836
781
707

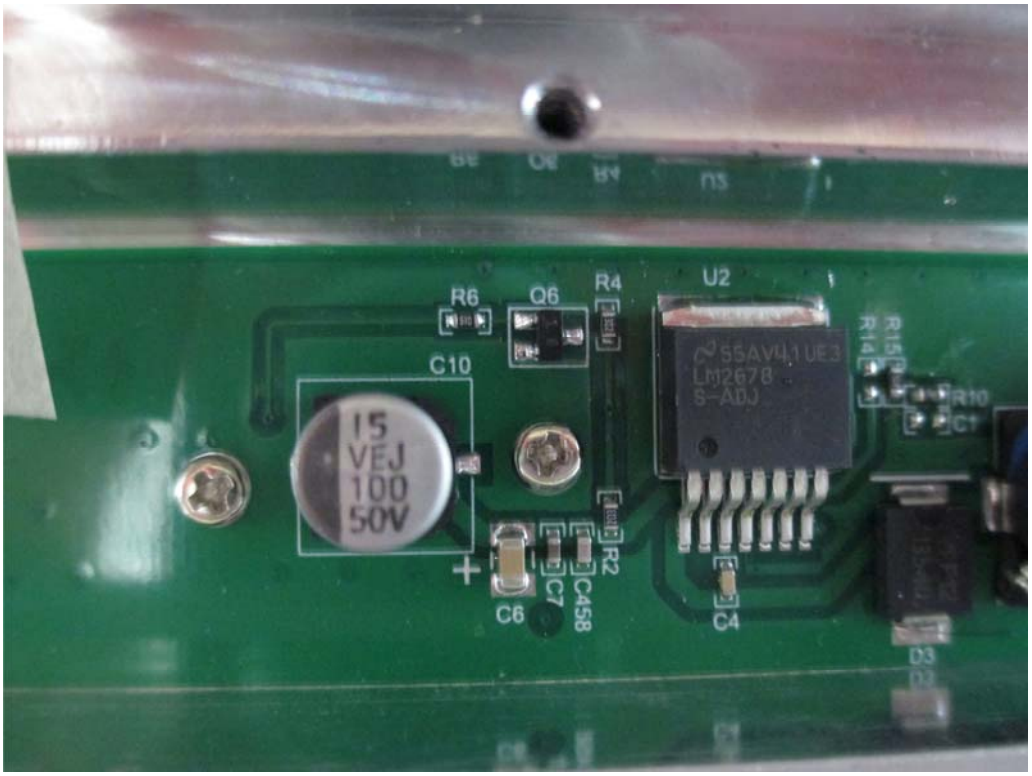
PT-155B
ANT
CM700-800
151123
881

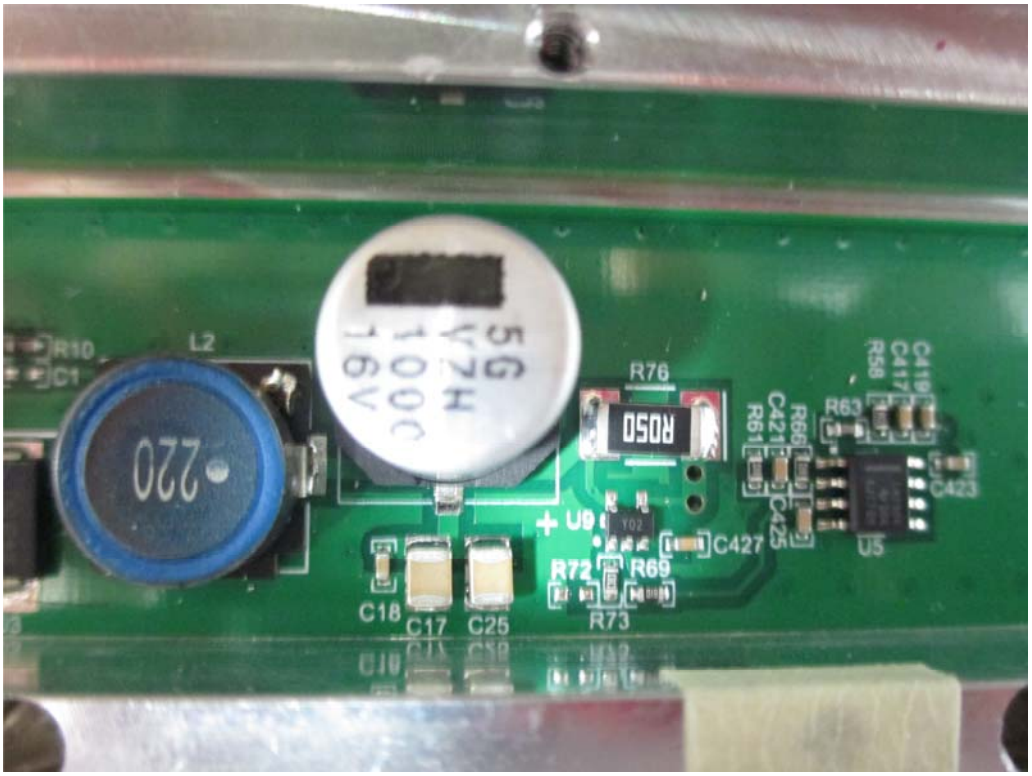

742
742
742MHz


ANT
781
836
781MHz
836MHz


742
707
707MHz
C139
C12
C3
C154
C153
C151
C49
AMP10
R125
DUP2
Surecall Industrial Force-7_3 V2.0
2015.9.06

