

**SONY**<sup>®</sup>

DIGITAL STILL CAMERA

**DSC-RX100M4**



Cyber-shot



LITHIUM ION



AVCHD Progressive



SERVICE MANUAL (LEVEL 3)

1st Edition

## **⚠ 警告**

このマニュアルは、サービス専用です。  
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。  
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

## **⚠ WARNING**

This manual is intended for qualified service personnel only.  
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

## **⚠ WARNUNG**

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.  
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

## **⚠ AVERTISSEMENT**

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

### 注意

指定以外の電池に交換すると、破裂する危険があります。  
必ず指定の電池に交換してください。  
使用済みの電池は、国または地域の法令に従って  
処理してください。

### CAUTION

Danger of explosion if battery is incorrectly replaced.  
Replace only with the same or equivalent type recommended by the manufacturer.  
When you dispose of the battery, you must obey the law in the relative area or country.

### ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.  
Lorsque vous mettez la batterie au rebut, vous devez respecter la législation en vigueur dans le pays ou la région où vous vous trouvez.

### VORSICHT

Explosionsgefahr bei Verwendung falscher Batterien. Batterien nur durch den vom Hersteller empfohlenen oder einen gleichwertigen Typ ersetzen.  
Wenn Sie die Batterie entsorgen, müssen Sie die Gesetze der jeweiligen Region und des jeweiligen Landes befolgen.

#### Note:

Be sure to keep your PC used for service and checking of this unit always updated with the latest version of your anti-virus software. In case a virus affected unit was found during service, contact your Service Headquarters.

### FÖRSIKTIGHET!

Fara för explosion vid felaktigt placerat batteri.  
Byt endast mot samma eller likvärdig typ av batteri, enligt tillverkarens rekommendationer.  
När du kasserar batteriet ska du följa rådande lagar för regionen eller landet.

### PAS PÅ

Fare for eksplosion, hvis batteriet ikke udskiftes korrekt.  
Udskift kun med et batteri af samme eller tilsvarende type, som er anbefalet af fabrikanten.  
Når du bortskaffer batteriet, skal du følge lovgivningen i det pågældende område eller land.

### HUOMIO

Räjähdyksvaara, jos akku vaihdetaan virheellisesti. Vaihda vain samanlaisen tai vastaavatyypiseen, valmistajan suosittelemaan akkuun.  
Noudata akun hävittämisessä oman maasi tai alueesi lakeja.

### FORSIKTIG

Eksplosjonsfare hvis feil type batteri settes i.  
Bytt ut kun med samme type eller tilsvarende anbefalt av produsenten.  
Kasser batteriet i henhold til gjeldende avfallsregler.

### 注意

如果更换的电池不正确，就会有爆炸的危险。  
只更换同一类型或制造商推荐的电池型号。  
处理电池时，必须遵守相关地区或国家的法律。

#### 注意：

修理時に使用するパソコンは、ウィルス検出ソフトが常にアップデートを行っているパソコンを使用してください。もし、修理を行うセット、もしくはパソコンがウィルスに感染している事が判明した場合は、ソニーグループ内は社内技術相談窓口、特約店様は特約店様専用電話窓口（修理窓口）にご相談ください。

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
  - Set the soldering iron tip temperature to 350 °C approximately.
  - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
  - Be careful not to apply force on the conductor when soldering or unsoldering.

### UNLEADED SOLDER

This unit uses unleaded solder.

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.

**(Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size.)





### LEAD FREE MARK


Be careful to the following points to solder or unsolder.

- Set the soldering iron tip temperature to 350 °C approximately. If cannot control temperature, solder/unsolder at high temperature for a short time.  
**Caution:** The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!  
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Be sure to control soldering iron tips used for unleaded solder and those for leaded solder so they are managed separately. Mixing unleaded solder and leaded solder will cause detachment phenomenon.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

## サービス、点検時には次のことにご注意ください。

1. 注意事項をお守りください。  
サービスのとき特に注意を要する個所については、キャビネット、シャーシ、部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守り下さい。
2. 指定部品のご使用を  
セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は、使用されていたものと同じ特性の部品を使用して下さい。特に回路図、部品表に△印で指定されている安全上重要な部品は必ず指定のものをご使用下さい。
3. 部品の取付けや配線の引きまわしはもとどおりに安全上、チューブやテープなどの絶縁材料を使用したり、プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランプによって発熱部品や高圧部品に接近しないよう配慮されていますので、これらは必ずもとどおりにして下さい。
4. サービス後は安全点検を  
サービスのために取外したネジ、部品、配線がもとどおりになっているか、またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し、安全性が確保されていることを確認して下さい。
5. チップ部品交換時の注意
  - ・ 取外した部品は再使用しないで下さい。
  - ・ タンタルコンデンサのマイナス側は熱に弱いため交換時は注意して下さい。
6. フレキシブルプリント基板の取扱いについて
  - ・ 半田こてのこて先温度は約350℃に設定して下さい。
  - ・ 同一パターンに何度もコテ先を当てないで下さい。(3回以内)
  - ・ パターンに力が加わらないよう注意して下さい。

### 無鉛半田について

本機には無鉛半田が使用されています。  
無鉛半田を使用している基板には、無鉛 (Lead Free) を意味するレッドフリーマークがプリントされています。  
(注意：基板サイズによっては、無鉛半田を使用していてもレッドフリーマークがプリントされていないものがあります)



：レッドフリーマーク

無鉛半田は、下記の点に注意して使用してください。

- ・ 半田こてのこて先温度は約350℃に設定してください。  
温度調節が無理な場合は、高温短時間で作業を行ってください。  
**注意：**半田こてを長く当てすぎると、基板のパターン (銅箔) がはがれてしまうことがありますので、注意してください。また、従来の半田よりも粘性が強いため、IC端子などが半田ブリッジしないように注意してください。
- ・ 半田こてのこて先は、必ず無鉛半田用と有鉛半田用に分けて管理してください。  
無鉛半田と有鉛半田が混在すると剥離現象が発生してしまいます。



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## Revision History



# Section 1

## Repair Parts List

### 1-1. Note on Repair Parts

#### (ENGLISH)

##### NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- ns: Not supplied part.
- CAPACITORS:
  - uF:  $\mu$ F
- COILS
  - uH:  $\mu$ H
- RESISTORS
  - All resistors are in ohms.
  - METAL: metal-film resistor
  - METAL OXIDE: Metal Oxide-film resistor
  - F: nonflammable
- SEMICONDUCTORS
  - In each case, u:  $\mu$ , for example:
    - uA... :  $\mu$ A..., uPA... :  $\mu$ PA..., uPB... :  $\mu$ PB...,
    - uPC... :  $\mu$ PC..., uPD... :  $\mu$ PD...

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

#### CAUTION

Danger of explosion if battery is incorrectly replaced.  
Replace only with the same or equivalent type.  
Dispose of used batteries according to the instructions.

#### 注意

如果电池更换不当会有爆炸危险。  
只能用同样类型或等效类型的电池来更换。  
务必按照说明处置用完的电池。

- Color Indication of Appearance Parts  
Example:  
(SILVER) : Cabinet's Color  
(Silver) : Parts Color

#### (JAPANESE)

##### 【使用上の注意】

- -XX, -Xは標準化部品のため、セットに付いている部品と異なる場合があります。
- \*印の部品は常備在庫していません。
- ここに記載されている部品は、補修用部品であるため、回路図及びセットに付いている部品と異なる場合があります。
- ns: 供給対象外部品。
- コンデンサの単位でuFは $\mu$ Fを示します。
- 抵抗の単位 $\Omega$ は省略してあります。
  - 金 被 : 金属被膜抵抗。
  - サンキン : 酸化金属被膜抵抗。
- インダクタの単位でuHは $\mu$ Hを示します。
- 半導体の名称でuA..., uPA..., uPB..., uPC..., uPD...等はそれぞれ $\mu$ A...,  $\mu$ PA...,  $\mu$ PB...,  $\mu$ PC...,  $\mu$ PD...を示します。

$\triangle$ 印の部品、または $\triangle$ 印付の点線で囲まれた部品は、安全性を維持するために、重要な部品です。  
従って交換時は、必ず指定の部品を使用してください。

#### 注意

電池の交換は、正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。  
使用済み電池は、取扱指示に従って処分してください。

- 外装部品色表示  
例：  
(SILVER) : セットの色を表す。  
(Silver) : 部品の色を表す。

## 1-2. Electrical Parts List

### BT-2014 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	1-894-197-11	BT-2014 FLEXIBLE BOARD

### CD-1006A FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	A-2081-758-A	INDIVIDUAL, FILTER BLOCK ASSY
	Not supplied	CD-1006A FLEXIBLE BOARD, COMPLETE

### EV-1012 BOARD

Ref. No. or Q'ty	Part No.	SP Description
	A-2076-380-A	EV-1012 BOARD, COMPLETE
C2101	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V
C8060	1-118-039-11	CERAMIC CHIP 1uF 10% 25V
C8062	1-118-039-11	CERAMIC CHIP 1uF 10% 25V
C8063	1-118-039-11	CERAMIC CHIP 1uF 10% 25V
C8064	1-118-039-11	CERAMIC CHIP 1uF 10% 25V
C8065	1-118-039-11	CERAMIC CHIP 1uF 10% 25V
C8066	1-118-039-11	CERAMIC CHIP 1uF 10% 25V
C8067	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
CN1001	1-843-209-11	CONNECTOR, FFC/FPC (ZIF) 39P
CN8060	1-842-176-51 *	CONNECTOR, FPC (ZIF) 61P
IC2101	6-712-051-01 *	IC SN65LVDS302ZQER
R1103	1-240-726-91	METAL CHIP 470K 5% 1/20W
S1101	1-798-027-21	SWITCH, DETECTION

### FP-2234 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	A-2059-643-B	SERVICE, ST BLOCK ASSY
	Not supplied	FP-2234 FLEXIBLE BOARD

### FP-2305 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	1-894-335-11	FP-2305 FLEXIBLE BOARD

### FP-2306 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	1-894-345-11	FP-2306 FLEXIBLE BOARD

### FP-2311 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	1-894-564-11	FP-2311 FLEXIBLE BOARD

### FP-2351 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	1-980-065-11	FP-2351 FLEXIBLE BOARD

### FPC-2010 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	1-893-251-11	FPC-2010 FLEXIBLE BOARD

### LC-1021 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	A-2045-285-A	LC-1021 FLEXIBLE BOARD, COMPLETE
C0001	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C0002	1-118-039-11	CERAMIC CHIP 1uF 10% 25V
C0013	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C0015	1-118-041-11	CERAMIC CHIP 4.7uF 10% 10V
C0016	1-118-041-11	CERAMIC CHIP 4.7uF 10% 10V
C0020	1-116-729-11	CERAMIC CHIP 2.2uF 20% 10V
C0021	1-116-729-11	CERAMIC CHIP 2.2uF 20% 10V
C023	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C024	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C025	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C026	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C027	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C028	1-118-040-11	CERAMIC CHIP 2.2uF 10% 16V
C035	1-118-040-11	CERAMIC CHIP 2.2uF 10% 16V
C036	1-118-040-11	CERAMIC CHIP 2.2uF 10% 16V
C037	1-118-040-11	CERAMIC CHIP 2.2uF 10% 16V
C038	1-118-040-11	CERAMIC CHIP 2.2uF 10% 16V
C039	1-118-040-11	CERAMIC CHIP 2.2uF 10% 16V
C041	1-118-041-11	CERAMIC CHIP 4.7uF 10% 10V
C042	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C047	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
CN0001	1-842-604-11	CONNECTOR, FPC (ZIF) 61PIN
D001	6-502-934-01	DIODE DB2S31100K8
D002	6-502-934-01	DIODE DB2S31100K8
R0001	1-218-990-81	SHORT CHIP 0

### MS-1028 BOARD

Ref. No. or Q'ty	Part No.	SP Description
	A-2081-788-A	MS-1028 BOARD, COMPLETE (SERVICE)
C0001	Not supplied	CERAMIC CHIP 47uF 20% 6.3V

**MS-1028 BOARD**

Ref. No. or Q'ty	Part No.	SP Description
C0002	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C0003	Not supplied	CERAMIC CHIP 47uF 20% 6.3V
C0004	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1001	Not supplied	CERAMIC CHIP 0.22uF 20% 6.3V
C1002	Not supplied	CERAMIC CHIP 0.22uF 20% 6.3V
C2001	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C2002	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C2003	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C2004	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C6800	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V
C6801	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V
C6802	1-165-897-91	TANTAL. CHIP 22uF 20% 10V
C6803	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C6804	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C6805	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C6806	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C6807	Not supplied	CERAMIC CHIP 0.0022uF 10% 6.3V
C6808	Not supplied	CERAMIC CHIP 0.0022uF 10% 6.3V
C6809	Not supplied	CERAMIC CHIP 0.047uF 10% 6.3V
C6810	Not supplied	CERAMIC CHIP 0.047uF 10% 6.3V
C6811	Not supplied	CERAMIC CHIP 0.047uF 10% 6.3V
C6812	1-118-029-11	CERAMIC CHIP 0.0022uF 10% 16V
C6813	1-118-029-11	CERAMIC CHIP 0.0022uF 10% 16V
C6814	Not supplied	CERAMIC CHIP 0.047uF 10% 6.3V
C6815	Not supplied	CERAMIC CHIP 0.01uF 10% 16V
C6816	Not supplied	CERAMIC CHIP 0.01uF 10% 16V
C6817	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C6818	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V
C6819	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C6820	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V
C6821	Not supplied	CERAMIC CHIP 0.001uF 10% 25V
C6822	Not supplied	CERAMIC CHIP 0.001uF 10% 25V
C6823	Not supplied	CERAMIC CHIP 0.0047uF 10% 6.3V
C7301	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C7302	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C7303	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C7304	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C7305	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C7701	1-118-033-11 *	CERAMIC CHIP 0.047uF 10% 10V
C7702	1-118-033-11 *	CERAMIC CHIP 0.047uF 10% 10V
C7703	1-118-029-11	CERAMIC CHIP 0.0022uF 10% 16V
C7704	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C7705	1-118-029-11	CERAMIC CHIP 0.0022uF 10% 16V
C7706	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
CN0002	1-843-088-12	CARD CONNECTOR
CN0003	1-843-209-11	CONNECTOR, FFC/FPC (ZIF) 39P
CN0004	1-843-209-11	CONNECTOR, FFC/FPC (ZIF) 39P
CN6800	1-843-209-11	CONNECTOR, FFC/FPC (ZIF) 39P
CP7301	Not supplied	WLAN MODULE
D0002	6-502-193-01	DIODE SML-D12V8WT86SN
ET3001	1-780-434-11	TERMINAL, GROUND (ON BOARD CON
IC6800	Not supplied	IC LV8417CS-TE-L-H
IC6801	Not supplied	IC MM3411A28RRE
IC6802	Not supplied	IC R2J30503LG#W2
IC6803	6-712-222-01 *	IC BD6369GUL-E2
L3001	1-481-837-11 *	INDUCTOR 5.6uH
L3002	Not supplied	INDUCTOR 8.2uH
Q6800	6-553-023-01 *	TRANSISTOR FK3303010L
Q6801	6-552-527-01 *	TRANSISTOR DMA964060R
R0002	1-240-679-91	METAL CHIP 47 5% 1/20W
R0003	1-240-681-91	METAL CHIP 68 5% 1/20W
R0004	1-240-681-91	METAL CHIP 68 5% 1/20W

**MS-1028 BOARD**

Ref. No. or Q'ty	Part No.	SP Description
R005	1-240-681-91	METAL CHIP 68 5% 1/20W
R006	1-240-681-91	METAL CHIP 68 5% 1/20W
R0007	1-240-678-91	METAL CHIP 33 5% 1/20W
R0008	1-240-678-91	METAL CHIP 33 5% 1/20W
R0009	1-240-682-91	METAL CHIP 82 5% 1/20W
R0010	1-240-682-91	METAL CHIP 82 5% 1/20W
R0011	1-240-682-91	METAL CHIP 82 5% 1/20W
R0012	1-240-682-91	METAL CHIP 82 5% 1/20W
R0013	1-240-682-91	METAL CHIP 82 5% 1/20W
R0014	1-240-682-91	METAL CHIP 82 5% 1/20W
R0015	1-240-682-91	METAL CHIP 82 5% 1/20W
R0016	1-240-682-91	METAL CHIP 82 5% 1/20W
R0030	1-240-683-91	METAL CHIP 100 5% 1/20W
R0031	1-240-683-91	METAL CHIP 100 5% 1/20W
R0032	1-240-683-91	METAL CHIP 100 5% 1/20W
R0033	1-240-695-91	METAL CHIP 1K 5% 1/20W
R1001	1-240-695-91	METAL CHIP 1K 5% 1/20W
R1002	1-240-687-91	METAL CHIP 220 5% 1/20W
R1003	1-240-695-91	METAL CHIP 1K 5% 1/20W
R2001	1-240-695-91	METAL CHIP 1K 5% 1/20W
R2002	1-240-695-91	METAL CHIP 1K 5% 1/20W
R3005	1-240-683-91	METAL CHIP 100 5% 1/20W
R3006	1-240-683-91	METAL CHIP 100 5% 1/20W
R3007	1-240-683-91	METAL CHIP 100 5% 1/20W
R3008	1-240-683-91	METAL CHIP 100 5% 1/20W
R3009	1-240-683-91	METAL CHIP 100 5% 1/20W
R3010	1-240-683-91	METAL CHIP 100 5% 1/20W
R6800	1-250-521-11	METAL CHIP 12K 1% 1/16W
R6801	1-250-485-11	METAL CHIP 390 1% 1/16W
R6802	1-250-475-11	METAL CHIP 150 1% 1/16W
R6803	1-248-319-11 *	RES-CHIP 0.47 1% 1/4W
R6804	1-208-711-11	METAL CHIP 15K 0.5% 1/16W
R6805	Not supplied	METAL CHIP 39K 1% 1/20W
R6806	Not supplied	METAL CHIP 39K 1% 1/20W
R6807	Not supplied	METAL CHIP 2.7K 1% 1/20W
R6808	Not supplied	METAL CHIP 2.7K 1% 1/20W
R6809	Not supplied	METAL CHIP 6.8K 1% 1/20W
R6810	Not supplied	METAL CHIP 6.8K 1% 1/20W
R6811	1-240-714-91	METAL CHIP 47K 5% 1/20W
R6812	1-240-701-91	METAL CHIP 3.3K 5% 1/20W
R6813	1-240-701-91	METAL CHIP 3.3K 5% 1/20W
R6814	1-240-687-91	METAL CHIP 220 5% 1/20W
R6815	1-240-687-91	METAL CHIP 220 5% 1/20W
R6816	1-240-689-91	METAL CHIP 330 5% 1/20W
R6817	1-218-965-11	METAL CHIP 10K 5% 1/16W
SE7701	8-826-002-52	GYRO SENSOR GSU-X370D/N-S (1) (PITCH/YAW)

**RL-1028 FLEXIBLE BOARD**

Ref. No. or Q'ty	Part No.	SP Description
	A-2045-283-A	RL-1028 FLEXIBLE BOARD, COMPLETE
MIC001	Not supplied	MICROPHONE
MIC002	Not supplied	MICROPHONE
PH0001	Not supplied	PHOTO REFLECTOR PR-40-T
PH0002	Not supplied	PHOTO REFLECTOR PR-40-T
R0001	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R0002	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
SE0001	Not supplied	MAGNETIC SENSOR

## RL-1038 BOARD

Ref. No. or Q'ty	Part No.	SP Description
	A-2076-381-A	RL-1038 BOARD, COMPLETE
C0003	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C0009	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C0010	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C0011	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C0012	1-118-041-11	CERAMIC CHIP 4.7uF 10% 10V
C2001	1-118-480-11	CERAMIC CHIP 4.7uF 10% 6.3V
C7711	Not supplied	CERAMIC CHIP 0.33uF 10% 6.3V
C7712	1-116-713-11	CERAMIC CHIP 22uF 20% 10V
C7713	1-118-033-11 *	CERAMIC CHIP 0.047uF 10% 10V
C7714	1-118-033-11 *	CERAMIC CHIP 0.047uF 10% 10V
C7715	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C7717	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C7718	1-118-026-11	CERAMIC CHIP 470PF 10% 25V
C7719	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C7731	1-118-269-11	CERAMIC CHIP 4.7uF 20% 6.3V
C7732	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C7733	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
CN0001	1-843-209-11	CONNECTOR, FFC/FPC (ZIF) 39P
CN0002	1-820-031-71 *	CONNECTOR, FPC (LIF) 14P
CN0003	1-816-655-61	CONNECTOR, FFC/FPC 8P
D0001	6-503-448-01	DIODE DIODE SML-L14DTAFS
D0002	6-502-294-01 *	DIODE SML-D13M8WT86S
D0003	6-502-196-01	DIODE SML-D12Y8WT86SP
IC0001	6-719-198-01	IC MM3411A33URE
IC7711	6-719-814-01 *	IC NJM3232MG2 (TE2)
Q0001	6-552-354-01 *	TRANSISTOR DRC3144E0L
Q0002	6-552-354-01 *	TRANSISTOR DRC3144E0L
R0001	1-218-945-11	METAL CHIP 220 5% 1/16W
R0002	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R0003	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R0004	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R0005	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R0007	1-240-582-11	METAL CHIP 6.8 5% 1/16W
R7711	Not supplied	METAL CHIP 15K 1% 1/20W
R7712	Not supplied	METAL CHIP 150K 1% 1/20W
R7713	Not supplied	METAL CHIP 10K 1% 1/20W
R7714	Not supplied	METAL CHIP 22K 1% 1/20W
R7715	Not supplied	METAL CHIP 22K 1% 1/20W
RB0001	1-234-376-11	RES, NETWORK 2.2K (1005X4)
RB0002	1-234-376-11	RES, NETWORK 2.2K (1005X4)
S0001	1-786-914-31	SWITCH, TACTILE
S0002	1-798-136-21 *	TACTILE SWITCH
S0003	1-798-221-11 *	DETECTOR SWITCH
S0004	1-798-035-61	ROTARY SWITCH
SE7711	Not supplied	SENSOR, ANGULAR VELOCITY
SE7731	1-490-064-31 *	SENSOR 3 AXIAL ACCELERATION