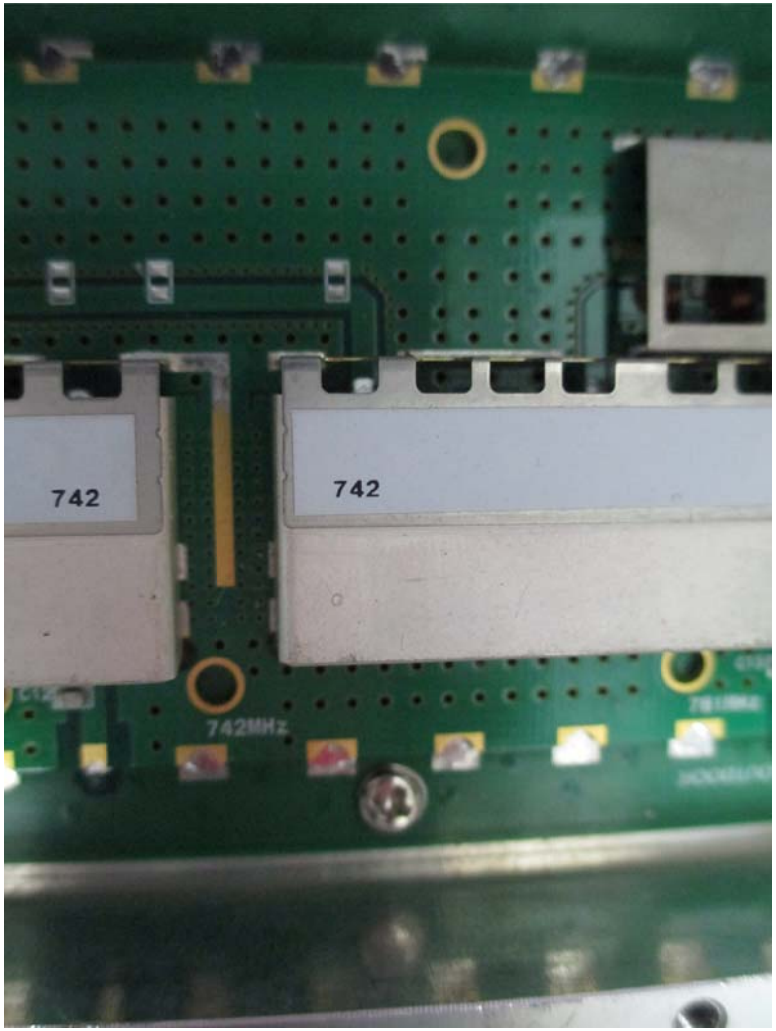

RXD
GND
TXD
ISP
J2
R343
R45
C334
X1
C335
C338
C317
C302
U42
C328
C329
C333
R342
R341
C339
R344
R345

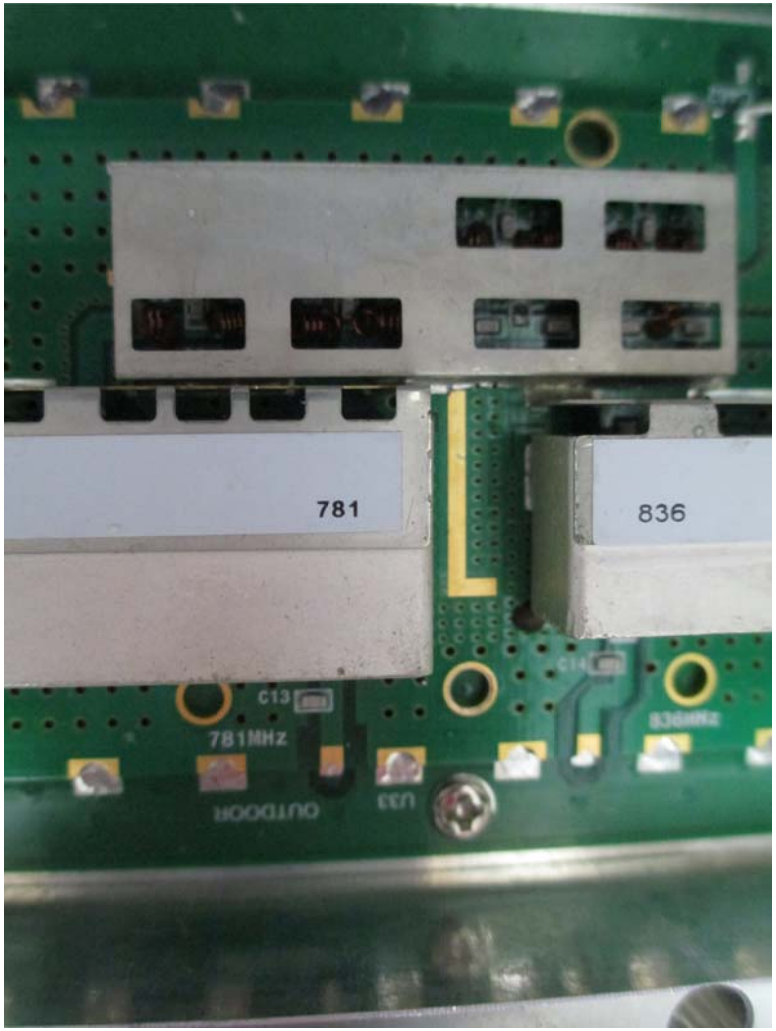

R6
Q6
R4
U2
C10
15
VEJ
100
50V
LM2678
S-ADJ
R15
R14
R10
C1
R2
C6
C7
C458
C4
D3


R10
C1
L2
220
R76
R050
R58
C419
C417
R63
R66
C421
R61
C423
C425
U5
C427
R72
R69
R73
C18
C17
C25

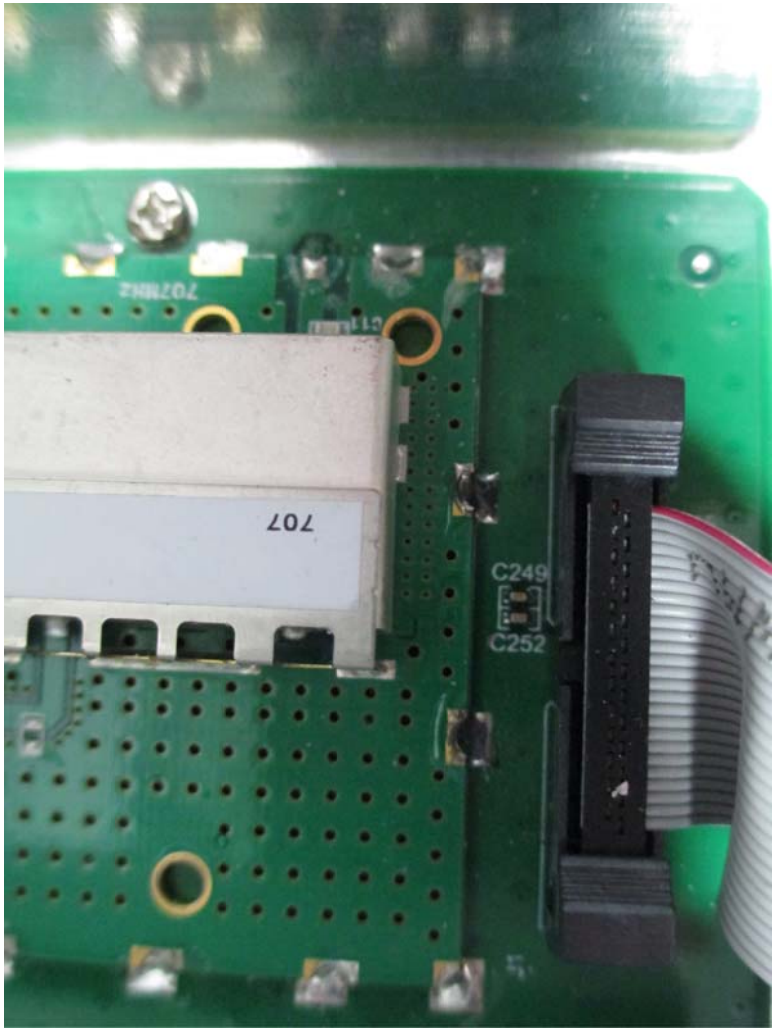
PT-1558
151123
881
-800
22

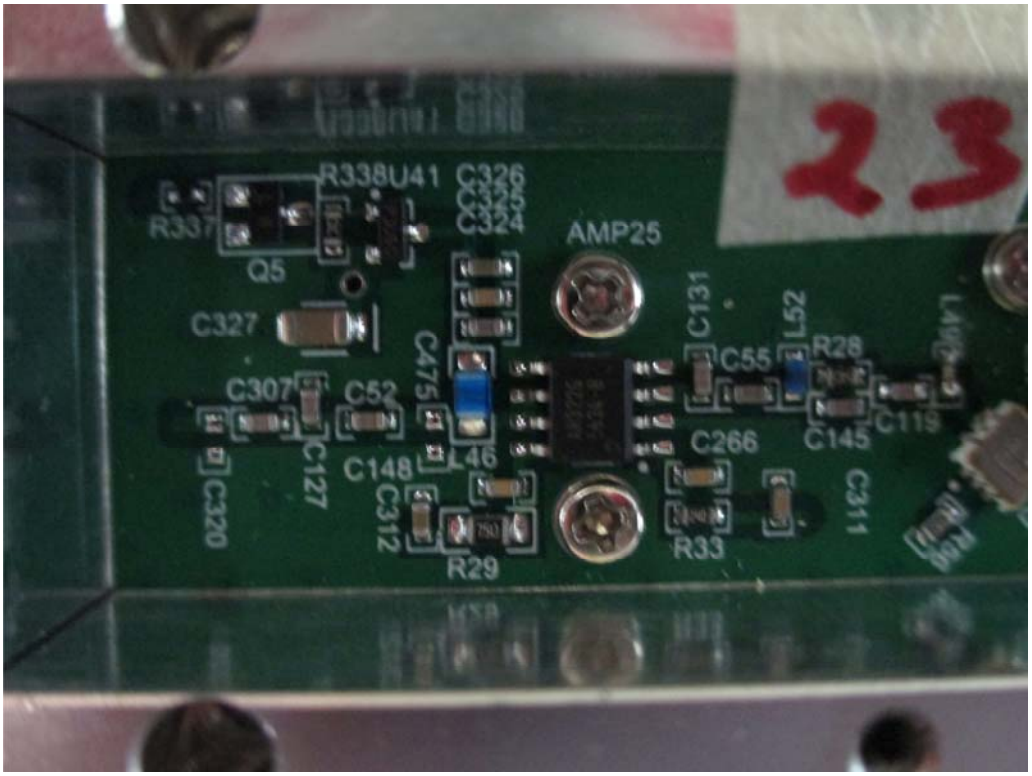
ANT
836
CM700-800
836MHz

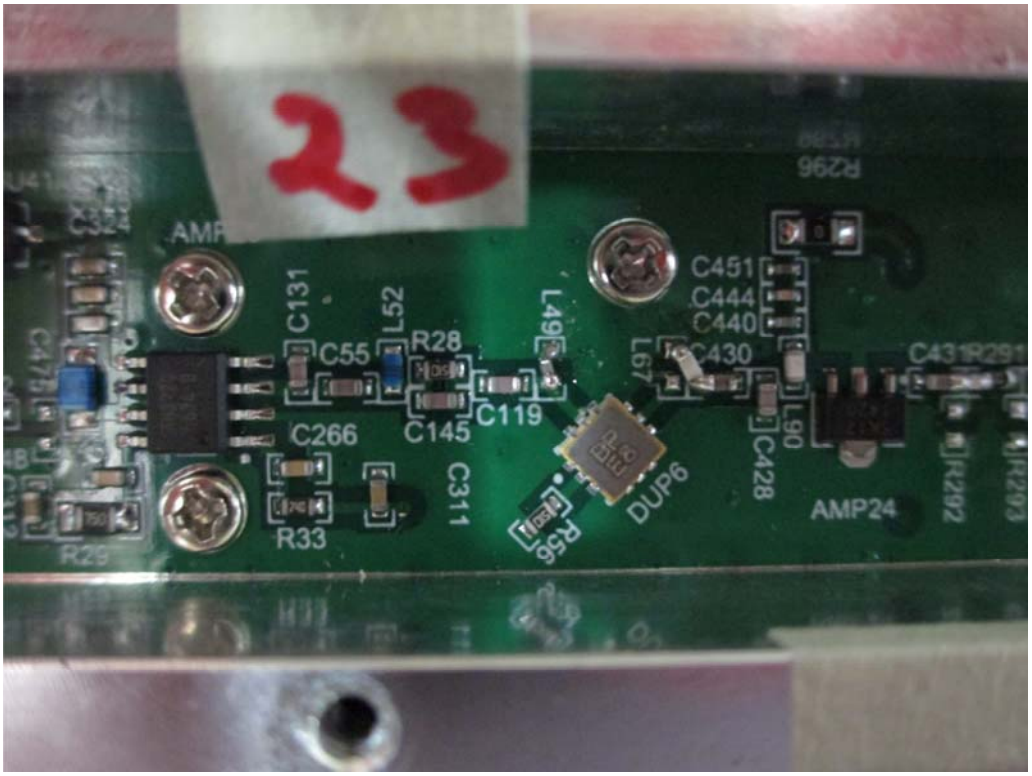

742
742
742MHz

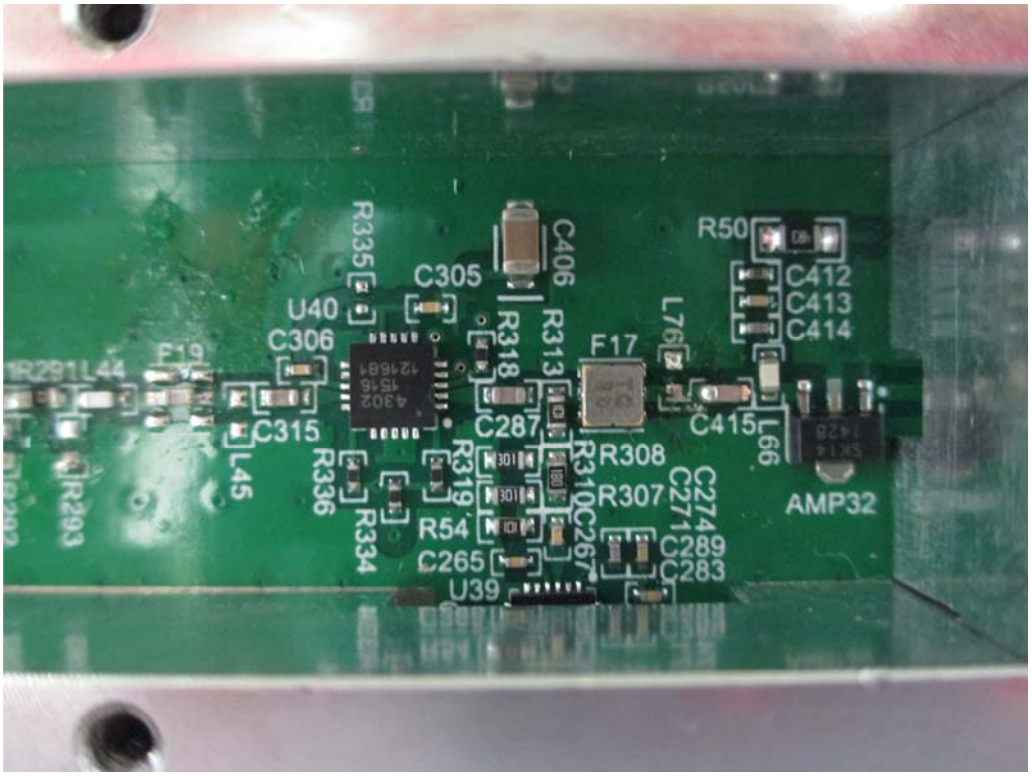

781
836
C13
781MHz
U33