## SE-1010 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	A-2076-384-A	SE-1010 FLEXIBLE BOARD, COMPLETE
C0001	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V
C0002	1-116-741-11	CERAMIC CHIP 0.47uF 20% 10V
R0001	1-218-941-81	METAL CHIP 100 5% 1/16W

## SE-1010 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
SE0001	1-489-147-11	SENSOR, INFRARED
SE0002	Not supplied	SENSOR MAGNETIC

## ST-1032 FLEXIBLE BOARD

Ref. No. or Q'ty	Part No.	SP Description
	A-2076-383-A	ST-1032 FLEXIBLE BOARD, COMPLETE
C1002	△ 1-100-761-21	CERAMIC CHIP 0.01uF 10% 250V
C5325	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C5326	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C5327	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C5329	1-118-040-11	CERAMIC CHIP 2.2uF 10% 16V
C5331	1-118-459-11	CERAMIC CHIP 0.01uF 10% 25V
C5334	1-118-041-11	CERAMIC CHIP 4.7uF 10% 10V
C5800	1-116-714-11 *	CERAMIC CHIP 22uF 20% 6.3V
C5802	△ 1-116-456-11 *	CERAMIC CHIP 0.047uF 10% 350V
C7401	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C7404	Not supplied	CERAMIC CHIP 120PF 2% 50V
CN001	1-843-209-11	CONNECTOR, FFC/FPC (ZIF) 39P
CN0002	1-822-910-11 *	CONNECTOR, FPC (LIF (NON-ZIF))
CN0003	1-822-910-11 *	CONNECTOR, FPC (LIF (NON-ZIF))
D0001	△ 6-503-001-01 *	DIODE RR255M-400FJTR
D5321	6-503-737-01	DIODE CES520
D5800	△ 6-503-901-01 *	DIODE DA2JF6500L
IC5321	6-720-977-01 *	IC TPS61093DSKR
IC5800	6-716-806-01	IC R2J20071DNS
IC7401	6-715-114-01 *	IC CXD9950AK
L001	Not supplied	INDUCTOR 10uH
Q5321	6-552-213-01 *	TRANSISTOR RW1A020ZPFU7
Q5800	△ Not supplied	TRANSISTOR TIG065E8-TL-HQ
R0001	1-216-097-11	METAL CHIP 100K 5% 1/10W
R5331	1-240-707-91	METAL CHIP 10K 5% 1/20W
R5334	1-240-722-91	METAL CHIP 220K 5% 1/20W
R5335	1-250-519-11	METAL CHIP 10K 1% 1/16W
R5336	1-250-549-11 *	METAL CHIP 180K 1% 1/16W
R5337	1-250-519-11	METAL CHIP 10K 1% 1/16W
R5338	1-240-707-91	METAL CHIP 10K 5% 1/20W
R5800	1-218-871-11	METAL CHIP 10K 0.5% 1/10W
R5801	1-250-497-11	METAL CHIP 1.2K 1% 1/16W
R5802	1-218-935-11	METAL CHIP 33 5% 1/16W
R5803	1-250-471-11	METAL CHIP 100 1% 1/16W
R5804	△ 1-216-121-11	METAL CHIP 1M 5% 1/10W
T1001	△ 1-445-775-11 *	D.C.-D.C.CONVERTER TRANSFORMER

## SY-1052 BOARD

Ref. No. or Q'ty	Part No.	SP Description
	A-2081-835-A	SY-1052 BOARD, COMPLETE (SERVICE)
C0102	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C0103	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C0201	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C0202	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V

**SY-1052 BOARD**

Ref. No. or Q'ty	Part No.	SP Description
C0204	Not supplied	CERAMIC CHIP 10uF 20% 6.3V
C1001	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C1002	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C1003	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C1004	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1007	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1008	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1009	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1010	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1011	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1012	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1013	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1014	Not supplied	CERAMIC CHIP 0.22uF 20% 6.3V
C1015	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1017	Not supplied	CERAMIC CHIP 10uF 20% 6.3V
C1018	Not supplied	CERAMIC CHIP 10uF 20% 6.3V
C1019	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C1020	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C1021	Not supplied	CERAMIC CHIP 10uF 20% 6.3V
C1022	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1023	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1025	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1026	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1027	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1029	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1031	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1032	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1402	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1403	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1404	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1607	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1609	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1611	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1612	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1613	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C1615	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C2012	1-118-046-11	CERAMIC CHIP 4.7uF 10% 25V
C2013	1-116-717-11	CERAMIC CHIP 10uF 20% 10V
C2015	1-116-714-11 *	CERAMIC CHIP 22uF 20% 6.3V
C2016	1-116-714-11 *	CERAMIC CHIP 22uF 20% 6.3V
C2017	1-116-749-11	CERAMIC CHIP 22uF 20% 6.3V
C2018	1-116-714-11 *	CERAMIC CHIP 22uF 20% 6.3V
C2019	1-116-714-11 *	CERAMIC CHIP 22uF 20% 6.3V
C2801	1-116-749-11	CERAMIC CHIP 22uF 20% 6.3V
C2802	1-118-047-11	CERAMIC CHIP 10uF 10% 16V
C3004	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C3015	Not supplied	CERAMIC CHIP 0.022uF 10% 10V
C3016	Not supplied	CERAMIC CHIP 0.022uF 10% 10V
C3018	1-164-852-11	CERAMIC CHIP 12PF 5% 50V
C3019	1-164-850-11	CERAMIC CHIP 10PF 0.5PF 50V
C3201	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C3202	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C4301	1-116-717-11	CERAMIC CHIP 10uF 20% 10V
C4302	1-116-749-11	CERAMIC CHIP 22uF 20% 6.3V
C5104	1-116-717-11	CERAMIC CHIP 10uF 20% 10V
C5107	1-116-717-11	CERAMIC CHIP 10uF 20% 10V
C5108	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C5109	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C5110	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V
C5111	1-118-386-11	CERAMIC CHIP 0.1uF 10% 16V
C5112	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C5118	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C5119	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C5120	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C5121	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V

**SY-1052 BOARD**

Ref. No. or Q'ty	Part No.	SP Description
C5502	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C5503	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C5650	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C5651	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V
C5652	1-118-462-11	CERAMIC CHIP 1uF 10% 10V
C5654	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V
C5655	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C6060	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C6061	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C6062	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6063	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6065	1-118-477-11	CERAMIC CHIP 2.2uF 10% 6.3V
C6066	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6067	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6100	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C6103	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6104	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6127	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6128	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6129	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C6130	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6131	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6132	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6133	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6134	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C6141	1-116-749-11	CERAMIC CHIP 22uF 20% 6.3V
C6142	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C8405	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V
C8407	1-116-738-11 *	CERAMIC CHIP 1uF 10% 6.3V
C8409	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C8412	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C8413	Not supplied	CERAMIC CHIP 0.22uF 10% 6.3V
C8414	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9011	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9012	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C9013	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C9014	Not supplied	CERAMIC CHIP 4PF 50V
C9015	Not supplied	CERAMIC CHIP 4PF 50V
C9016	1-118-480-11	CERAMIC CHIP 4.7uF 10% 6.3V
C9017	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9104	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C9106	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C9109	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9110	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9115	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C9116	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C9117	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C9120	Not supplied	CERAMIC CHIP 0.1uF 10% 10V
C9200	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9201	Not supplied	CERAMIC CHIP 0.001uF 10% 25V
C9202	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9203	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9204	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9205	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9206	1-116-720-11 *	CERAMIC CHIP 10uF 20% 6.3V
C9207	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9208	1-118-757-11 *	CERAMIC CHIP 5PF 5% 50V
C9209	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9210	Not supplied	CERAMIC CHIP 0.001uF 10% 25V
C9211	Not supplied	CERAMIC CHIP 10PF 5% 50V
C9212	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9213	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9214	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9216	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9217	Not supplied	CERAMIC CHIP 22PF 5% 50V

**SY-1052 BOARD**

Ref. No. or Q'ty	Part No.	SP Description
C9218	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9219	1-116-749-11	CERAMIC CHIP 22uF 20% 6.3V
C9221	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9223	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9225	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9227	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9229	1-116-749-11	CERAMIC CHIP 22uF 20% 6.3V
C9230	1-116-749-11	CERAMIC CHIP 22uF 20% 6.3V
C9231	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9236	1-116-749-11	CERAMIC CHIP 22uF 20% 6.3V
C9237	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9238	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9240	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C9241	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9243	1-118-168-11	CERAMIC CHIP 1uF 20% 6.3V
C9244	1-116-749-11	CERAMIC CHIP 22uF 20% 6.3V
C9245	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9246	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9247	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9249	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9250	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9251	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9300	Not supplied	CERAMIC CHIP 0.1uF 10% 6.3V
C9400	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9401	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9402	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9500	Not supplied	CERAMIC CHIP 100PF 5% 50V
C9501	Not supplied	CERAMIC CHIP 100PF 5% 50V
C9502	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
C9503	1-118-458-11 *	CERAMIC CHIP 0.1uF 10% 6.3V
CN0101	1-843-209-11	CONNECTOR, FFC/FPC (ZIF) 39P
CN0102	1-820-634-51 *	CONNECTOR, FPC (LIF (NON-ZIF)) 10P
CN0103	1-843-469-11	CONNECTOR, FPC (ZIF) 61P
CN0104	Not supplied	SOCKET, USB CONNECTOR
CN0106	1-843-209-11	CONNECTOR, FFC/FPC (ZIF) 39P
CN0107	1-843-209-11	CONNECTOR, FFC/FPC (ZIF) 39P
CN0201	Not supplied	CONNECTOR, FPC (ZIF) 51P
CN0202	1-816-655-61	CONNECTOR, FFC/FPC 8P
CN0203	Not supplied	CONNECTOR, FPC (ZIF) 51P
CN9000	1-843-066-11	CONNECTOR, HDMI
D101	6-502-988-01 *	DIODE RB480Y-40T2R
D1401	6-503-126-01	DIODE DA2S10100K8
D1601	6-503-126-01	DIODE DA2S10100K8
D3001	6-502-988-01 *	DIODE RB480Y-40T2R
D5100	6-503-737-01	DIODE CES520
D5101	Not supplied	DIODE RBE05SM20AGJT2R
D9000	6-502-988-01 *	DIODE RB480Y-40T2R
F2204	△ 1-523-369-11	FUSE (1A/24V)
F2205	△ 1-523-366-11	FUSE (0.63A/24V)
F2206	△ 1-576-844-31	FUSE (2.5A/24V)
FB1004	1-481-349-21	EMI FERRITE (SMD) (1608)
FB1005	1-400-354-11	INDUCTOR, FERRITE BEAD (1005)
FB1401	1-481-250-11 *	INDUCTOR, FERRITE BEAD (1005)
FB1402	1-400-354-11	INDUCTOR, FERRITE BEAD (1005)
FB6060	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB9010	1-481-912-21	EMI FERRITE (SMD) (1005)
FB9200	1-481-377-21	FERRITE, EMI (SMD)
FB9201	1-481-377-21	FERRITE, EMI (SMD)
FB9400	1-481-250-11 *	INDUCTOR, FERRITE BEAD (1005)
IC1001	6-716-878-01	IC AK8153AU-L
IC2801	Not supplied	IC NCP6343AVFCCCT1G
IC3201	Not supplied	IC TC7QP9306FTG

**SY-1052 BOARD**

Ref. No. or Q'ty	Part No.	SP Description
IC4301	Not supplied	IC NCP6343SFCCT1G
IC4302	Not supplied	IC PST8623UL
IC5101	Not supplied	IC MB44C031PW-G-ER2E1
IC5103	Not supplied	IC MM3376A50RRE
IC5104	6-719-398-01 *	IC MM3416A10RRE
IC5510	Not supplied	IC MM3416A18RRE
IC5511	6-717-848-01	IC NCP380HSNAJAAT1G
IC5650	Not supplied	IC MAX14648DEWA+TG1A
IC6000	Not supplied	IC MCZ4G8G11E
IC8020	Not supplied	IC SN65LVDS311YFFR
IC8400	6-716-838-01	IC BU76P31GUW-E2
IC9010	6-720-312-01	IC R5540K002D-TR
IC9011	Not supplied	IC SI52112-B3ZM21R
IC9012	Not supplied	IC CXD4236-1GG
IC9101	6-720-312-01	IC R5540K002D-TR
IC9102	Not supplied	IC BDS2DJ22GUL-E2
IC9103	Not supplied	IC BDS2DJ22GUL-E2
IC9104	Not supplied	IC MM3416A25RRE
IC9105	6-720-455-01 *	IC OZ8034
IC9300	Not supplied	IC TC7SB3157CFU, RSF
IC9400	6-712-850-01	IC TC76P3125TU (5RSR, F
IC9401	6-700-831-01	IC TC7WZ74FK
L1001	1-400-674-21 *	INDUCTOR 4.7uH
L1002	1-400-674-21 *	INDUCTOR 4.7uH
L1003	1-400-136-21 *	INDUCTOR 4.7uH
L1004	1-400-674-21 *	INDUCTOR 4.7uH
L1005	1-400-674-21 *	INDUCTOR 4.7uH
L1006	1-400-136-21 *	INDUCTOR 4.7uH
L2001	1-481-926-11	INDUCTOR 2.2uH
L2002	Not supplied	INDUCTOR 10uH
L2003	Not supplied	INDUCTOR 1.5uH
L2004	Not supplied	INDUCTOR 4.7uH
L2005	1-481-926-11	INDUCTOR 2.2uH
L2006	Not supplied	INDUCTOR 4.7uH
L2801	Not supplied	INDUCTOR 0.47uH
L3001	1-400-137-11	INDUCTOR 10uH
L4301	Not supplied	INDUCTOR 0.47uH
L9000	Not supplied	COMMON MODE CHOKE COIL15 (0806)
L9001	Not supplied	COMMON MODE CHOKE COIL15 (0806)
L9002	Not supplied	COMMON MODE CHOKE COIL15 (0806)
L9003	Not supplied	COMMON MODE CHOKE COIL15 (0806)
Q0201	6-552-621-01	TRANSISTOR SSM3K37MFV, L3SOF
Q1201	6-551-631-01	TRANSISTOR RN1104MFV (TL3S
Q1601	6-552-700-01 *	TRANSISTOR SSM3K15AMFV, L3SF
Q1602	6-552-621-01	TRANSISTOR SSM3K37MFV, L3SOF
Q3001	6-552-621-01	TRANSISTOR SSM3K37MFV, L3SOF
Q3002	6-552-699-01	TRANSISTOR SSM3J35MFV, L3SOF
Q4301	6-552-699-01	TRANSISTOR SSM3J35MFV, L3SOF
Q9000	6-551-202-01	TRANSISTOR LM6K1FS8T2R
Q9001	6-552-700-01 *	TRANSISTOR SSM3K15AMFV, L3SF
Q9100	6-552-845-01	TRANSISTOR SSM3K121TU, LSOYF
Q9101	Not supplied	TRANSISTOR RN1906FE
R0101	1-240-687-91	METAL CHIP 220 5% 1/20W
R0104	1-240-695-91	METAL CHIP 1K 5% 1/20W
R1002	Not supplied	METAL CHIP 12K 1% 1/20W
R1003	1-240-695-91	METAL CHIP 1K 5% 1/20W
R1005	1-240-695-91	METAL CHIP 1K 5% 1/20W
R1006	1-240-683-91	METAL CHIP 100 5% 1/20W
R1008	1-240-683-91	METAL CHIP 100 5% 1/20W
R1009	1-240-681-91	METAL CHIP 68 5% 1/20W
R1011	1-240-695-91	METAL CHIP 1K 5% 1/20W
R1012	Not supplied	METAL CHIP 12K 1% 1/20W
R1407	1-240-683-91	METAL CHIP 100 5% 1/20W
R1408	1-240-681-91	METAL CHIP 68 5% 1/20W

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Ref. No. or Q'ty	Part No.	SP Description
R1409	1-240-681-91	METAL CHIP 68 5% 1/20W
R1410	1-240-681-91	METAL CHIP 68 5% 1/20W
R1411	1-240-681-91	METAL CHIP 68 5% 1/20W
R1412	1-240-681-91	METAL CHIP 68 5% 1/20W
R1413	1-240-681-91	METAL CHIP 68 5% 1/20W
R1414	1-240-681-91	METAL CHIP 68 5% 1/20W
R1415	1-240-681-91	METAL CHIP 68 5% 1/20W
R1416	1-240-681-91	METAL CHIP 68 5% 1/20W
R1417	1-240-679-91	METAL CHIP 47 5% 1/20W
R1418	1-240-679-91	METAL CHIP 47 5% 1/20W
R1419	1-240-681-91	METAL CHIP 68 5% 1/20W
R1420	1-240-681-91	METAL CHIP 68 5% 1/20W
R1421	1-240-681-91	METAL CHIP 68 5% 1/20W
R1422	1-240-681-91	METAL CHIP 68 5% 1/20W
R1424	1-240-703-91	METAL CHIP 4.7K 5% 1/20W
R1425	1-240-703-91	METAL CHIP 4.7K 5% 1/20W
R1426	1-240-703-91	METAL CHIP 4.7K 5% 1/20W
R1433	1-240-703-91	METAL CHIP 4.7K 5% 1/20W
R1602	1-240-707-91	METAL CHIP 10K 5% 1/20W
R1603	Not supplied	METAL CHIP 100K 1% 1/20W
R1604	Not supplied	METAL CHIP 220K 1% 1/20W
R1605	1-240-714-91	METAL CHIP 47K 5% 1/20W
R1608	1-240-707-91	METAL CHIP 10K 5% 1/20W
R1609	1-240-707-91	METAL CHIP 10K 5% 1/20W
R1610	Not supplied	METAL CHIP 220K 1% 1/20W
R1611	1-240-729-91	METAL CHIP 1M 5% 1/20W
R1612	1-240-707-91	METAL CHIP 10K 5% 1/20W
R1613	1-240-707-91	METAL CHIP 10K 5% 1/20W
R1614	1-240-718-91	METAL CHIP 100K 5% 1/20W
R2003	1-208-635-11	METAL CHIP 10 0.5% 1/16W
R2401	1-240-711-91	METAL CHIP 22K 5% 1/20W
R2402	1-218-953-11	METAL CHIP 1K 5% 1/16W
R3007	1-240-729-91	METAL CHIP 1M 5% 1/20W
R3009	1-240-703-91	METAL CHIP 4.7K 5% 1/20W
R3212	1-240-695-91	METAL CHIP 1K 5% 1/20W
R3213	1-240-695-91	METAL CHIP 1K 5% 1/20W
R3214	1-240-695-91	METAL CHIP 1K 5% 1/20W
R3215	1-240-695-91	METAL CHIP 1K 5% 1/20W
R3225	1-240-707-91	METAL CHIP 10K 5% 1/20W
R3226	1-240-707-91	METAL CHIP 10K 5% 1/20W
R3401	1-240-683-91	METAL CHIP 100 5% 1/20W
R3402	1-240-683-91	METAL CHIP 100 5% 1/20W
R3403	1-240-683-91	METAL CHIP 100 5% 1/20W
R3404	1-240-683-91	METAL CHIP 100 5% 1/20W
R3405	1-240-683-91	METAL CHIP 100 5% 1/20W
R3406	1-240-683-91	METAL CHIP 100 5% 1/20W
R3407	1-240-683-91	METAL CHIP 100 5% 1/20W
R3408	1-240-683-91	METAL CHIP 100 5% 1/20W
R3409	1-240-683-91	METAL CHIP 100 5% 1/20W
R3410	1-240-683-91	METAL CHIP 100 5% 1/20W
R3411	1-240-683-91	METAL CHIP 100 5% 1/20W
R3412	1-240-683-91	METAL CHIP 100 5% 1/20W
R3413	1-240-683-91	METAL CHIP 100 5% 1/20W
R3414	1-240-683-91	METAL CHIP 100 5% 1/20W
R3415	1-240-683-91	METAL CHIP 100 5% 1/20W
R3416	1-240-683-91	METAL CHIP 100 5% 1/20W
R3417	1-240-683-91	METAL CHIP 100 5% 1/20W
R3418	1-240-683-91	METAL CHIP 100 5% 1/20W
R3419	1-240-683-91	METAL CHIP 100 5% 1/20W
R3420	1-240-683-91	METAL CHIP 100 5% 1/20W
R3421	1-240-683-91	METAL CHIP 100 5% 1/20W
R3422	1-240-683-91	METAL CHIP 100 5% 1/20W
R3423	1-240-683-91	METAL CHIP 100 5% 1/20W
R3424	1-240-683-91	METAL CHIP 100 5% 1/20W
R3425	1-240-683-91	METAL CHIP 100 5% 1/20W