OUTDOOR
C14
836MHz

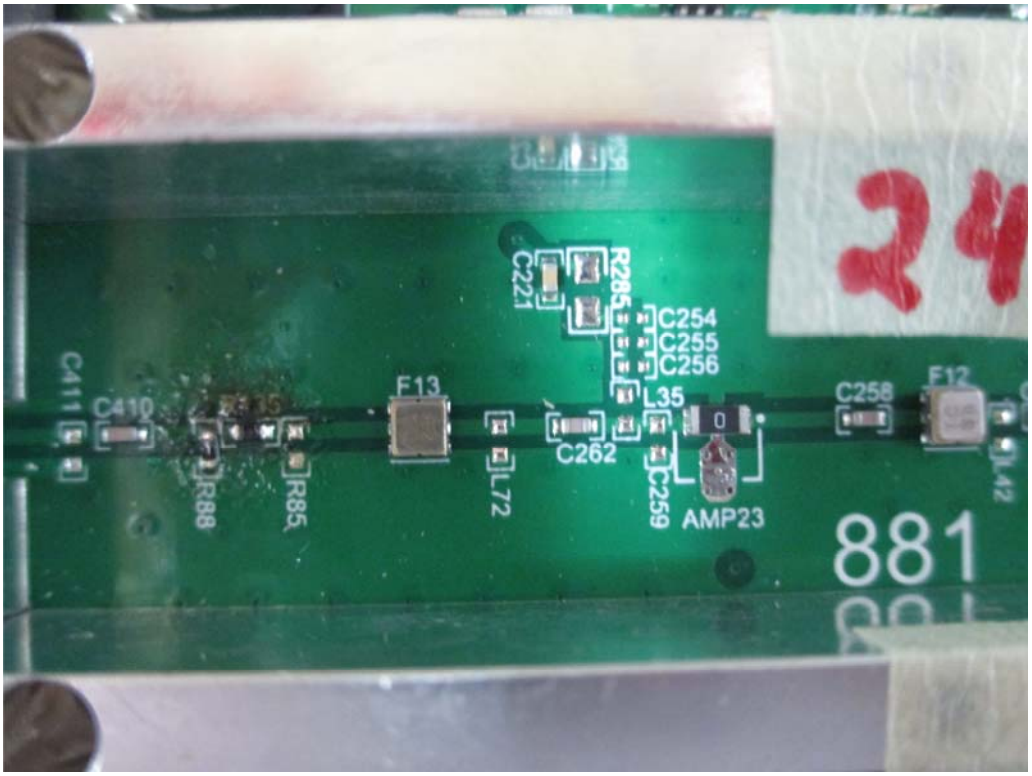
742
707MHZ
742MHZ

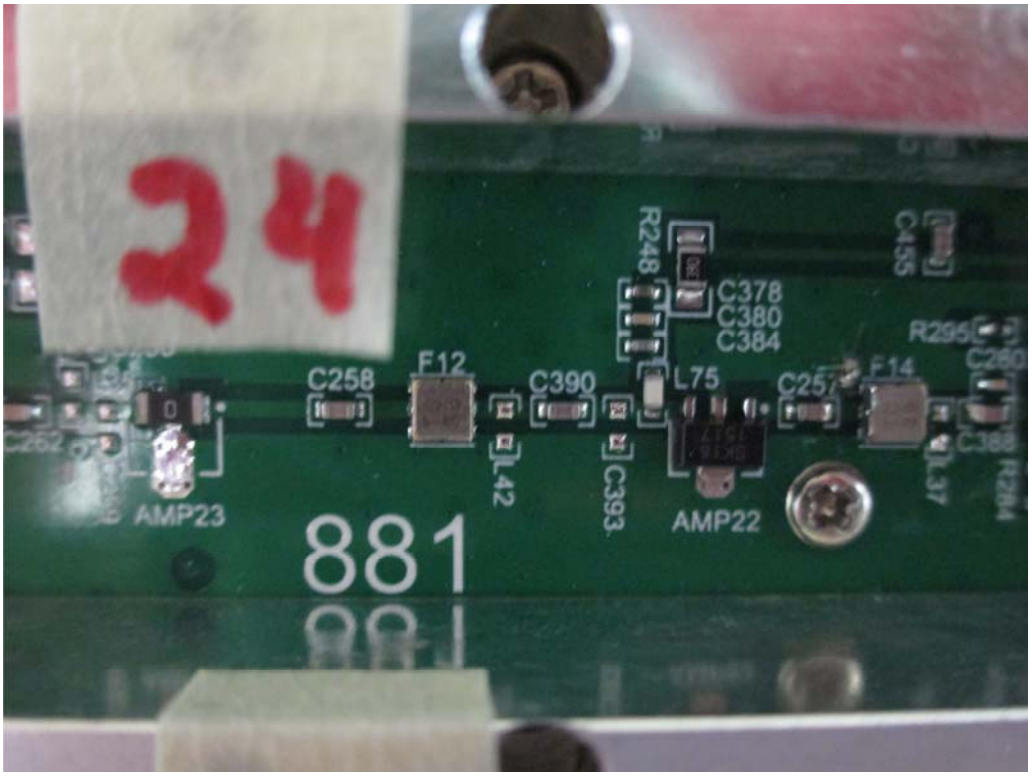

707
C249
C252
707MHZ

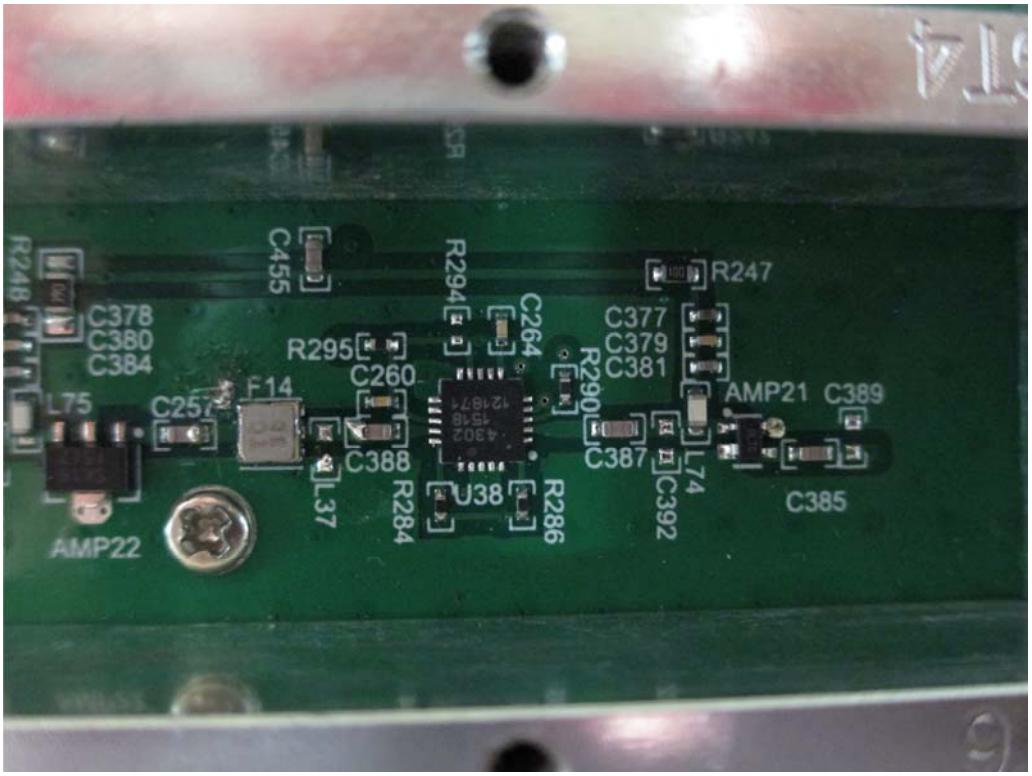

23
R338
U41
C326
C325
C324
R337
Q5
AMP25
C327
C131
L52
C55
R28
C475
C307
C52
C119
C145
C266
C148
L46
C127
C312
C320
R29
R33
C311