**SY-1052 BOARD**

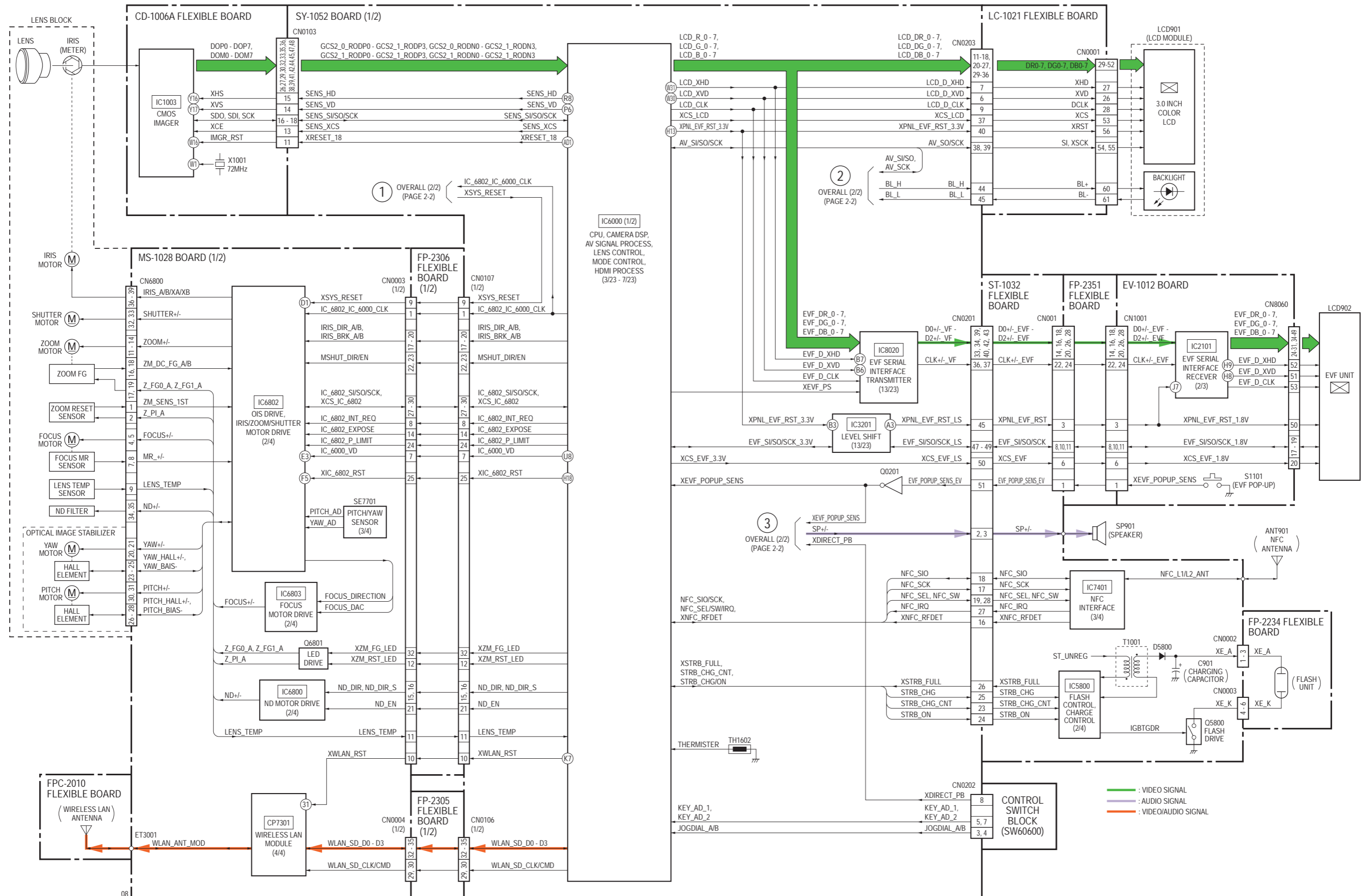
Ref. No. or Q'ty	Part No.	SP Description
R3426	1-240-683-91	METAL CHIP 100 5% 1/20W
R3427	1-240-683-91	METAL CHIP 100 5% 1/20W
R4306	1-240-729-91	METAL CHIP 1M 5% 1/20W
R5651	1-250-543-11 *	METAL CHIP 100K 1% 1/16W
R6060	1-257-249-11 *	METAL CHIP 3.3K 1% 1/20W
R6061	Not supplied	METAL CHIP 12K 1% 1/20W
R6062	1-257-249-11 *	METAL CHIP 3.3K 1% 1/20W
R6125	Not supplied	METAL CHIP 220 1% 1/20W
R6126	Not supplied	METAL CHIP 220 1% 1/20W
R6128	Not supplied	METAL CHIP 240 1% 1/20W
R6129	Not supplied	METAL CHIP 10K 1% 1/20W
R6130	Not supplied	METAL CHIP 10K 1% 1/20W
R9000	1-240-712-91	METAL CHIP 27K 5% 1/20W
R9011	1-240-709-91	METAL CHIP 15K 5% 1/20W
R9012	1-240-713-91	METAL CHIP 33K 5% 1/20W
R9098	1-240-698-91	METAL CHIP 1.8K 5% 1/20W
R9099	1-240-698-91	METAL CHIP 1.8K 5% 1/20W
R9105	1-240-707-91	METAL CHIP 10K 5% 1/20W
R9107	1-240-718-91	METAL CHIP 100K 5% 1/20W
R9108	1-240-707-91	METAL CHIP 10K 5% 1/20W
R9110	1-240-691-91	METAL CHIP 470 5% 1/20W
R9401	1-240-683-91	METAL CHIP 100 5% 1/20W
R9402	1-240-683-91	METAL CHIP 100 5% 1/20W
R9500	Not supplied	METAL CHIP 510 1% 1/20W
R9501	Not supplied	METAL CHIP 510 1% 1/20W
R9506	Not supplied	METAL CHIP 180 1% 1/20W
RB9330	1-234-381-11	RES, NETWORK 100K (1005X4)
RB9331	1-234-381-11	RES, NETWORK 100K (1005X4)
TH1602	1-805-194-21	THERMISTOR, NTC (SMD)
X1001	Not supplied	QUARTZ CRYSTAL OSCILLATOR (72MHz)
X3001	1-795-602-61	VIBRATOR, CRYSTAL (32.768kHz)
X9010	Not supplied	SILICON OSCILLATOR (2520) (74.25MHz)
X9011	1-814-552-11	VIBRATOR, CRYSTAL (25MHz)



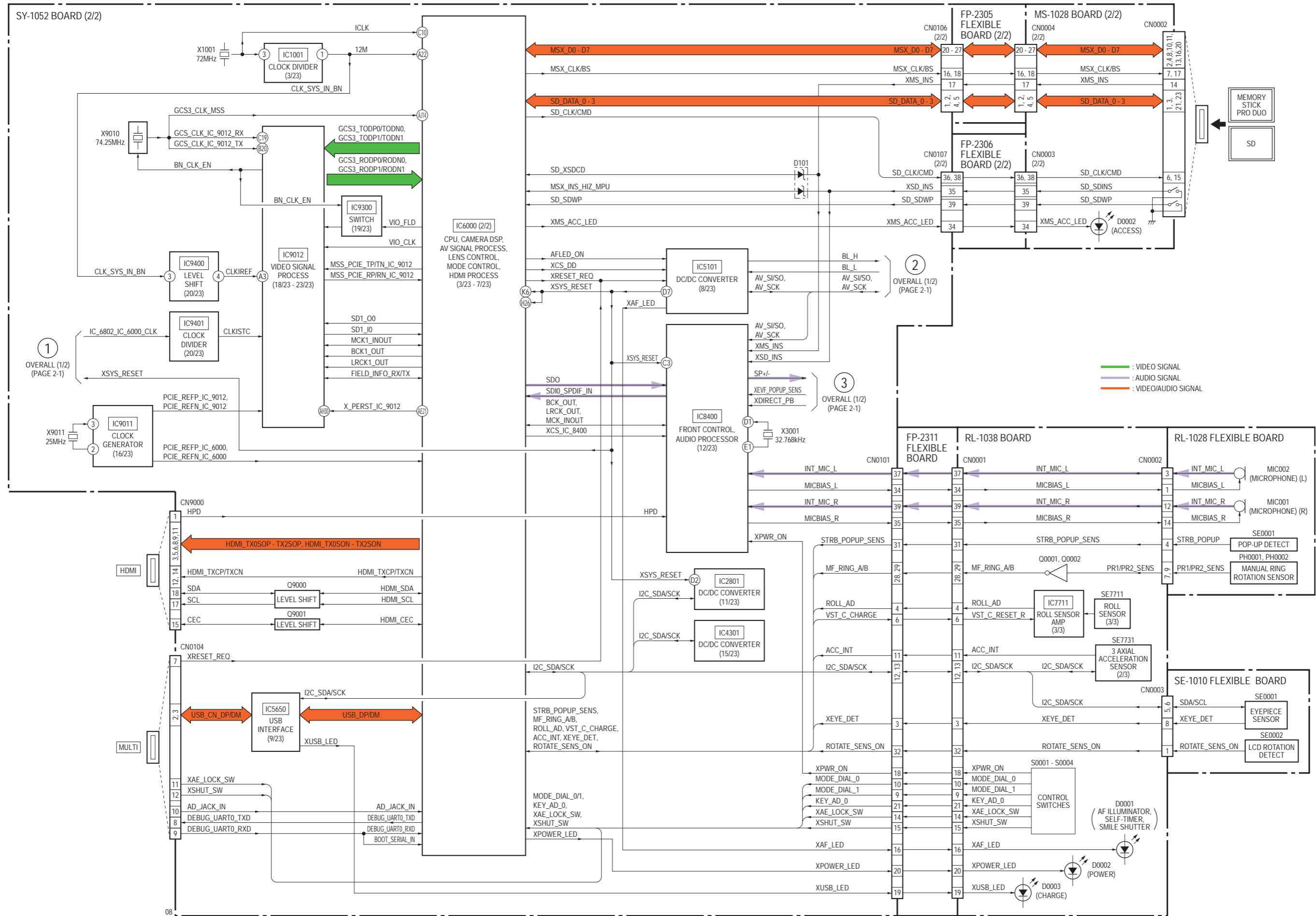


## Section 2 Block Diagrams

Overall (1/2)

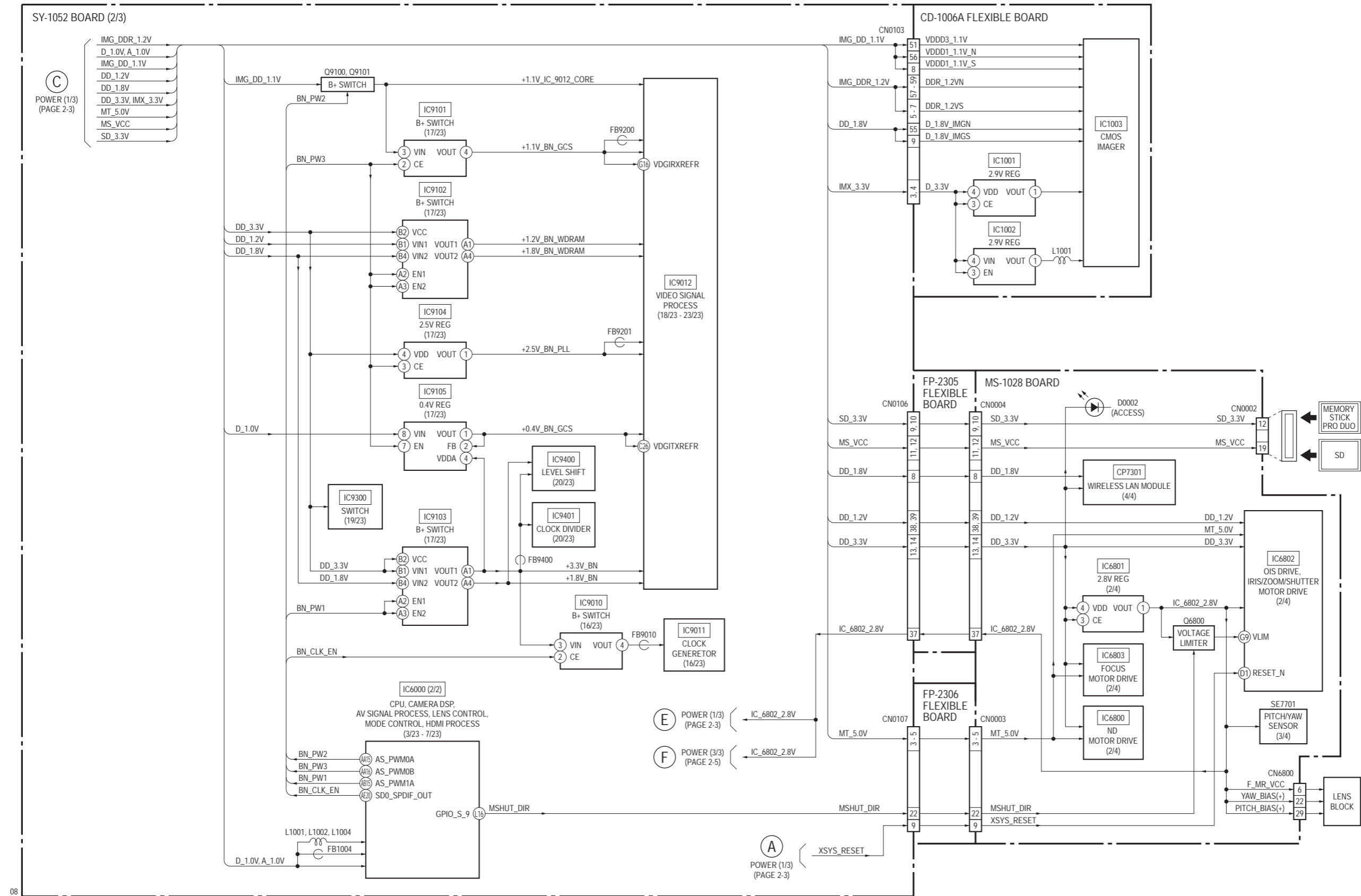


Overall (2/2)



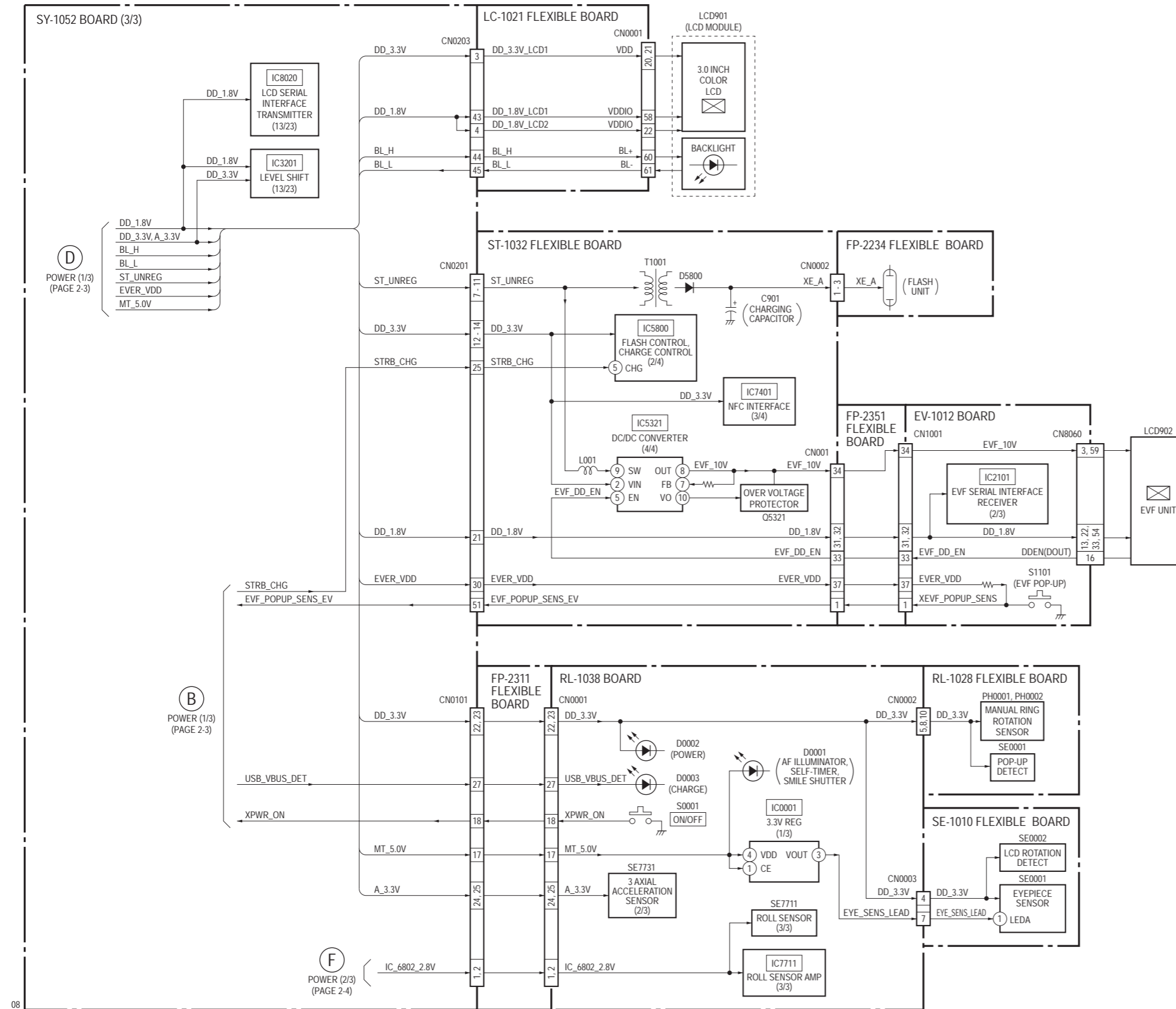


Power (2/3)



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**Power (3/3)**

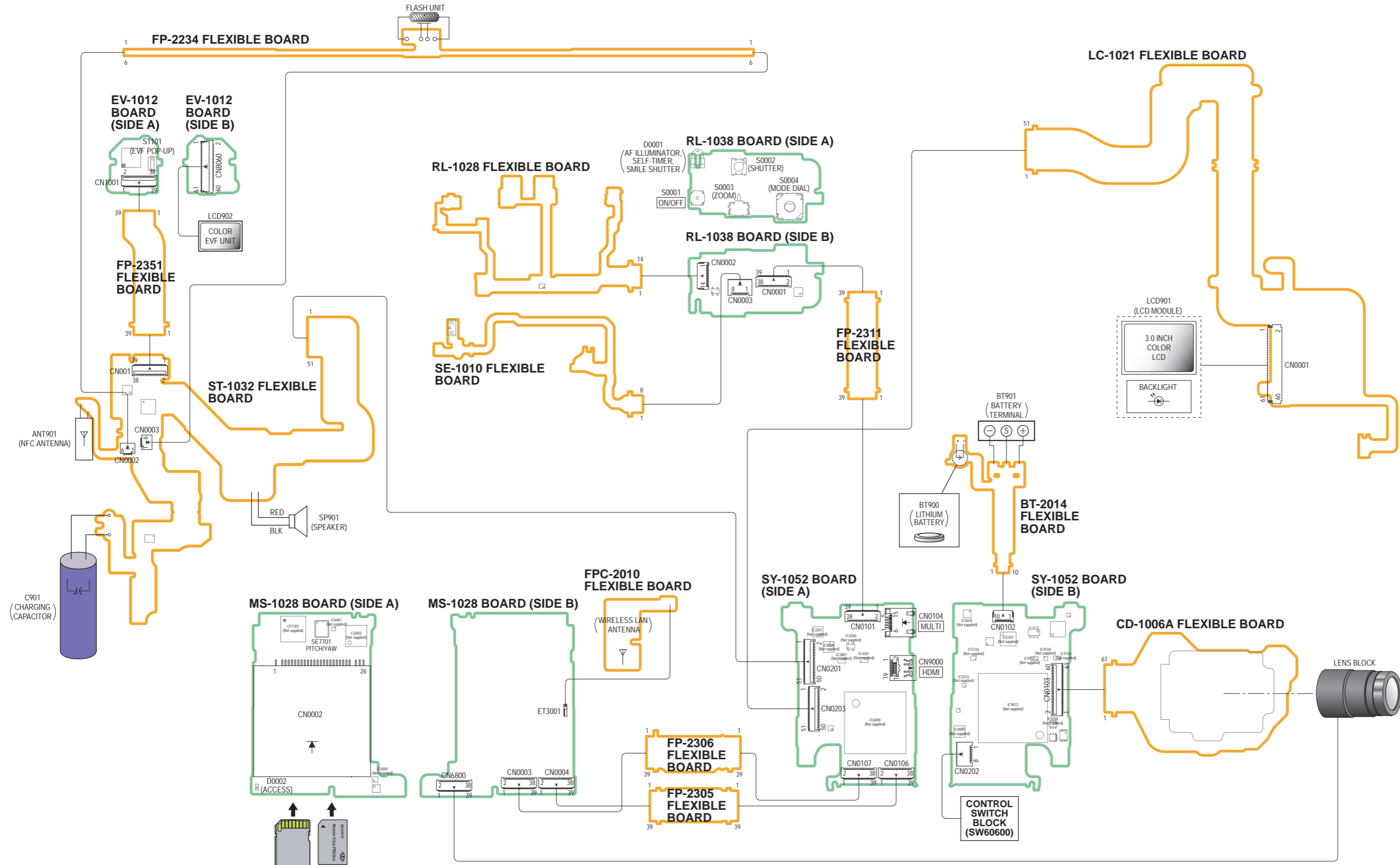


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# Section 3 Frame Schematic Diagrams

## Frame Wiring










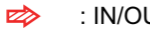



## Section 4 Schematic Diagrams

### Note For Schematic Diagrams

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  $\text{pF}$  :  $\mu\mu\text{F}$ . 50 V or less are not indicated except for electrolytics and tantalums.
- Chip resistors are 1/10 W unless otherwise noted.  $\text{k}\Omega=1000 \Omega$ ,  $\text{M}\Omega=1000 \text{k}\Omega$ .
- Caution when replacing chip parts. New parts must be attached after removal of chip. Be careful not to heat the minus side of tantalum capacitor, Because it is damaged by the heat.
- Some chip part will be indicated as follows.