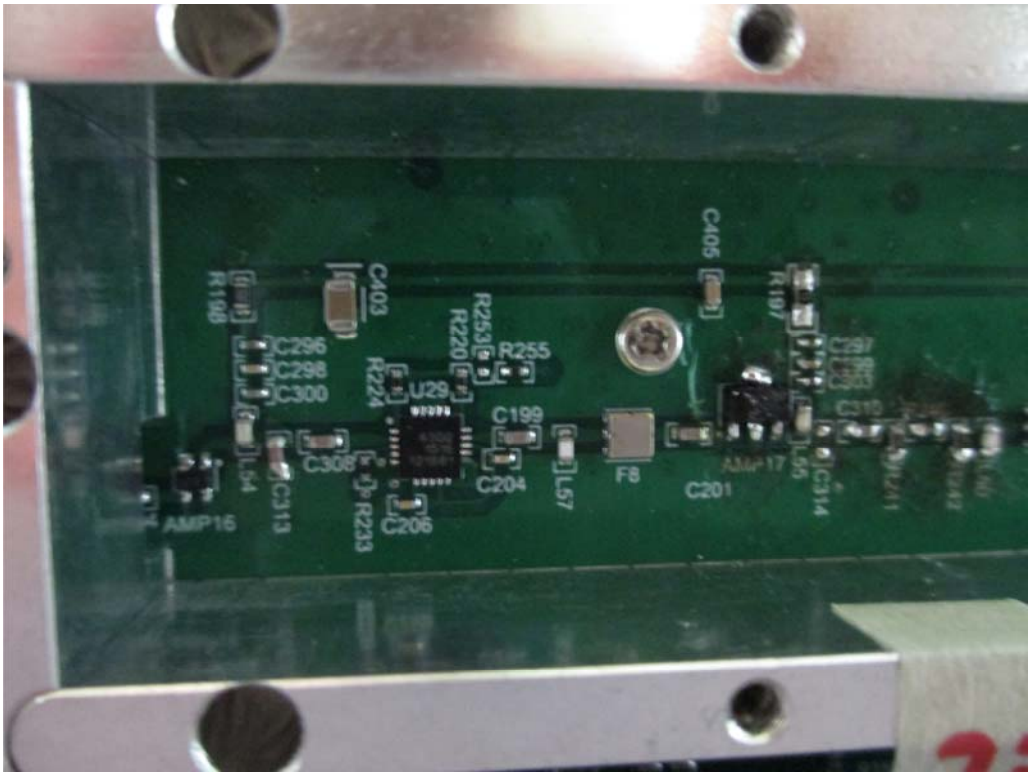

23
R296
C451
C444
C440
C131
L52
R28
C55
L49
L67
C430
C431
R291
C266
C145
C119
C90
C428
C311
DUP6
AMP24
R292
R293
R33
R56

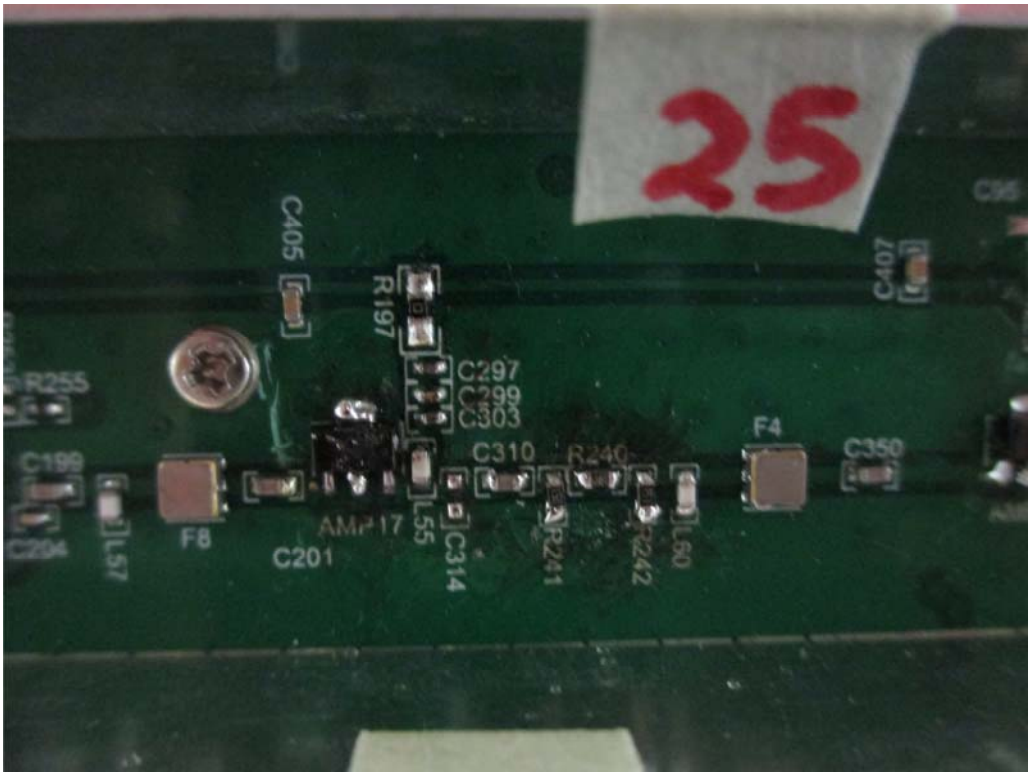

R335
C305
C406
R50
C412
C413
C414
U40
C306
R318
R313
F17
L76
F19
R291
L44
C315
C287
C415
L66
L45
R336
R319
R308
R310
R307
C274
C271
AMP32
R293
R334
R54
C267
C289
C265
C283
U39