Example	C541	L452
	22U	10UH
	TA A	2520
Kinds of capacitor	Case size	External dimensions (mm)

- Constants of resistors, capacitors, ICs and etc with XX indicate that they are not used. In such cases, the unused circuits may be indicated.
- Parts with ★ differ according to the model/destination. Refer to the mount table for each function.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Signal name  
XEDIT →  $\overline{\text{EDIT}}$       PB/XREC →  $\overline{\text{PB/REC}}$
- : non flammable resistor
- : fusible resistor
- : panel designation
- : B+ Line
- : B- Line
- : IN/OUT direction of (+, -) B LINE.
- : adjustment for repair.

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.



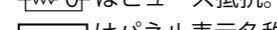
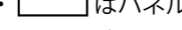


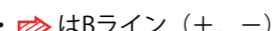
#### Precautions for Replacement of Imager

- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC. In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

### 回路図ノート

- ケミコン、タンタルを除くコンデンサで、耐圧50V以下のものはその耐圧を省略。単位はすべて $\mu\text{F}$  (pはpF)。
- チップ抵抗で指示のないものは、1/10W以下。 $\text{k}\Omega=1000\Omega$ ,  $\text{M}\Omega=1000\text{k}\Omega$
- チップ部品交換時の注意  
取り外した部品は再使用せず、未使用の部品をご使用ください。  
タンタルコンデンサのマイナス側は熱に弱いため注意してください。
- チップ部品には下記のように表示したものがあります。

例	C541	L452
	22U	10UH
	TA A	2520
種類	ケースサイズ	外形寸法 (mm)

- 抵抗、コンデンサ、ICなど定数にXXがあるものは、使用していない事を示しています。このため、使用していない回路が記載されている事があります。
- ★印のある部品は、機種などにより異なりますので機能別マウント一覧表を参照してください。
- 可変抵抗と半固定抵抗で、B特性の表示を省略。
- 信号名表記について、下記のような場合があります。  
XEDIT →  $\overline{\text{EDIT}}$       PB/XREC →  $\overline{\text{PB/REC}}$
-  は不燃性抵抗。
-  はヒューズ抵抗。
-  はパネル表示名称。
-  はB+ライン。
-  はB-ライン。
-  はBライン (+, -) の入出力方向を示す。
-  は調整名称。

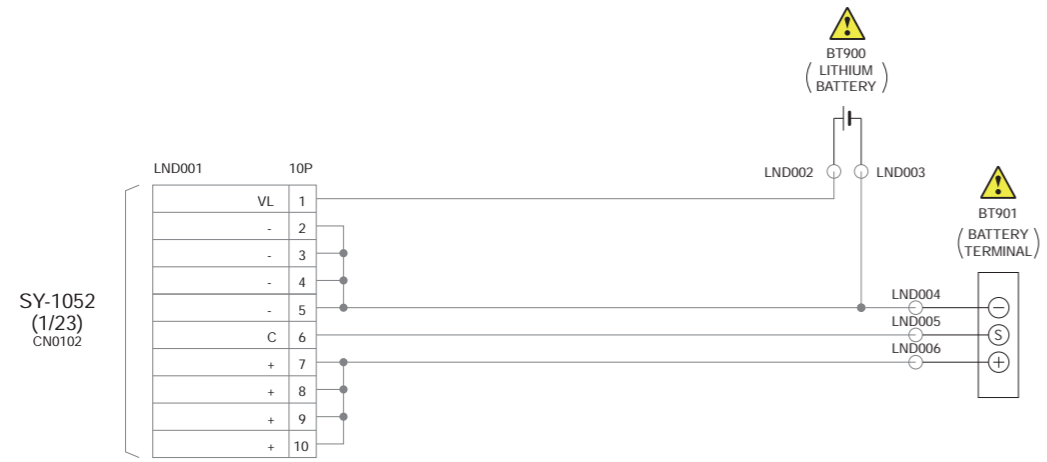
$\Delta$ 印の部品、または $\Delta$ 印付の点線で囲まれた部品は、安全性を維持するために、重要な部品です。従って交換時は、必ず指定の部品を使用してください。

お願い  
図面番号で部品を指定するときは基板名又はブロックを併せて指定してください。

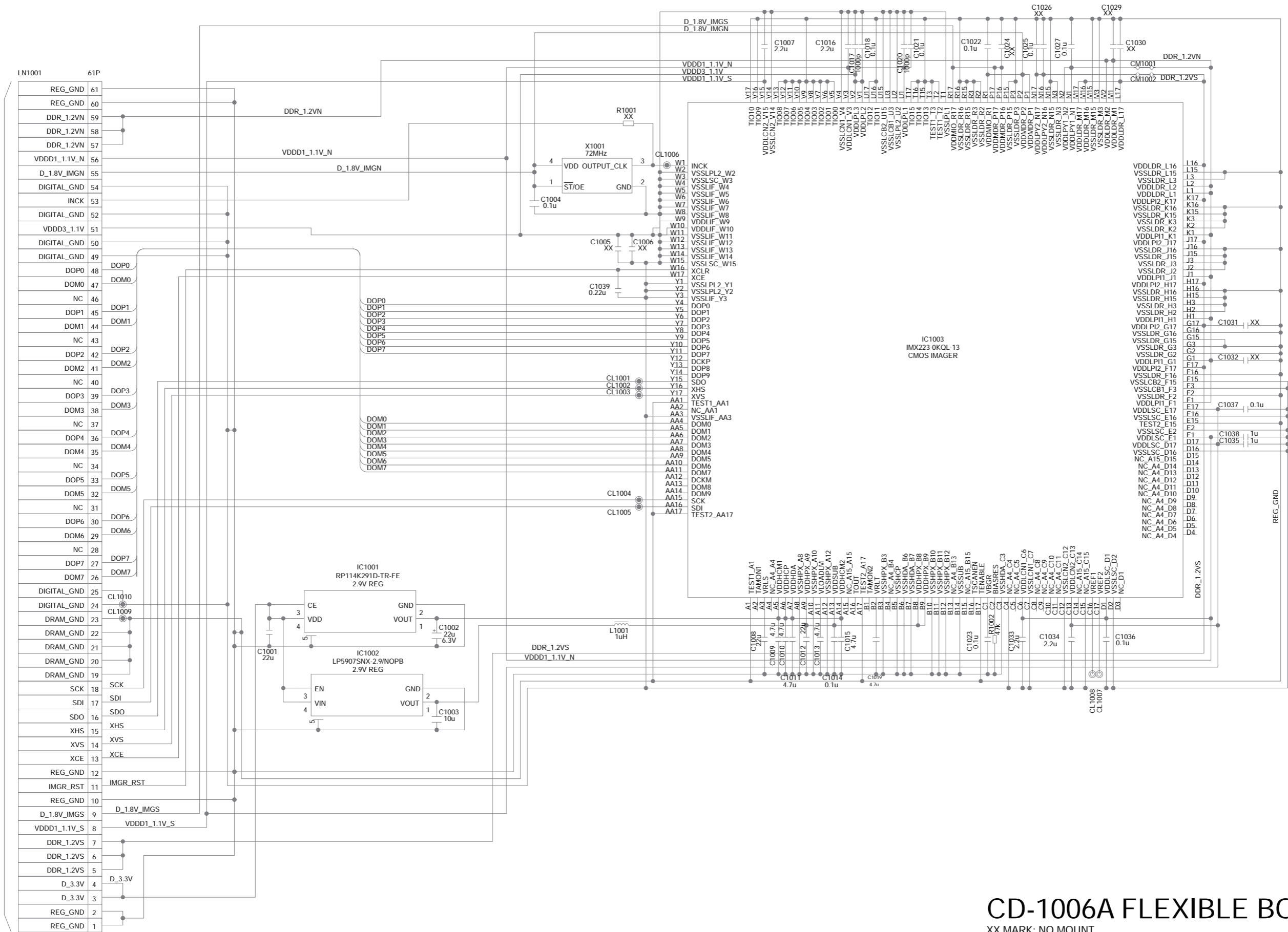
#### イメージ交換時の注意

- イメージを交換した場合は、カメラ部の全調整を行ってください。
- イメージは構造上、静電気により破壊される恐れがあるため、MOS ICと同様に注意して取り扱ってください。また、受光部にはゴミの付着、および強い光がはいることのないように注意してください。

**BT-2014**



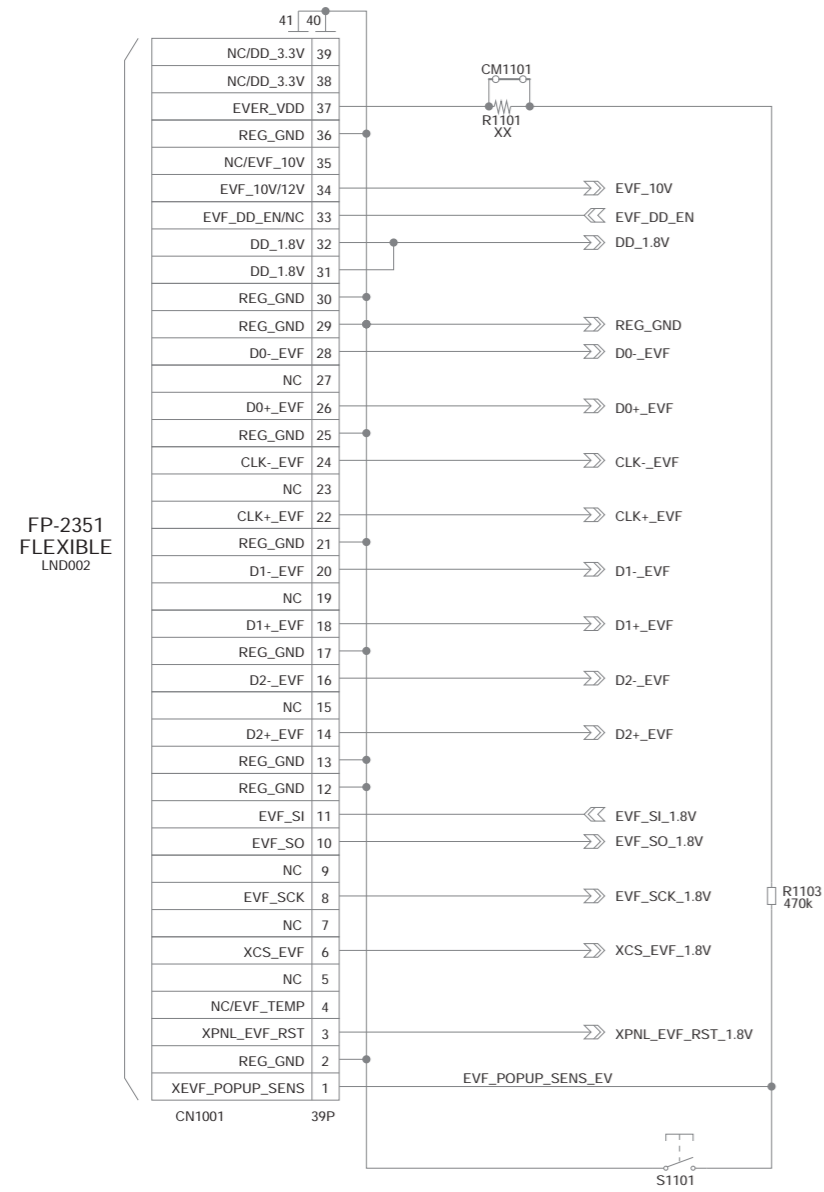
**BT-2014 FLEXIBLE BOARD**



# CD-1006A FLEXIBLE BOARD

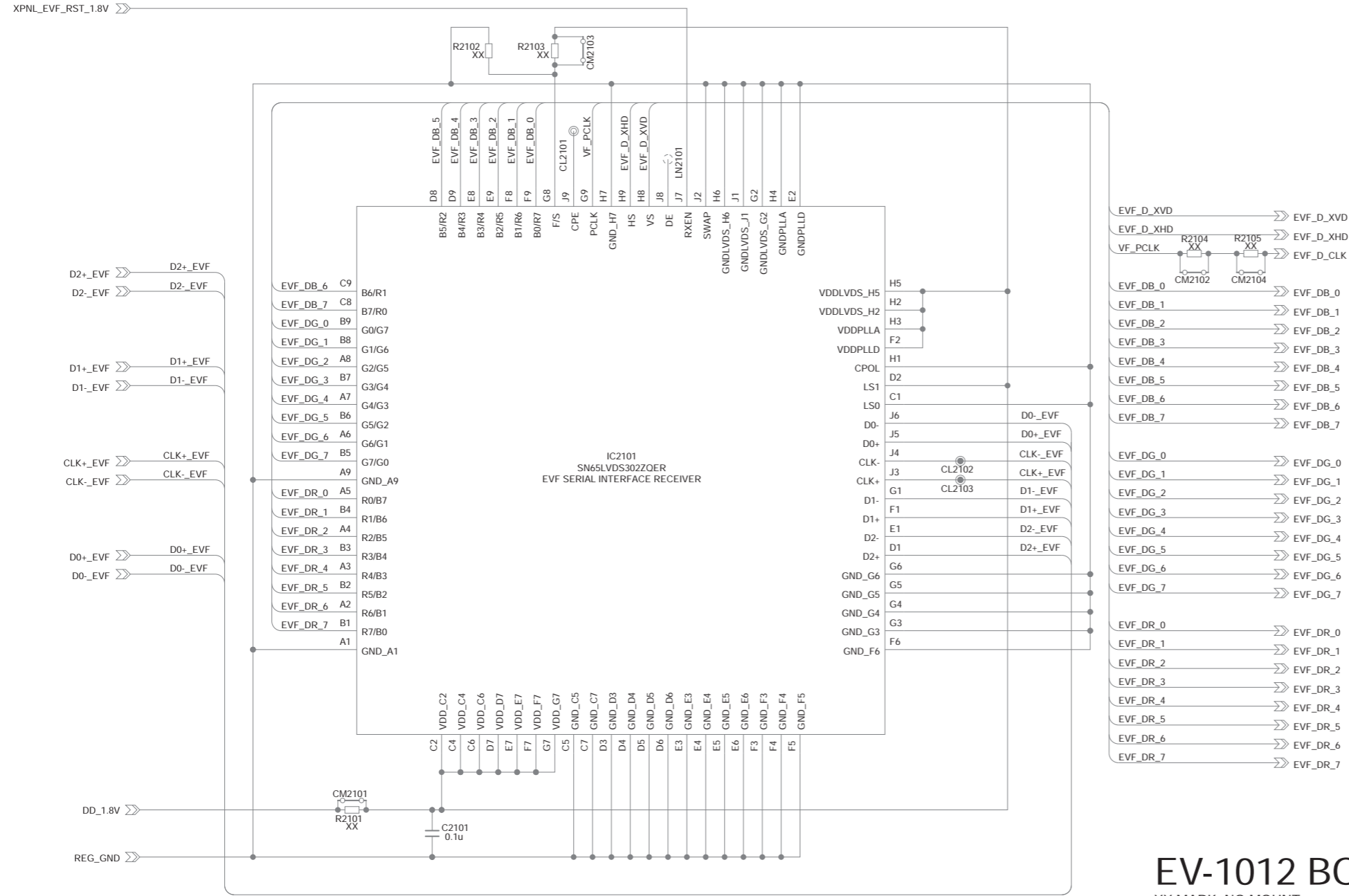
XX MARK: NO MOUNT

**EV-1012**  
**EV-1012 (1/3)**



**EV-1012 BOARD (1/3)**  
 XX MARK: NO MOUNT

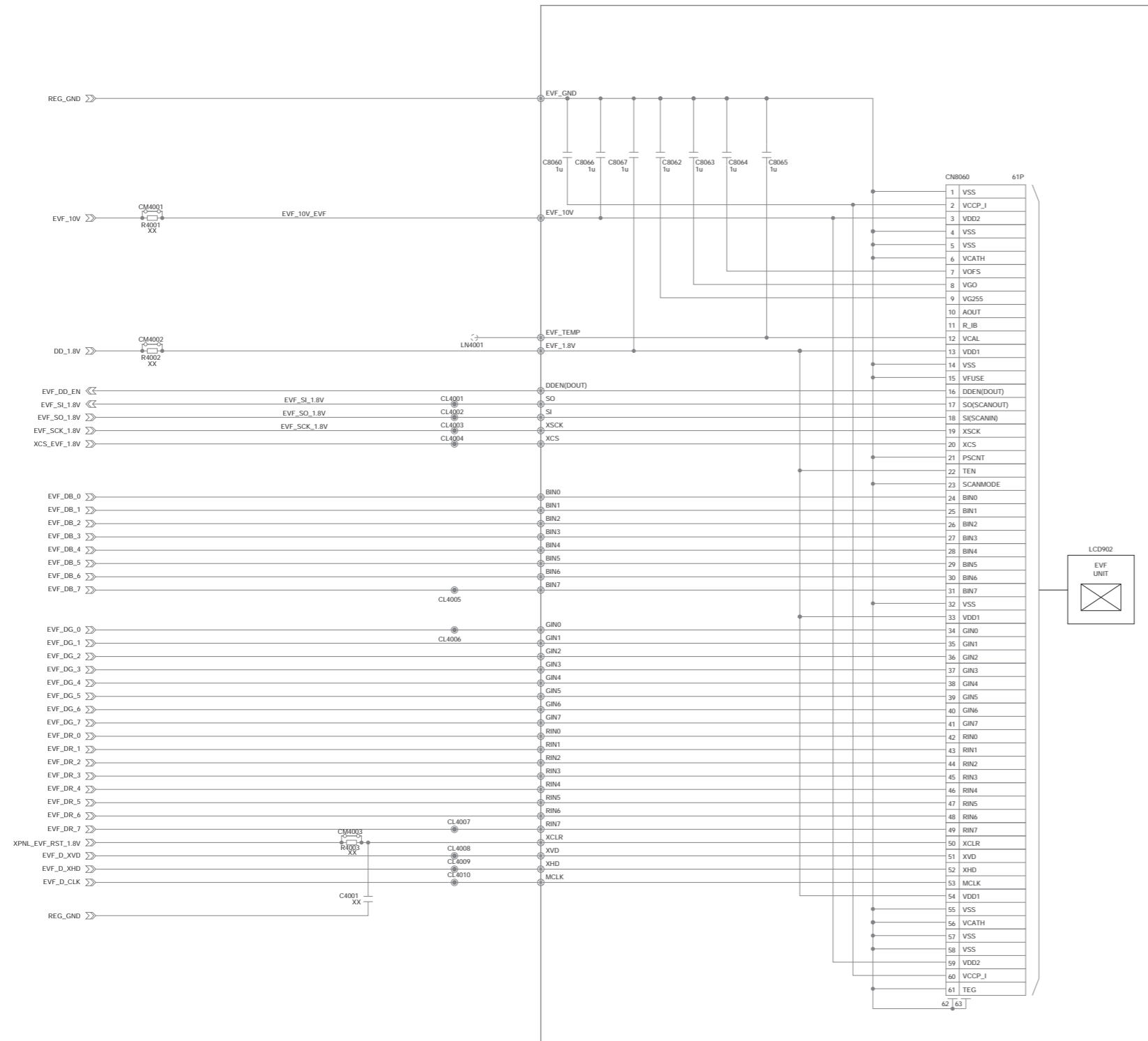
# EV-1012 (2/3)



# EV-1012 BOARD (2/3)

XX MARK: NO MOUNT

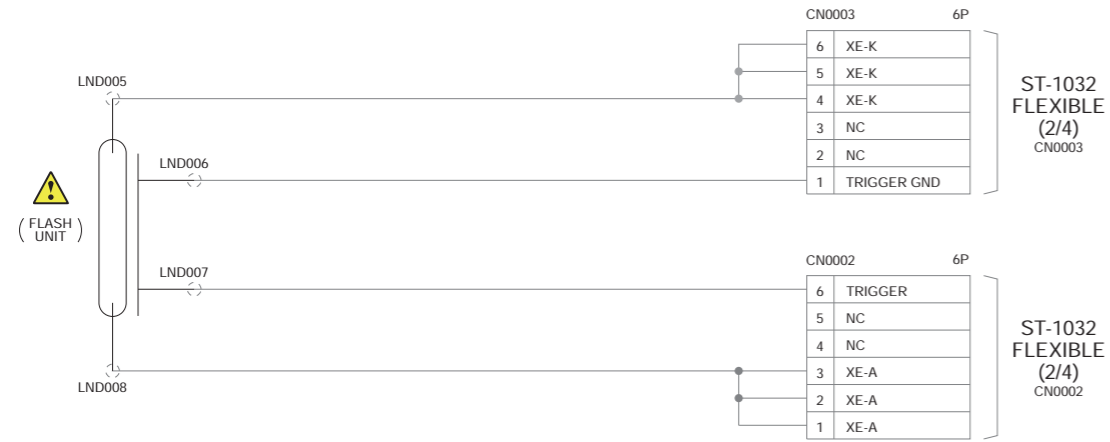
EV-1012 (3/3)



EV-1012 BOARD (3/3)

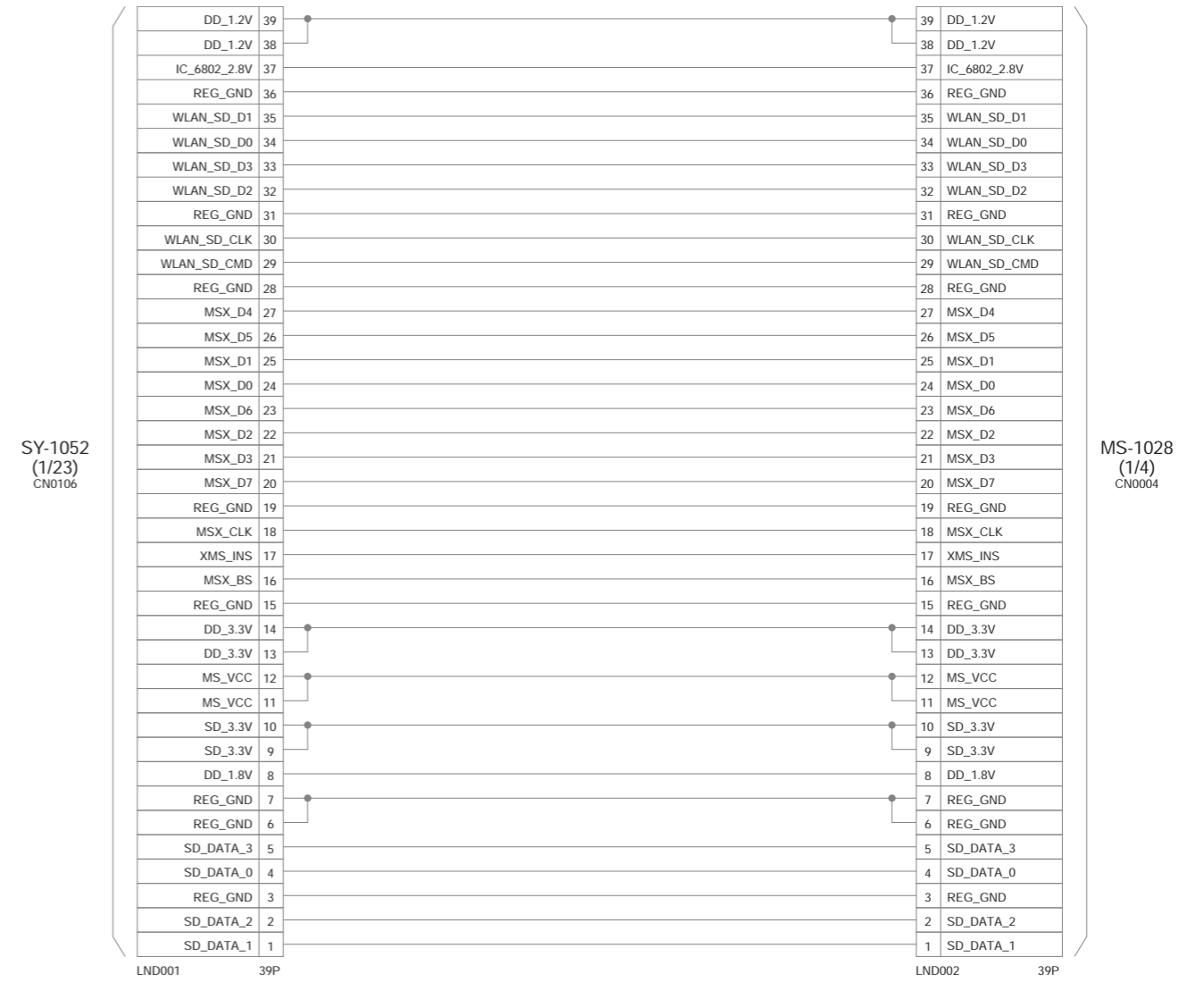
XX MARK: NO MOUNT

**FP-2234**



**FP-2234 FLEXIBLE BOARD**

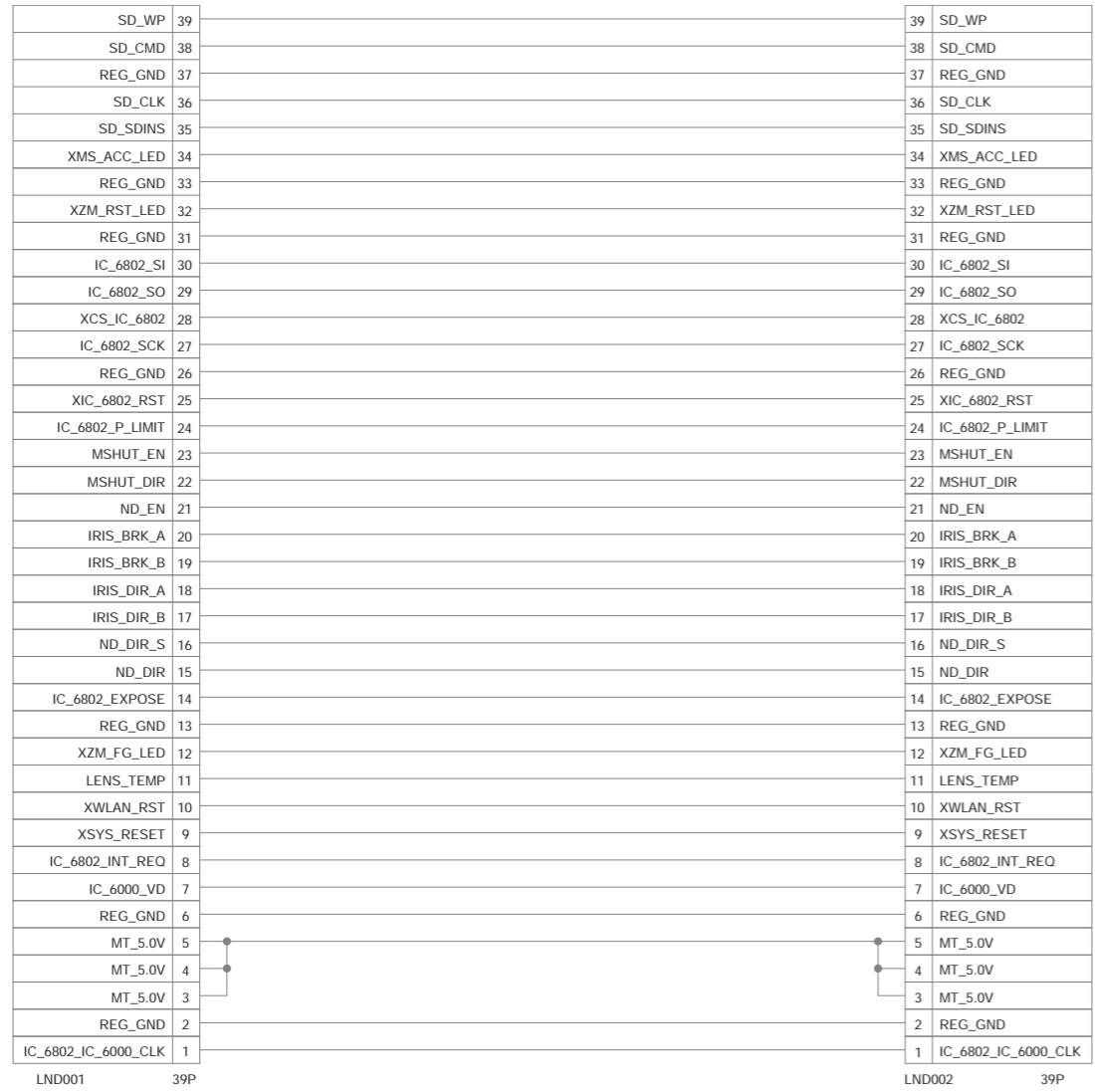
**FP-2305**



**FP-2305 FLEXIBLE BOARD**

**FP-2306**

SY-1052  
(1/23)  
CN0107



MS-1028  
(1/4)  
CN0003

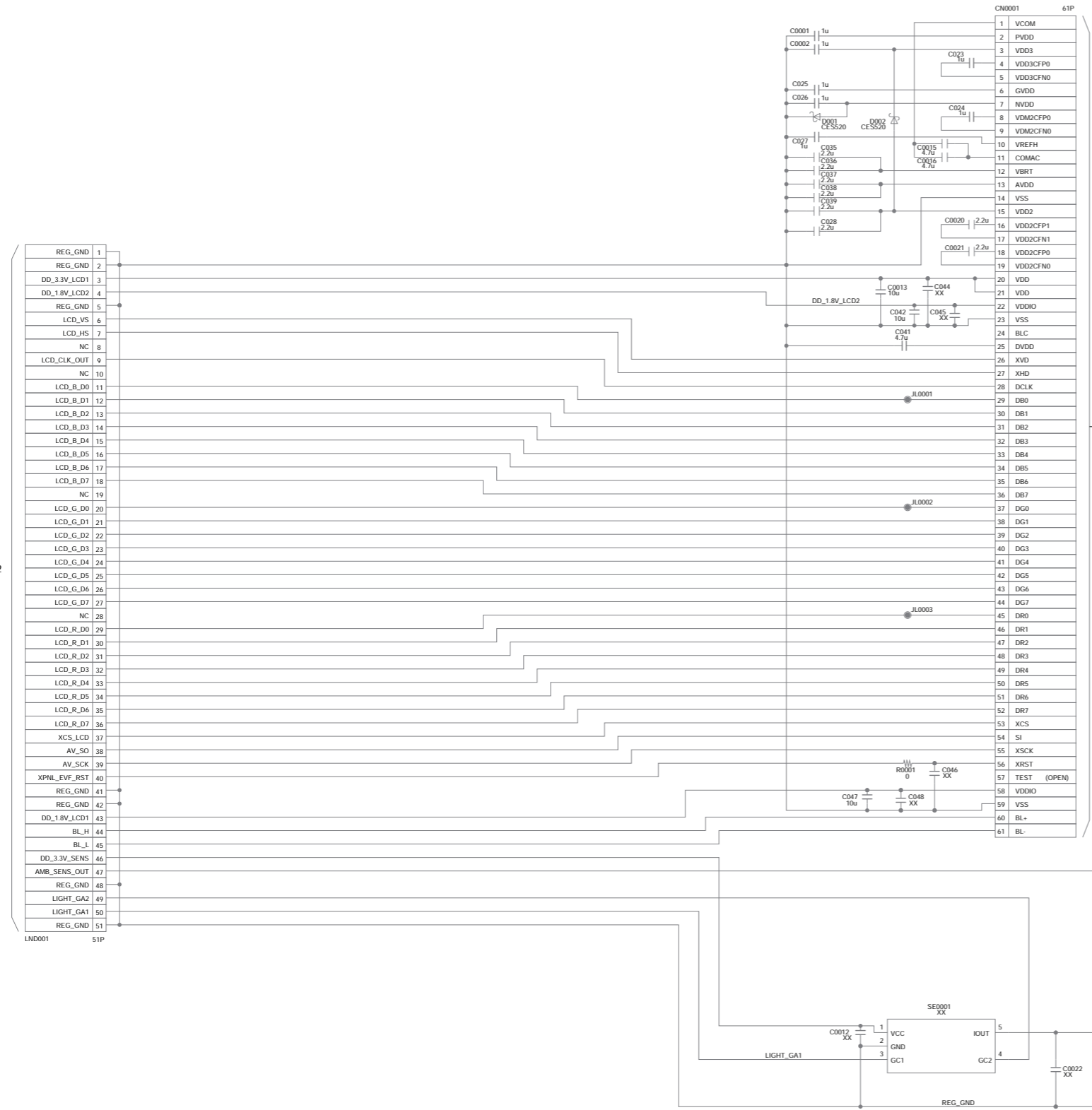
**FP-2306 FLEXIBLE BOARD**





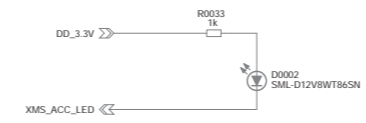
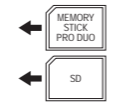
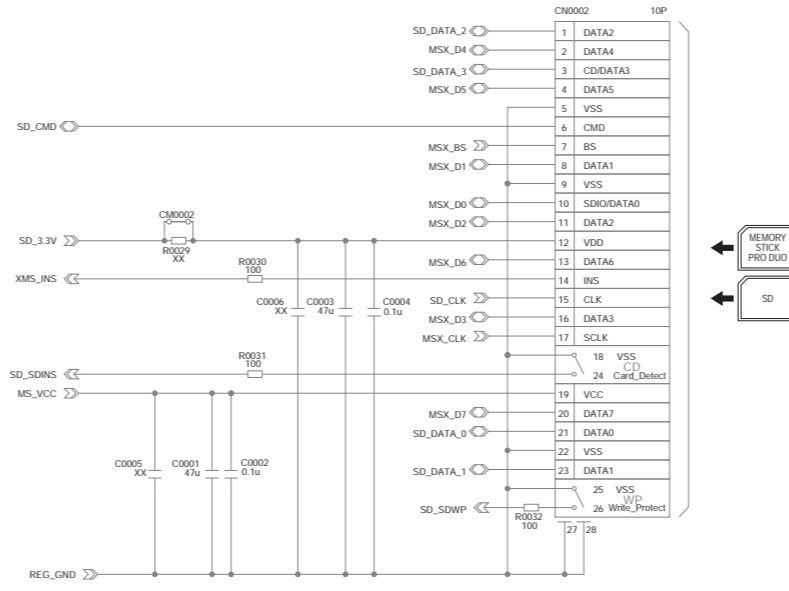
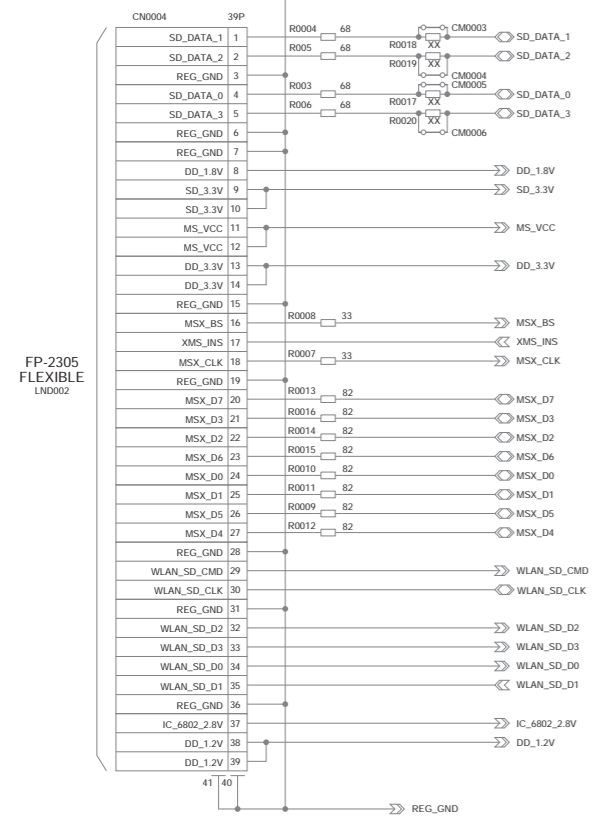
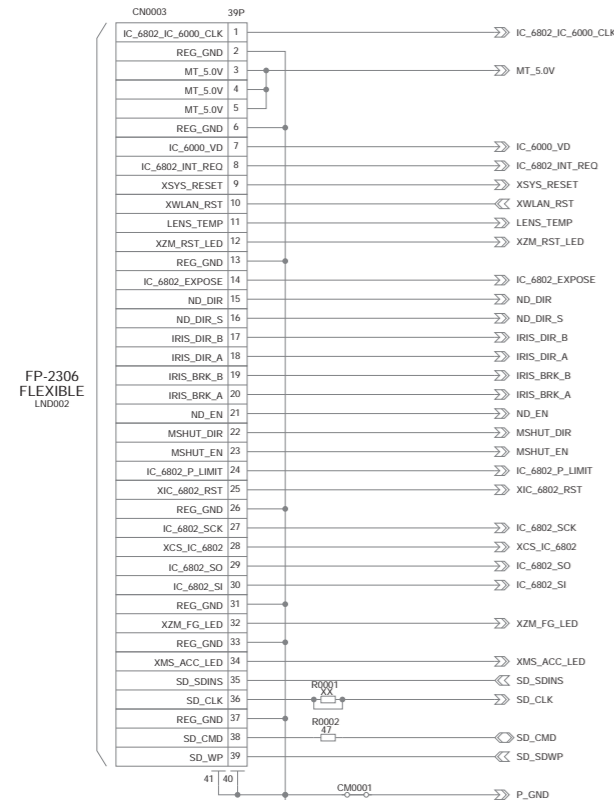
LC-1021

SY-1052  
(2/23)  
CN0203



LC-1021 FLEXIBLE BOARD  
XX MARK: NO MOUNT

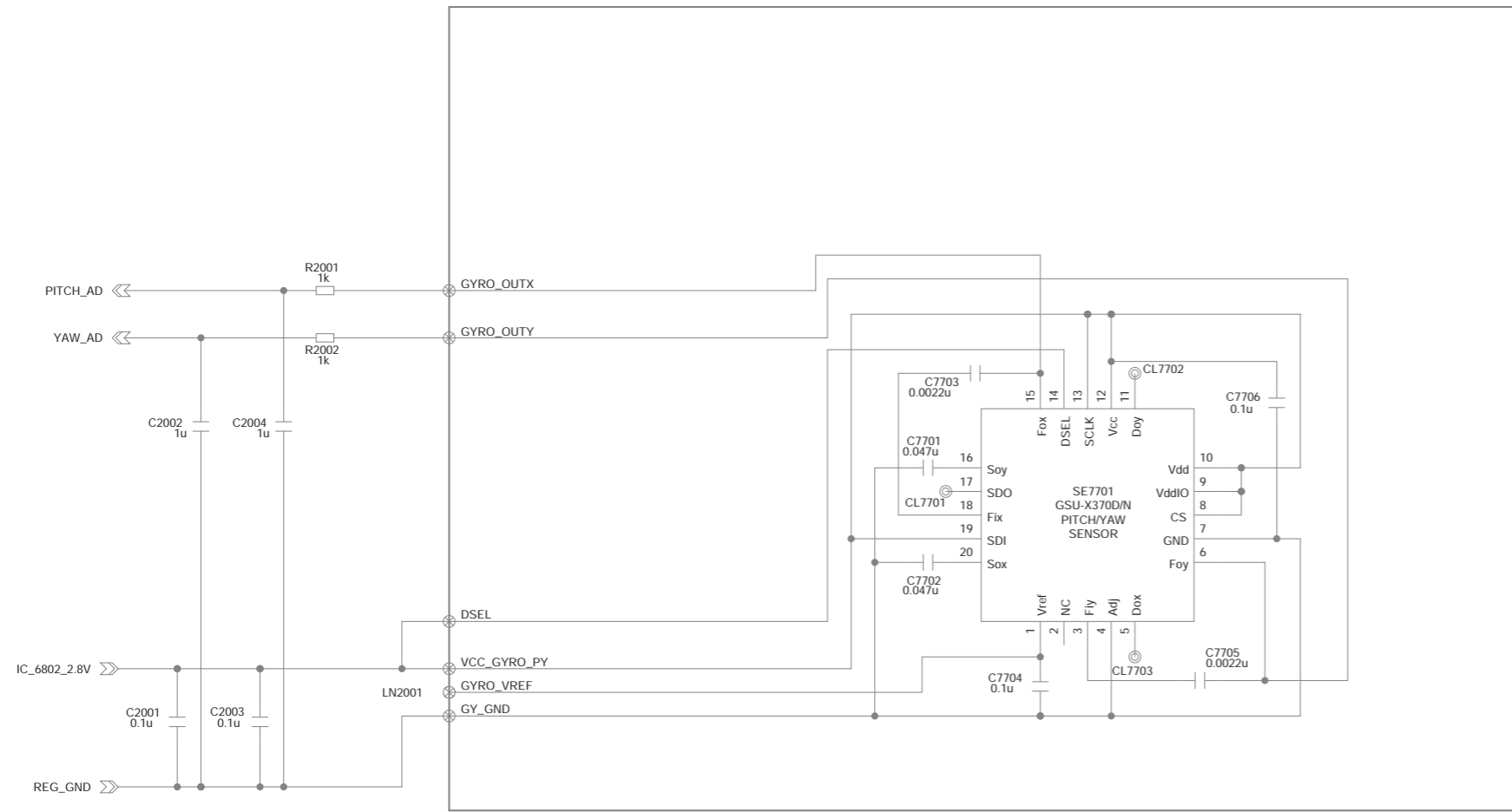
**MS-1028**  
**MS-1028 (1/4)**



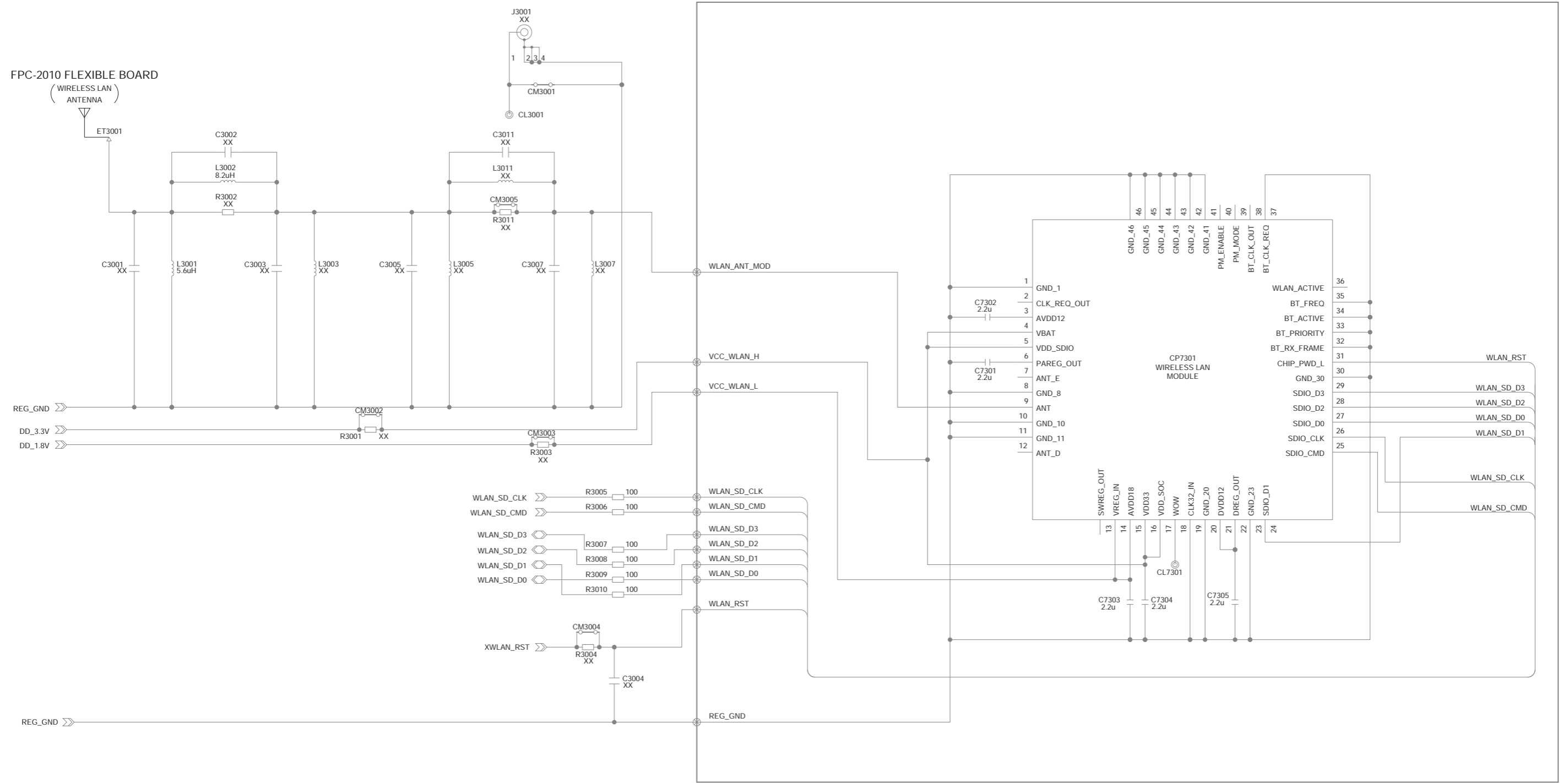
**MS-1028 BOARD (1/4)**  
XX MARK: NO MOUNT