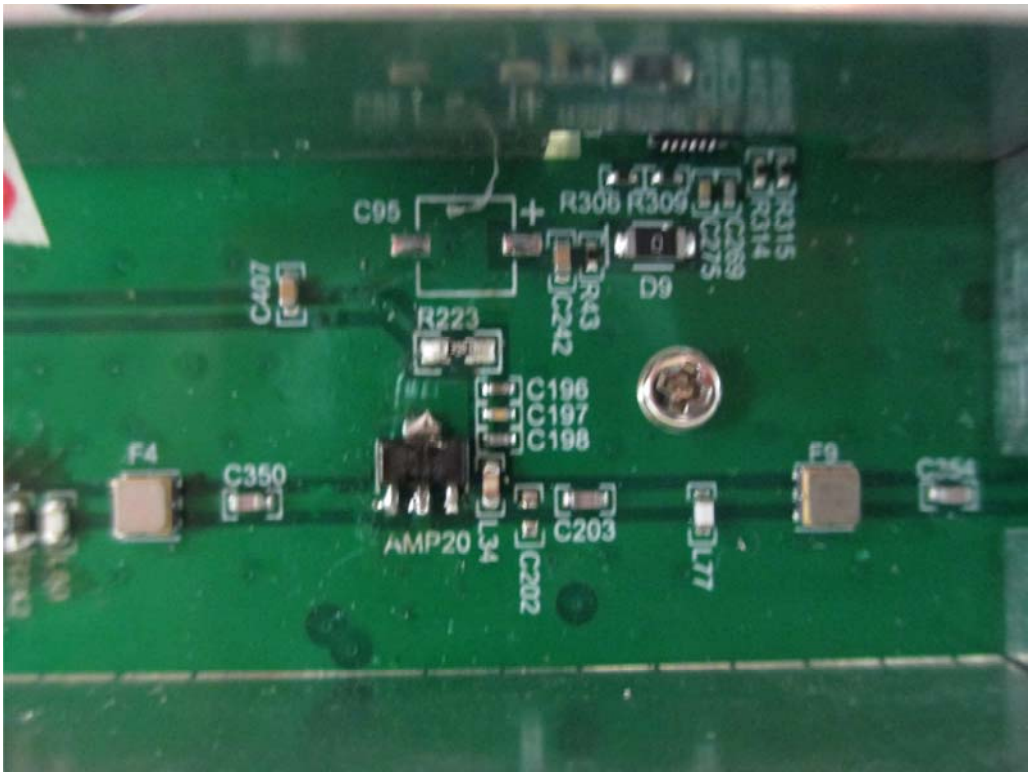

24
C221
R285
C254
C255
C256
C411
C410
F13
L35
C258
F12
C262
L72
C259
AMP23
R88
R85
881

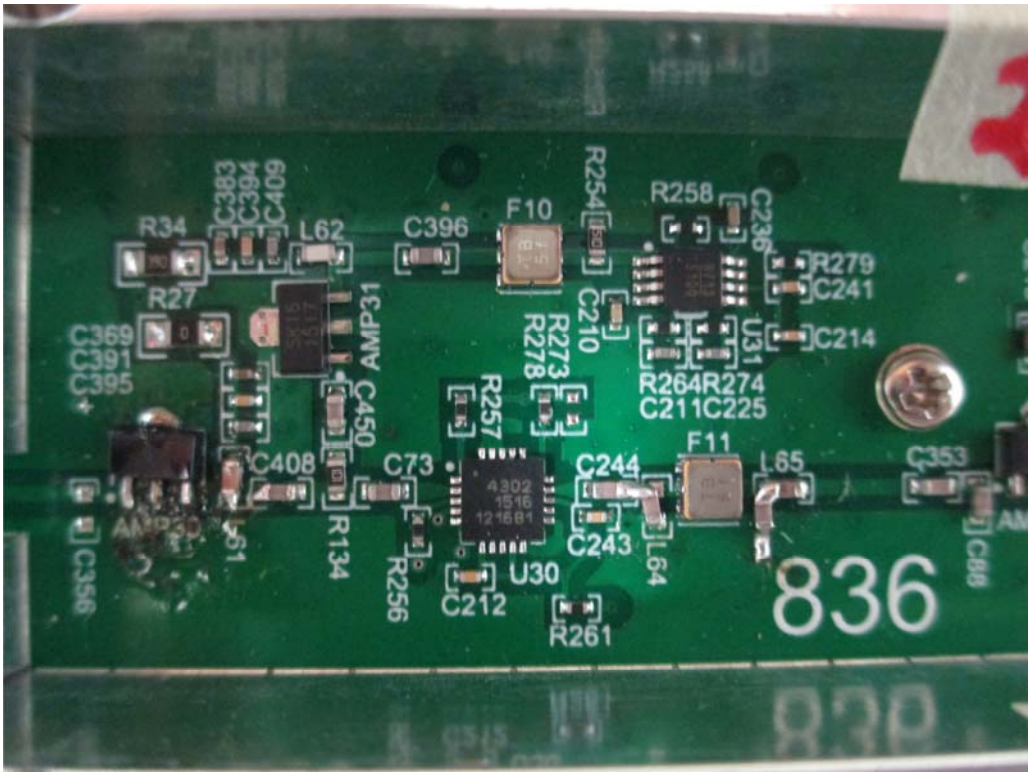

24
R248
C455
C378
C380
C384
R295
C260
C258
F12
C390
L75
C257
F14
C262
L42
C393
L37
C388
R284
AMP23
AMP22
881

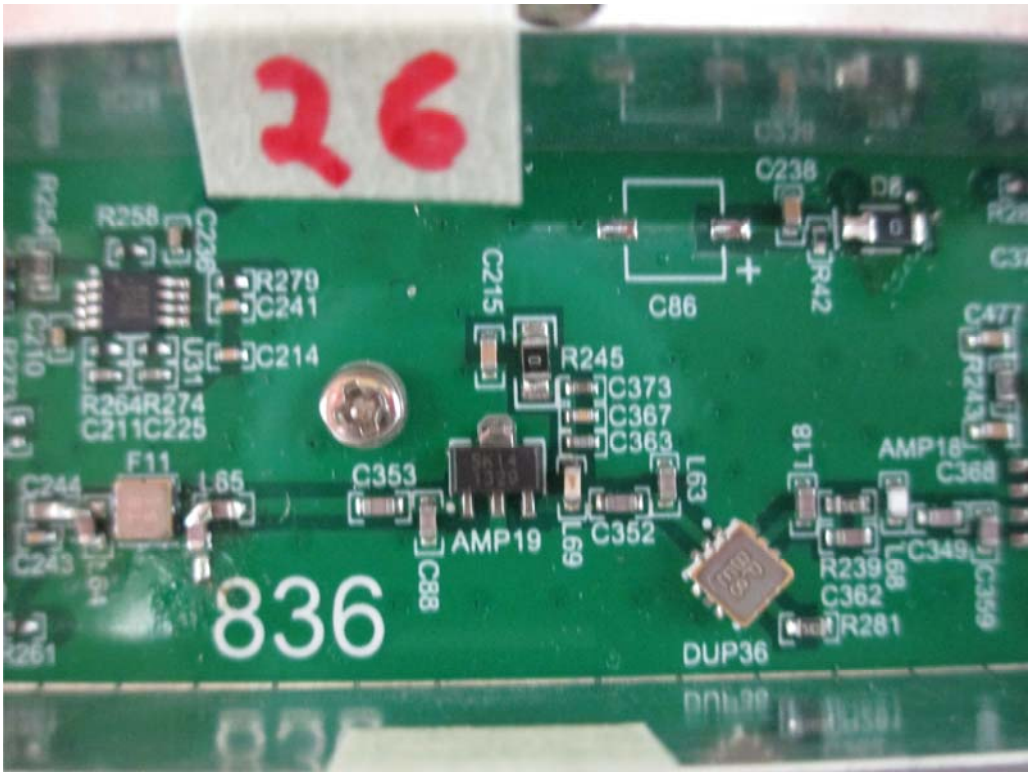

R248
C455
R294
R247
C378
C380
C384
C264
C377
C379
C381
R295
C260
R290
AMP21
C389
L75
C257
F14
C388
C387
L74
L37
R284
U38
R286
C392
C385
AMP22

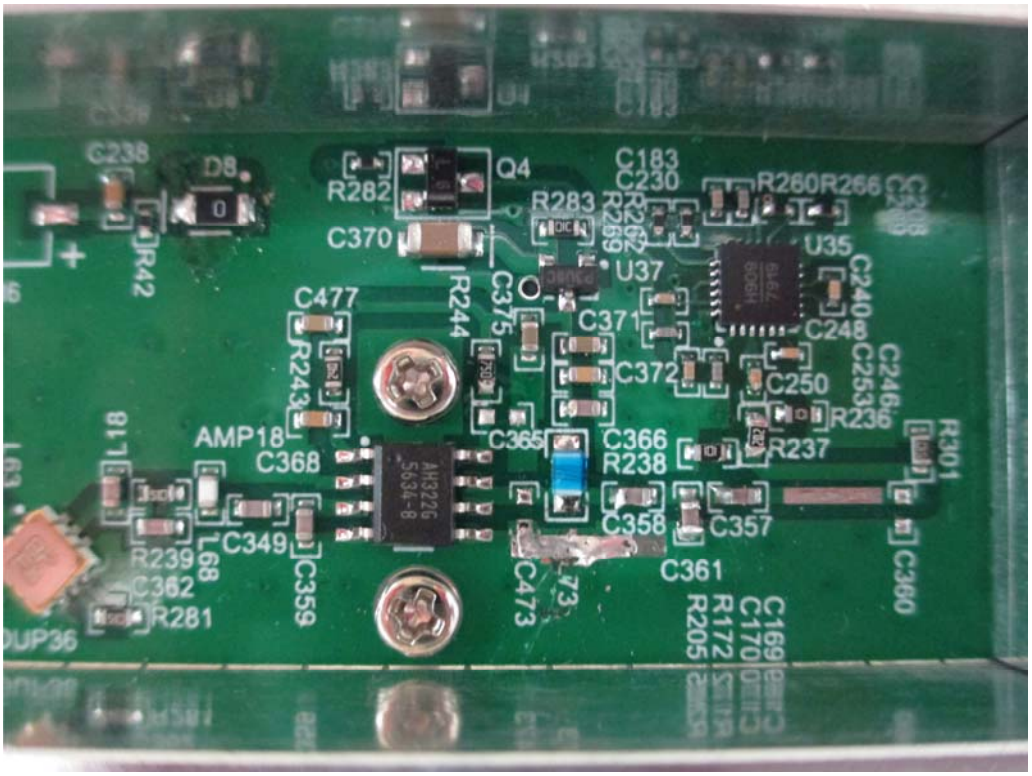

C405
R197
C403
R198
R253
R255
R220
C296
C298
C300
R224
U29
C199
C204
L57
F8
C201
AMP17
L55
C314
C308
C313
R233
C206
AMP16