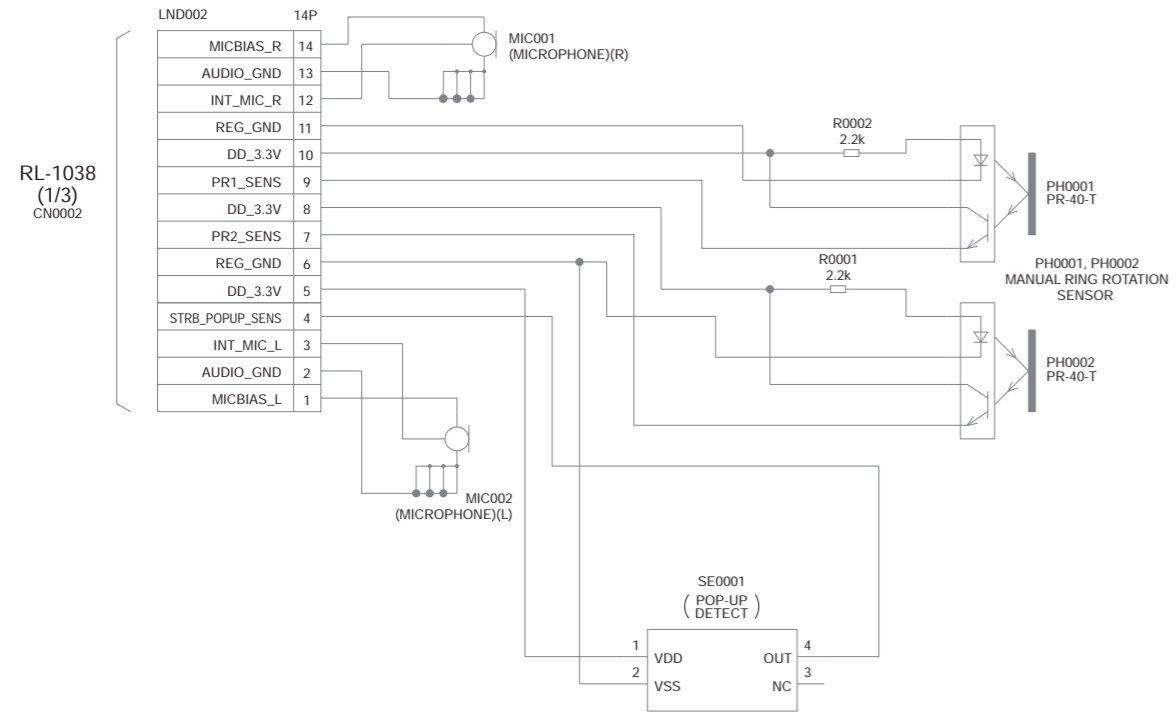
MS-1028 (3/4)



MS-1028 BOARD (3/4)



# RL-1028

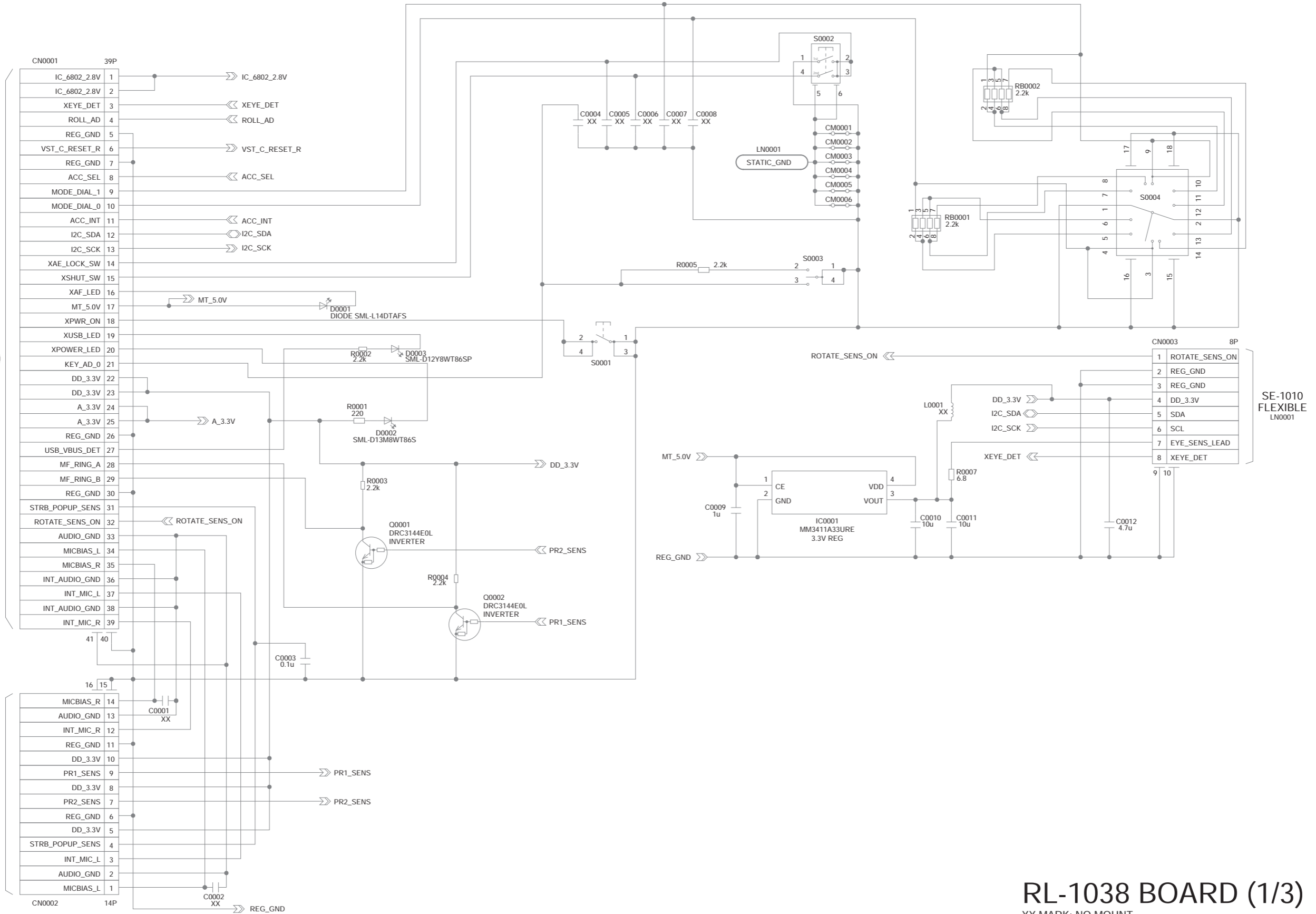


## RL-1028 FLEXIBLE BOARD

**RL-1038**  
**RL-1038 (1/3)**

SY-1052  
 (1/23)  
 CN0101  
 Through the  
 FP-2311  
 FLEXIBLE BOARD

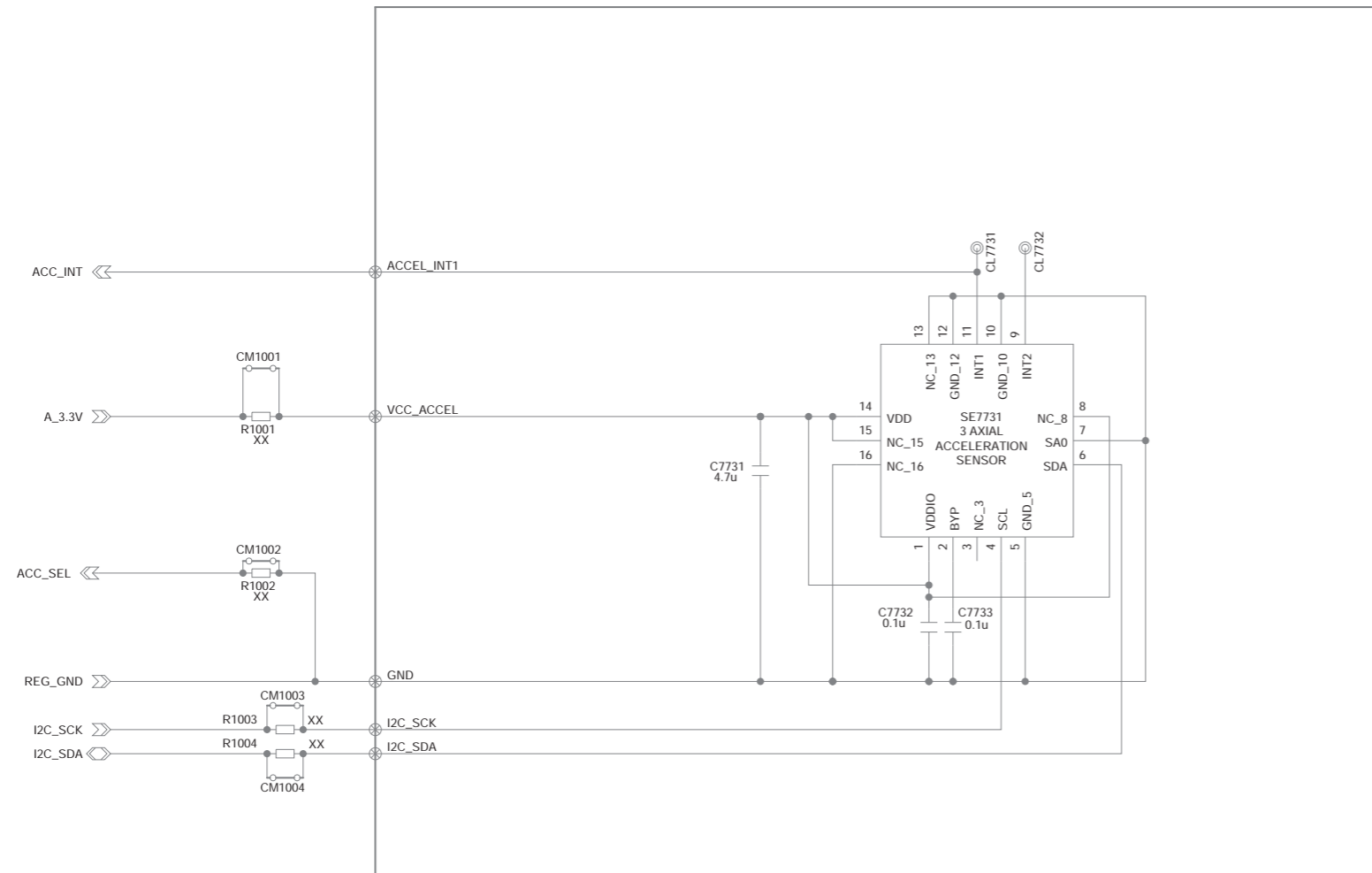
RL-1028  
 FLEXIBLE  
 LND002



**RL-1038 BOARD (1/3)**  
 XX MARK: NO MOUNT



RL-1038 (2/3)

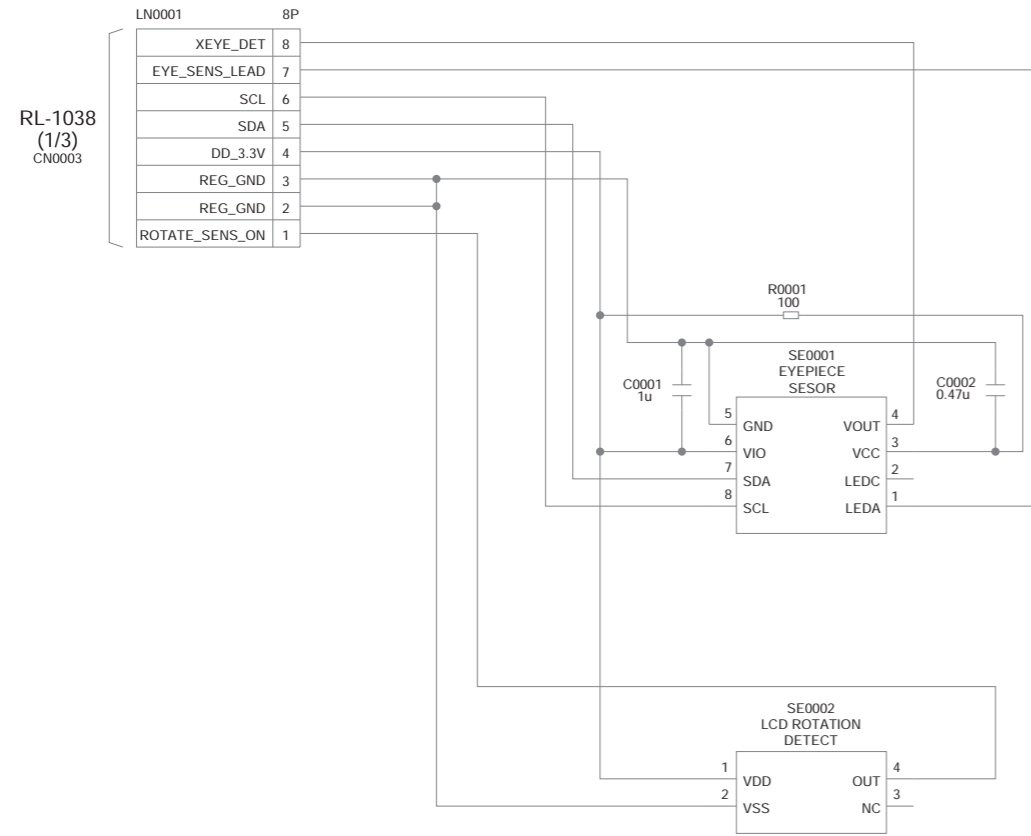


RL-1038 BOARD (2/3)

XX MARK: NO MOUNT



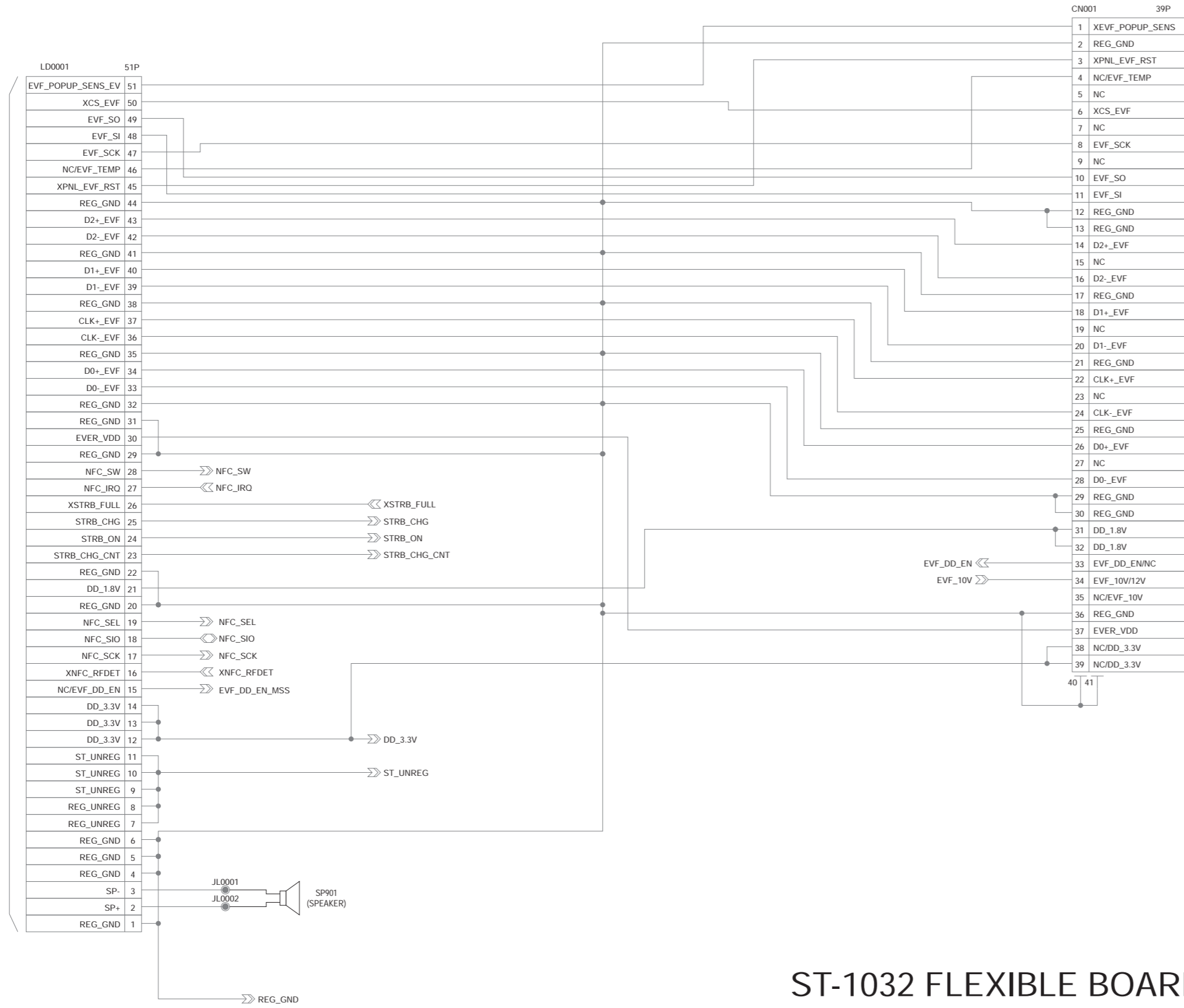
# SE-1010



## SE-1010 FLEXIBLE BOARD

**ST-1032**  
**ST-1032 (1/4)**

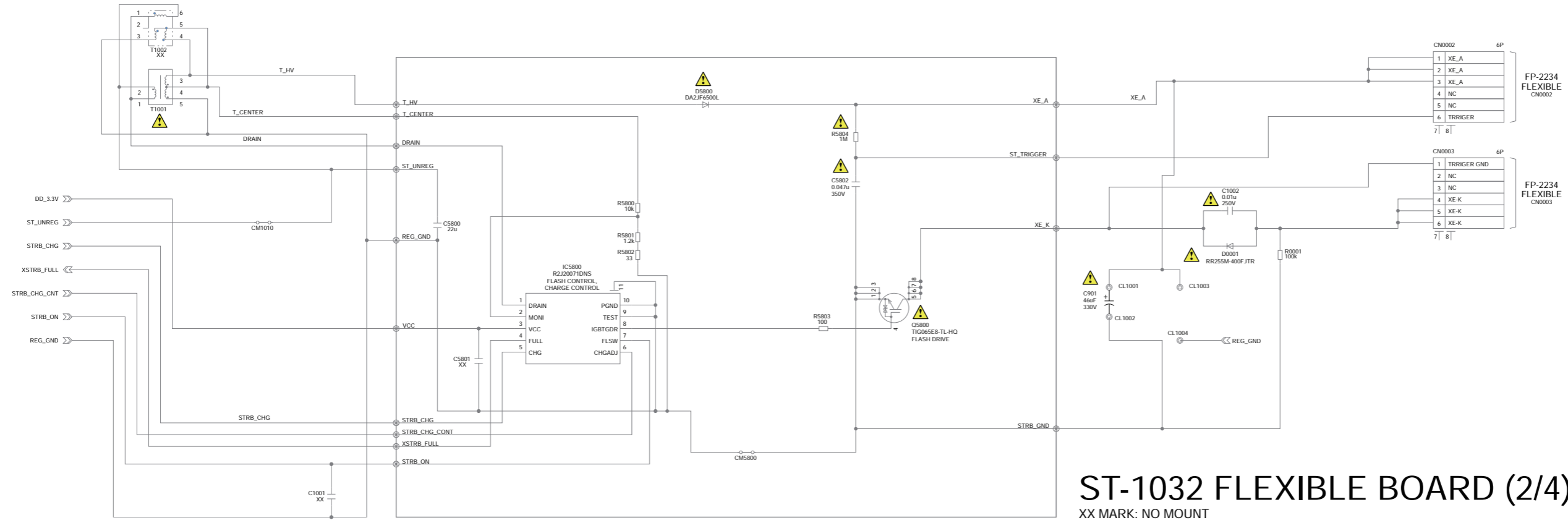
SY-1052  
(2/23)  
CN0201

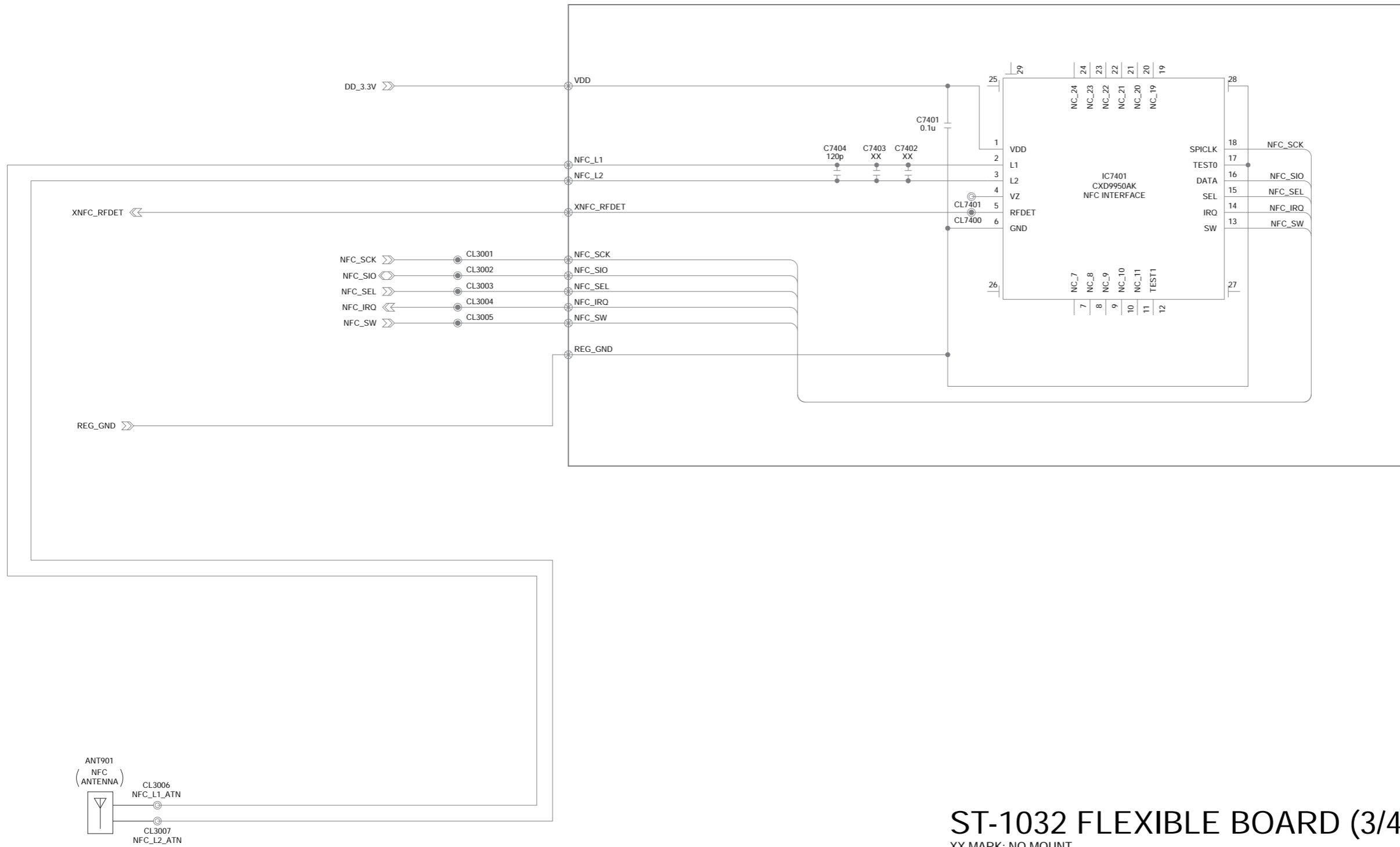


FP-2351  
FLEXIBLE  
LND001

**ST-1032 FLEXIBLE BOARD (1/4)**

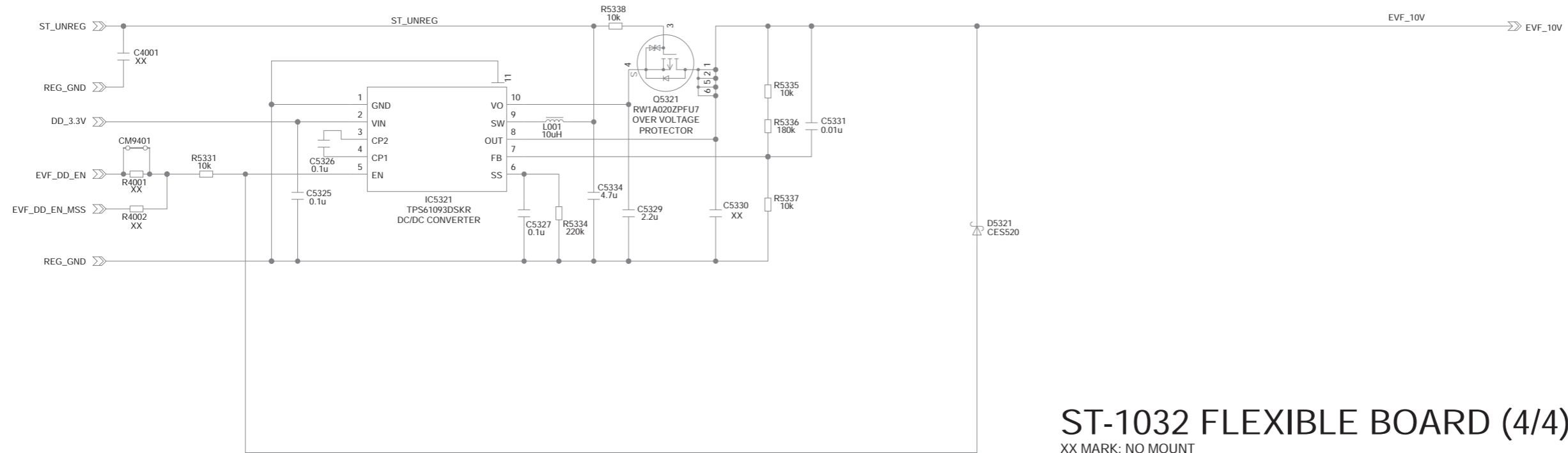
ST-1032 (2/4)





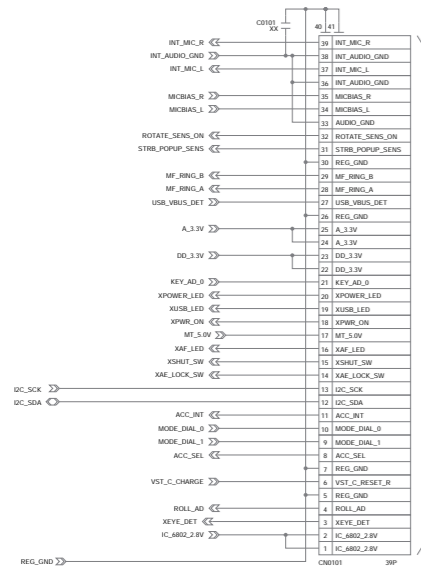
ST-1032 FLEXIBLE BOARD (3/4)  
XX MARK: NO MOUNT

# ST-1032 (4/4)

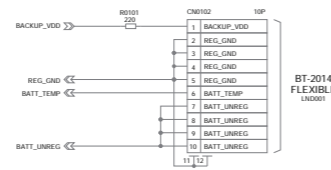


# ST-1032 FLEXIBLE BOARD (4/4)

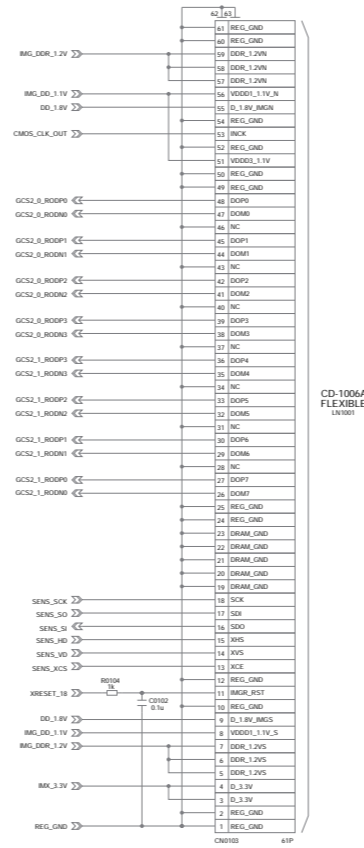
# SY-1052 SY-1052 (1/23)



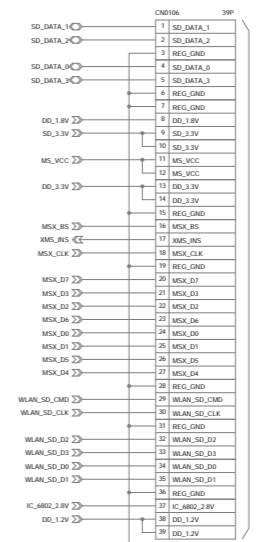
RL-1038  
(1/3)  
CN001  
through FR  
FR 2111  
FLEXIBLE BOARD



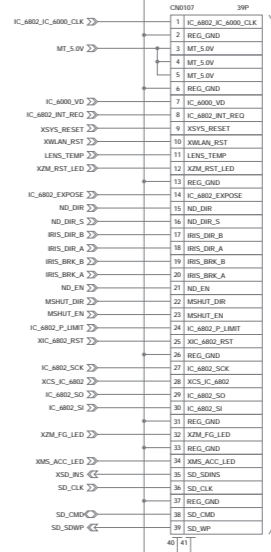
BT-2014  
FLEXIBLE  
LMD001



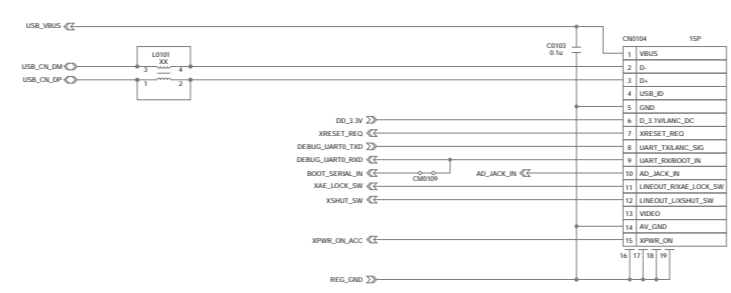
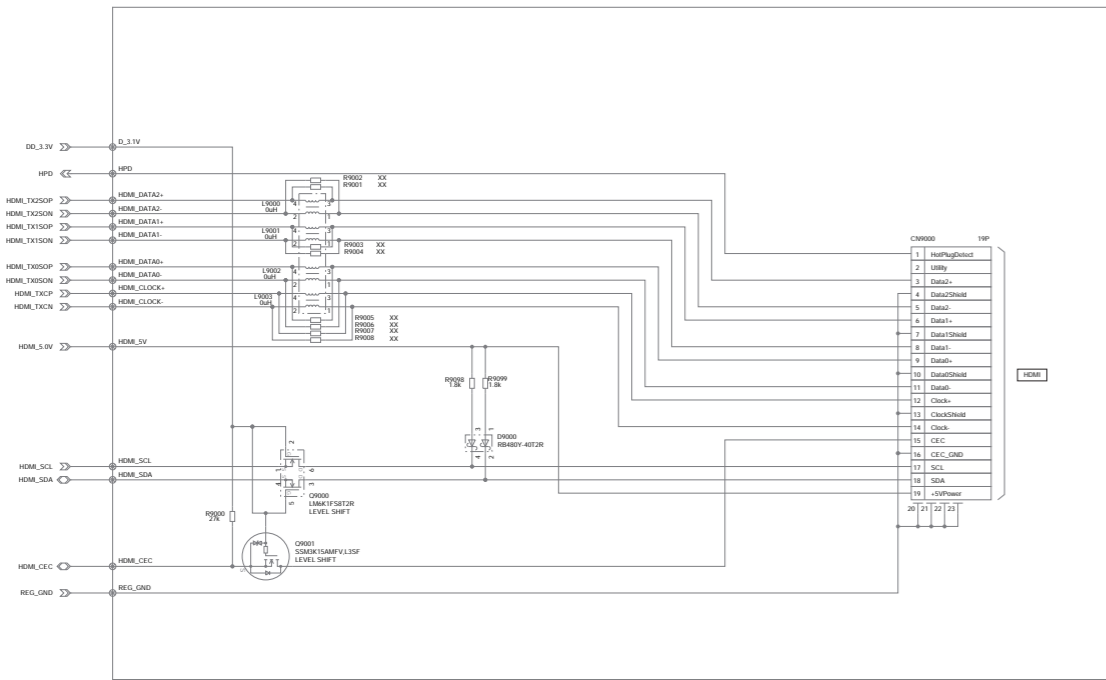
CD-1006A  
FLEXIBLE  
LMD001



FP-2305  
FLEXIBLE  
LMD001



FP-2306  
FLEXIBLE  
LMD001

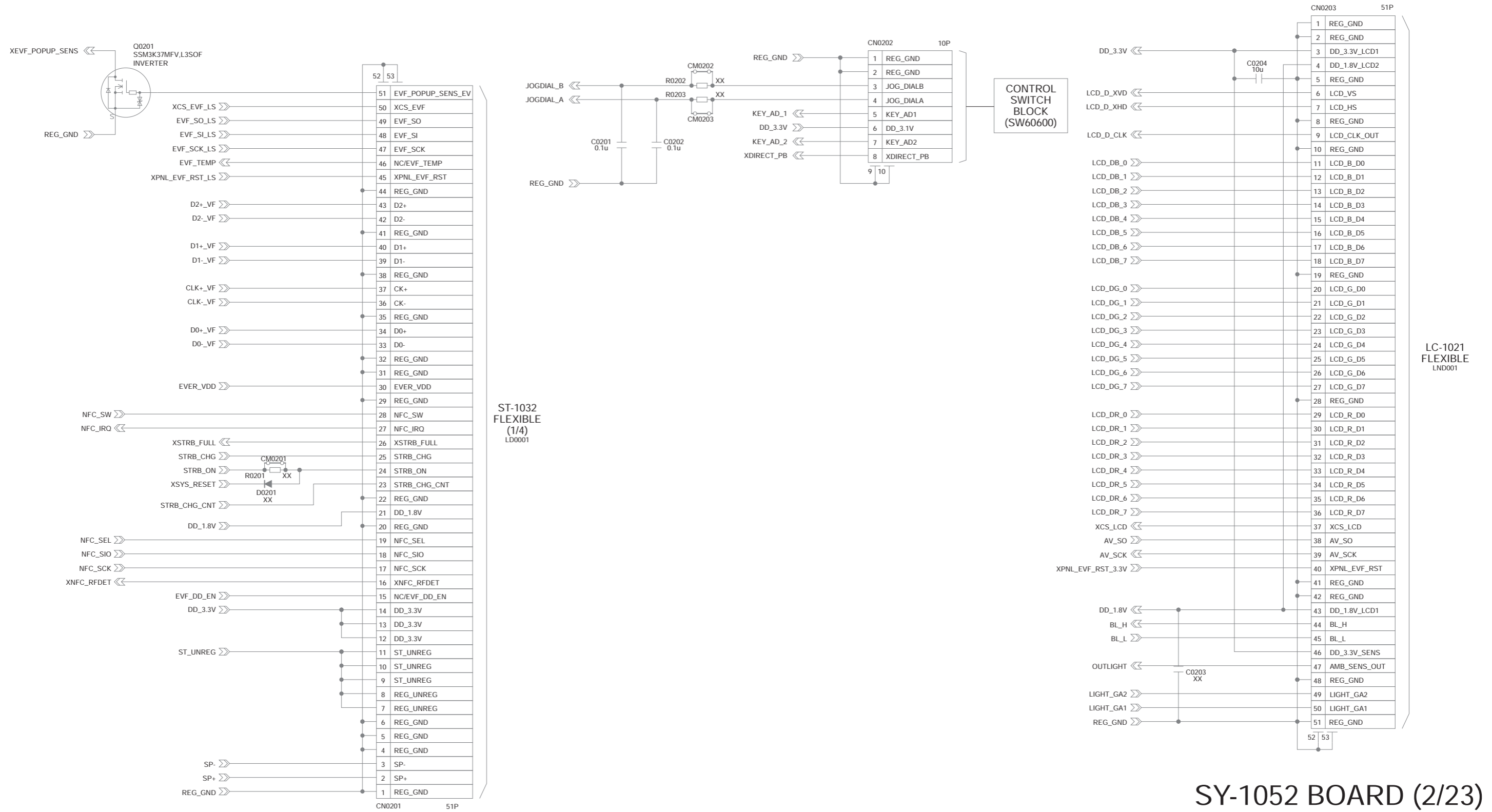


# SY-1052 BOARD (1/23)

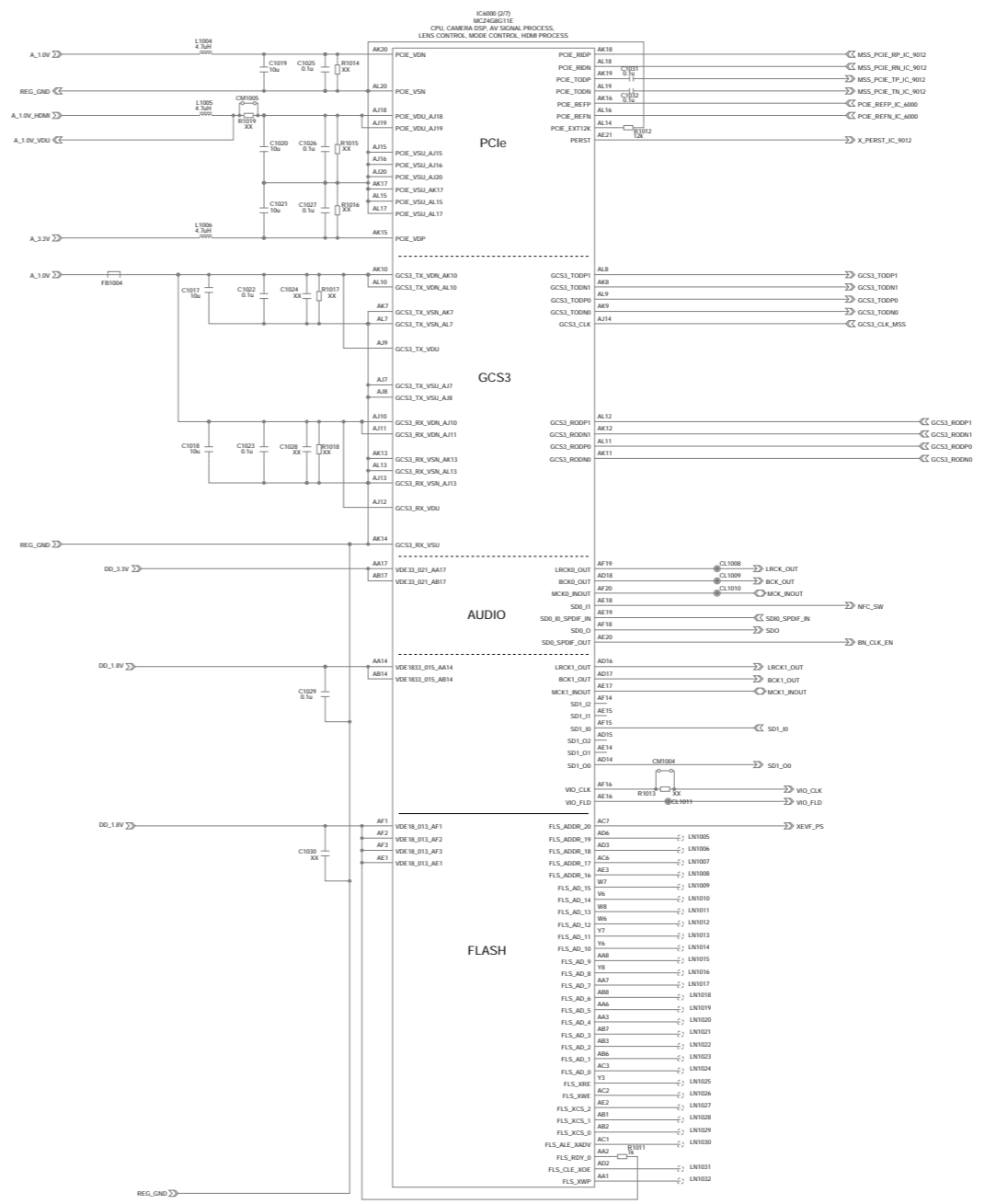
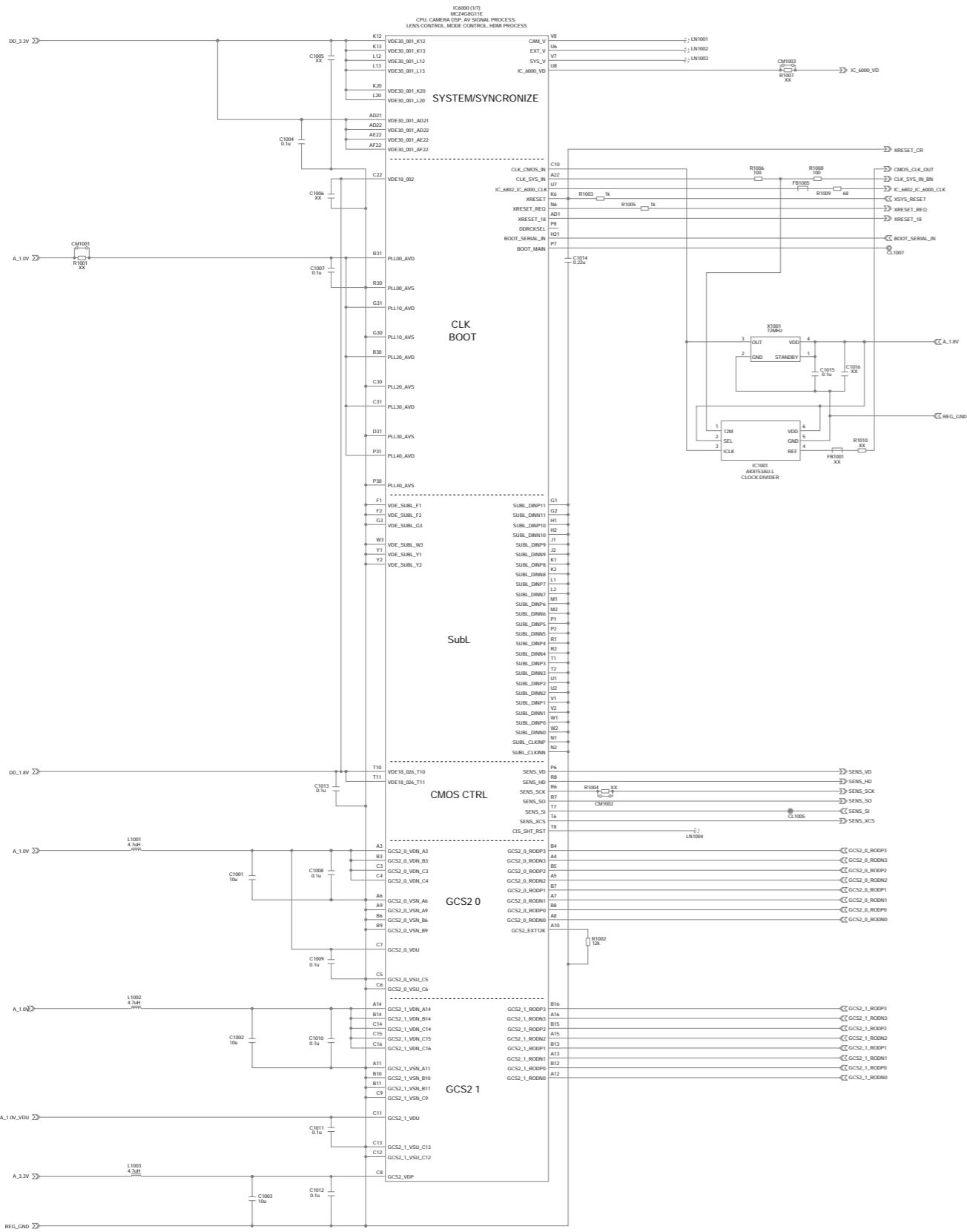
XX MARK: NO MOUNT