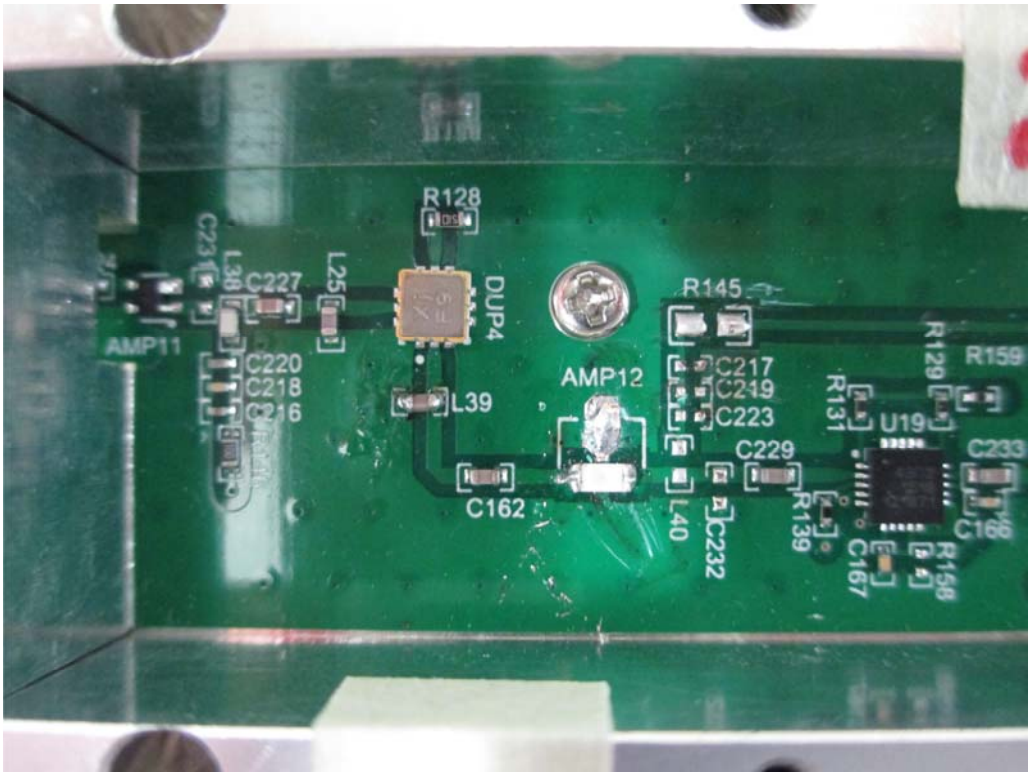

25
C405
R197
C297
C299
C303
R255
C199
C204
L57
F8
C201
AMP17
L55
C314
C310
R240
R241
R242
L60
F4
C350

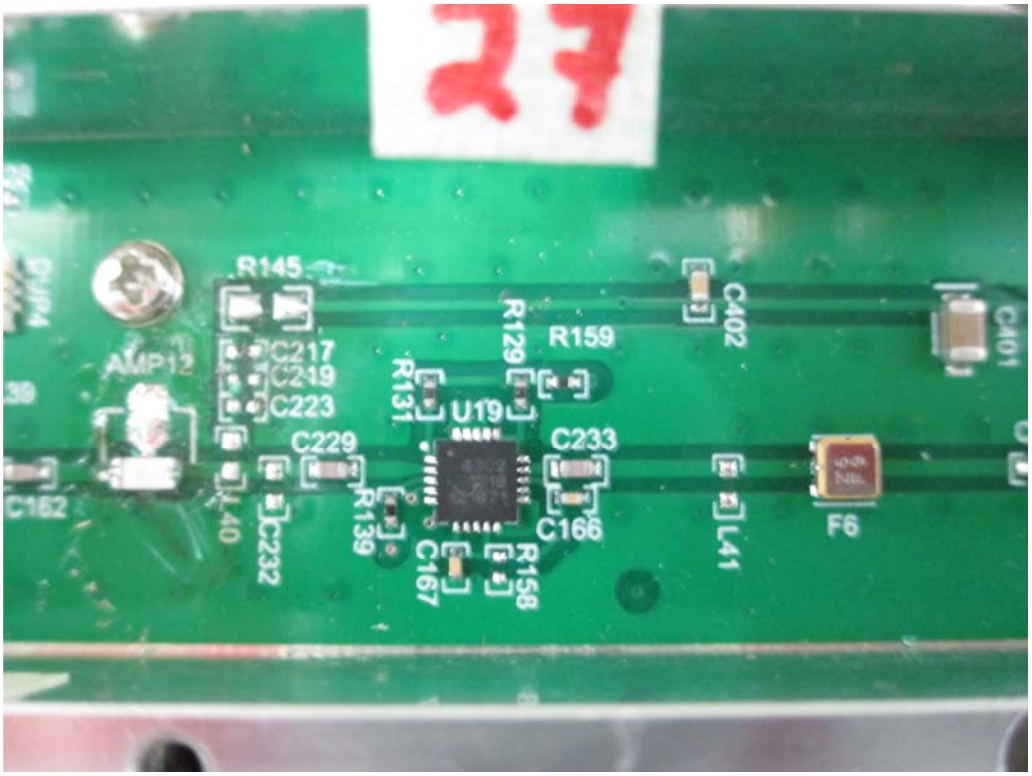

C95
R306
R309
R315
R314
C269
C275
D9
R43
C242
C407
R223
C196
C197
C198
F4
C350
AMP20
L34
C202
C203
L77
F9
C254

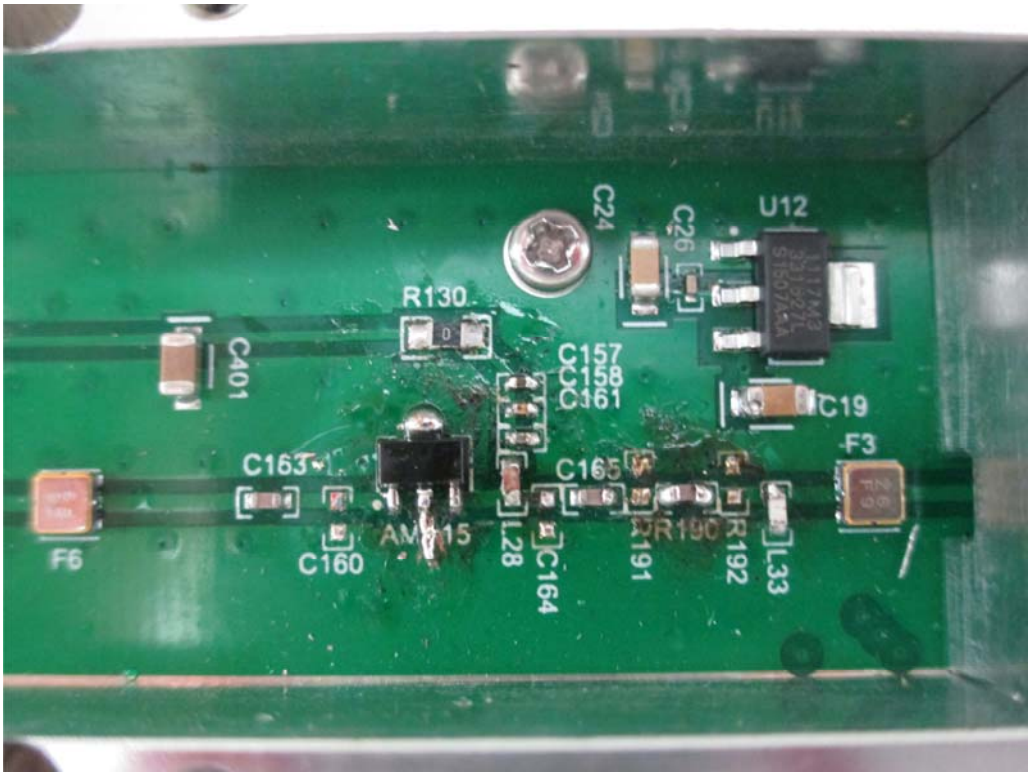

C383
C394
C409
R34
L62
C396
F10
R254
R258
C239
R279
C241
C214
R27
C369
C391
C395
AMP31
C450
C210
R273
R278
U31
R264
R274
C211
C225
R257
C408
C73
C244
F11
L65
C353
R134
R256
U30
C243
L64
C212
R261
C356
836

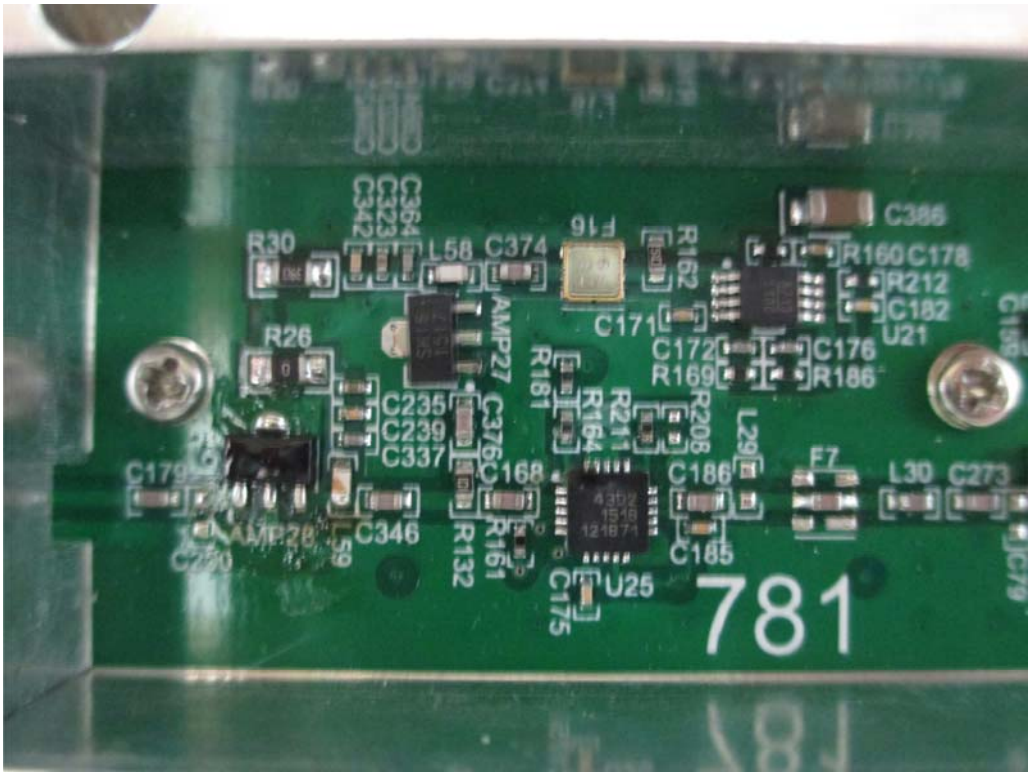

26
C238
D8
R42
C86
R258
C236
R279
C241
C214
C210
U31
R264R274
C211C225
C215
R245
C373
C367
C363
L63
C353
AMP19
C352
L69
C88
F11
L65
C244
C243
836
DUP36
R239
C362
R281
L68
C349
AMP18
C368
C477
R243
C359

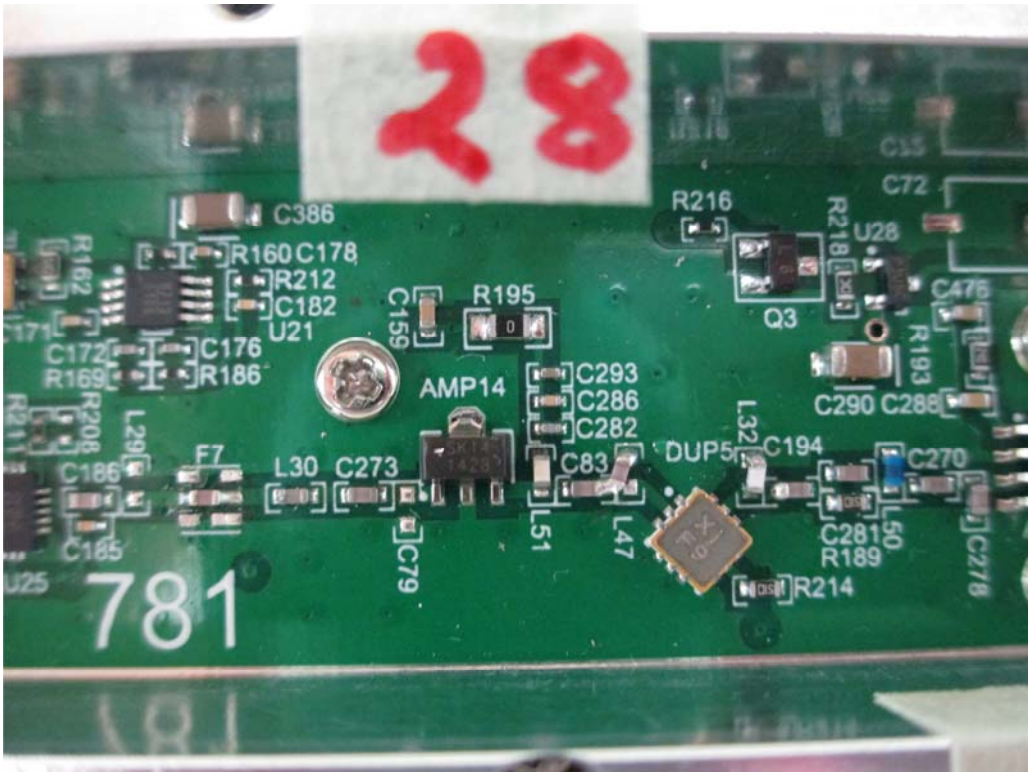

C238
D8
R42
R282
Q4
C370
R283
C183
C230
R260R266
U35
U37
C477
R243
R244
C375
C371
C372
C248
C250
C240
C253
C246
R236
R237
R301
AMP18
C368
C365
C366
R238
C358
C357
C361
C360
C349
C359
C473
L68
R239
C362
R281
DUP36
R172
R205
C169
C170

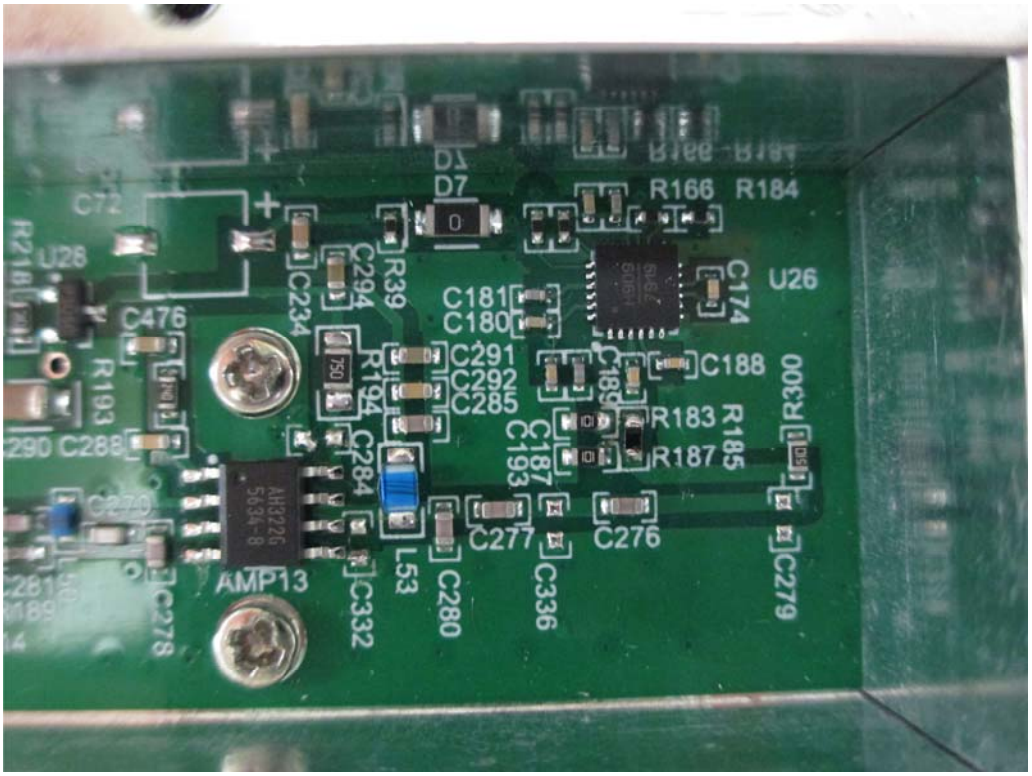

R128
C231
L36
C227
L25
DUP4
R145
AMP11
C220
C218
C216
L39
AMP12
C217
C219
C223
R129
R159
R131
U19
C229
C233
C162
L40
C232
R139
C167
R158
C166


R145
C402
C401
AMP12
C217
C219
C223
R129
R159
R131
U19
C229
C233
C162
L40
C232
R139
C167
R158
C166
L41
F6


C24
C26
U12
R130
C401
C157
C158
C161
C19
F3
C163
C165
F6
C160
AMP15
L28
C164
R190
R191
R192
L33


C364
C323
C342
R30
L58
C374
F16
R162
C386
R160
C178
R212
C182
U21
C171
C172
R169
C176
R186
R26
AMP27
R181
R164
R211
R208
L29
C235
C239
C337
C376
C168
C186
F7
L30
C273
C179
AMP28
C346
R132
R161
C185
U25
C175
781


28
C386
R160 C178
R212
C182
U21
R162
C171
C172
R169
C176
R186
R208
R211
L29
C186
C185
U25
F7
L30
C273
C79
C159
R195
AMP14
C293
C286
C282
L51
C83
L47
DUP5
L32
C194
R216
Q3
R218
U28
C72
C476
R193
C290
C288
C270
C281
R189
L50
C278
R214
781


D1
D7
R166
R184
C72
R218
U28
C476
R193
C290
C288
C270
C281
R189
C278
C234
C294
R39
C181
C180
C174
U26
C188
R300
R194
C291
C292
C285
C189
R183
R187
R185
C284
C187
C193
C277
C276
C279
L53
C280
C336
C332
AMP13
AH322G
5634-8