SY-1052 (2/23)

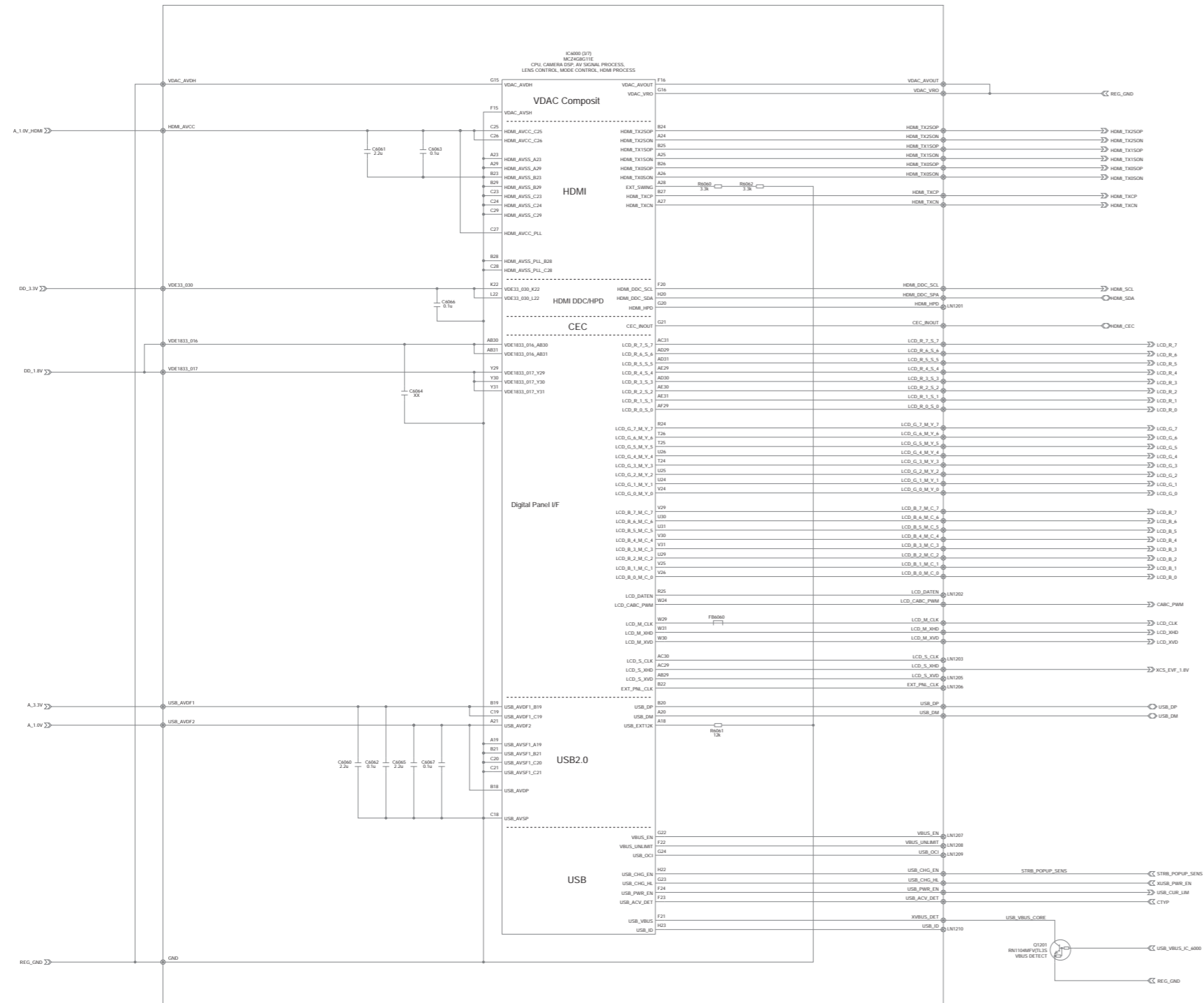


SY-1052 BOARD (2/23)  
XX MARK: NO MOUNT

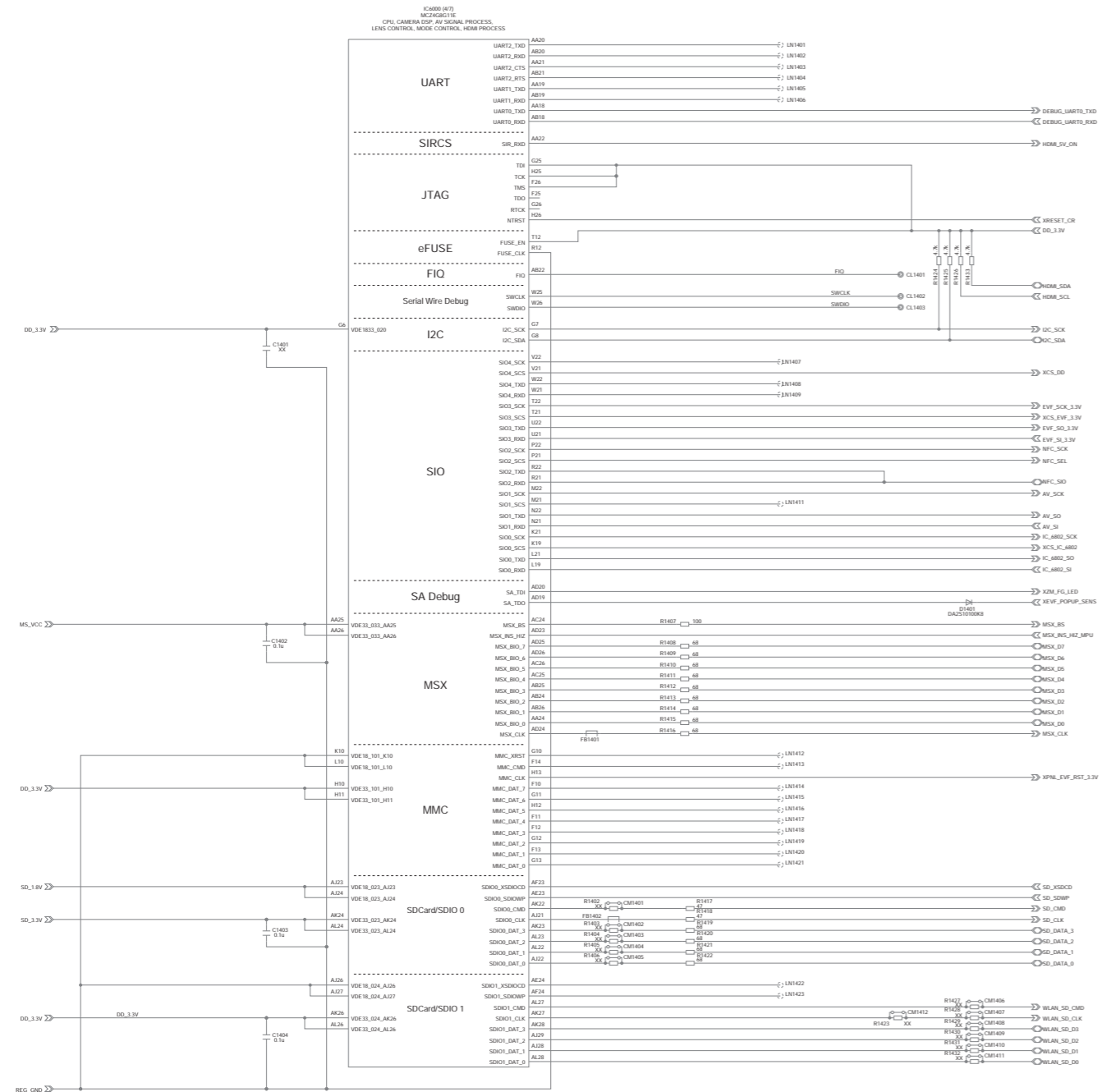


# SY-1052 BOARD (3/23)

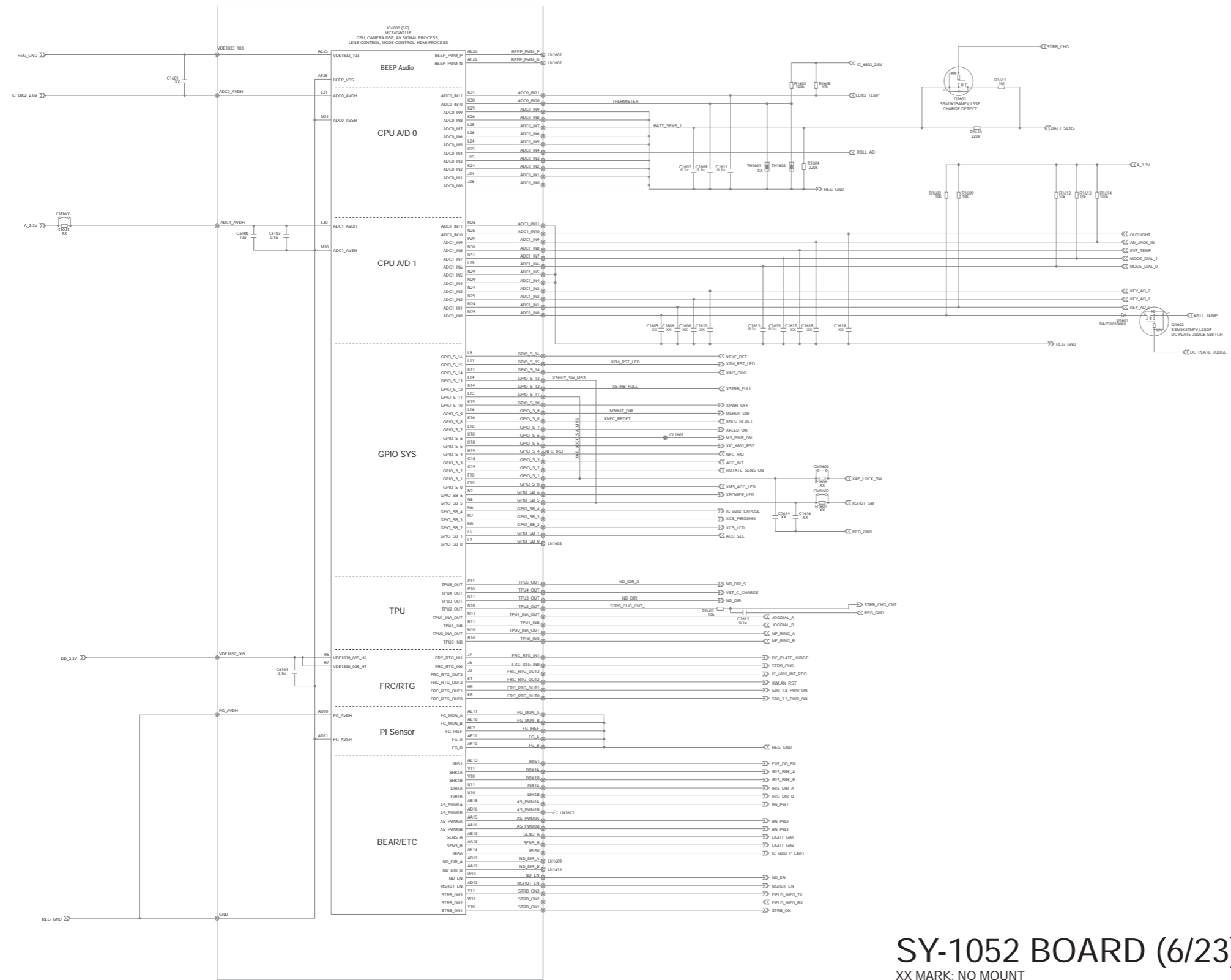
XX MARK: NO MOUNT



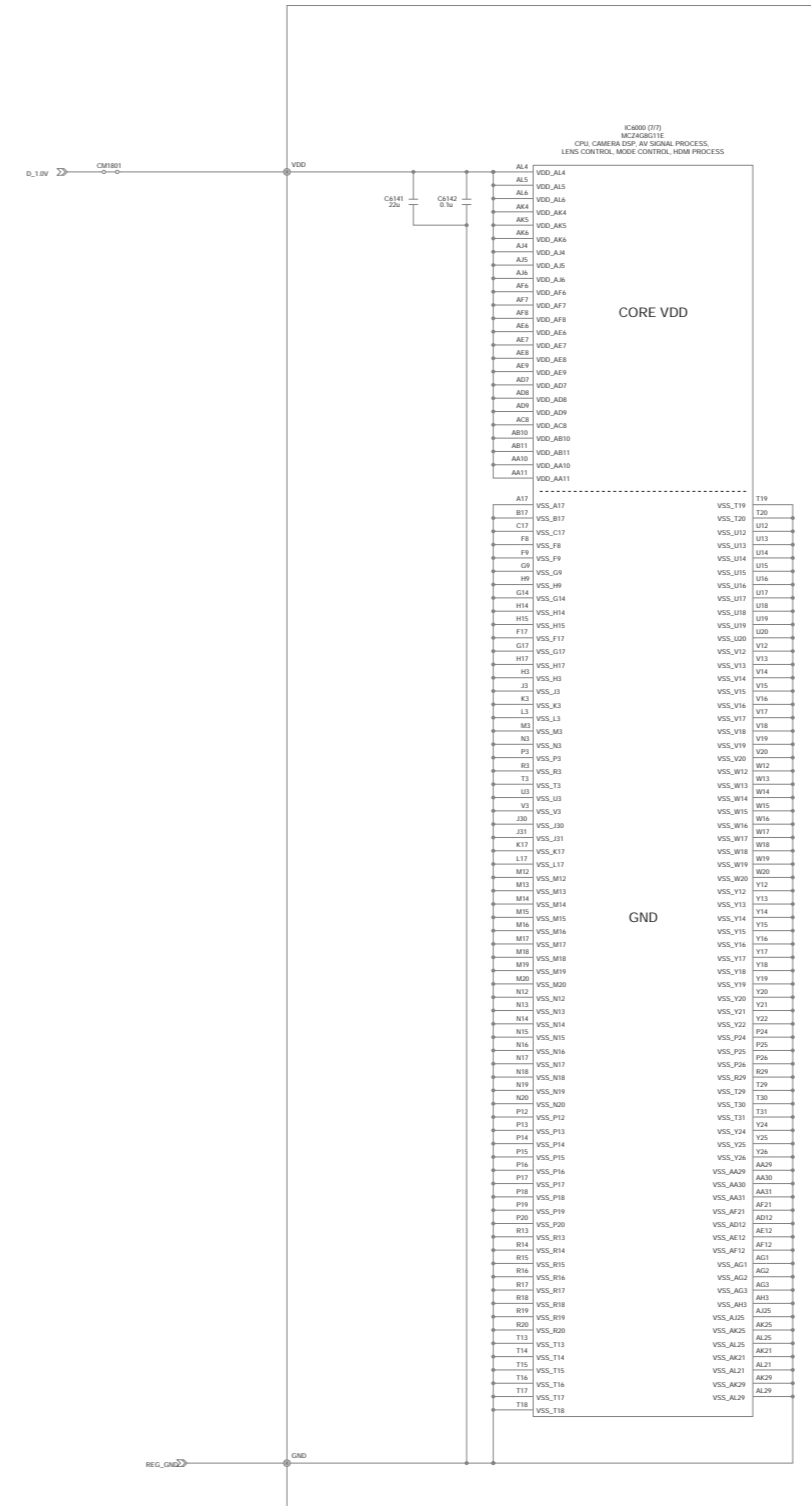
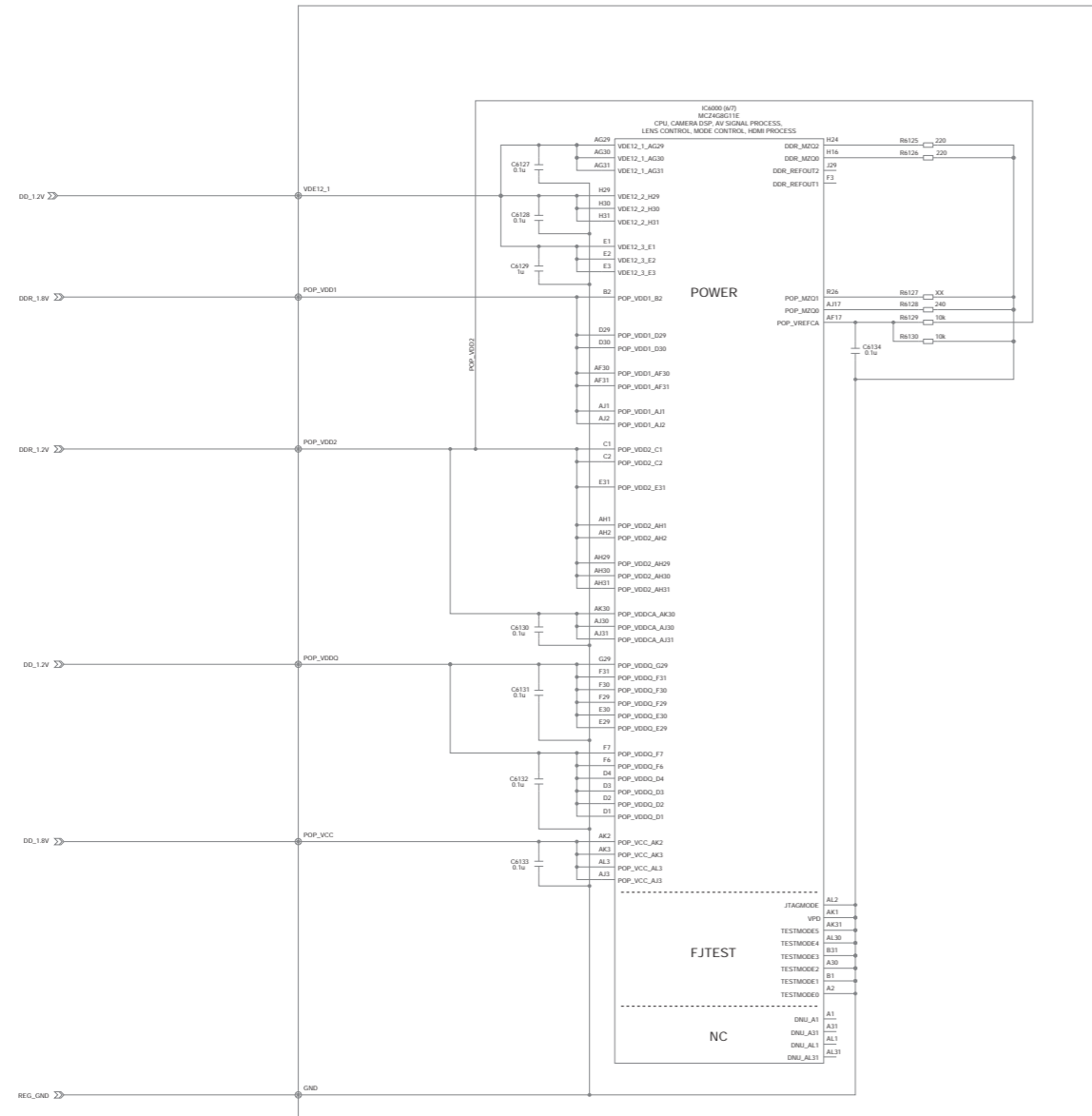
SY-1052 BOARD (4/23)  
XX MARK: NO MOUNT



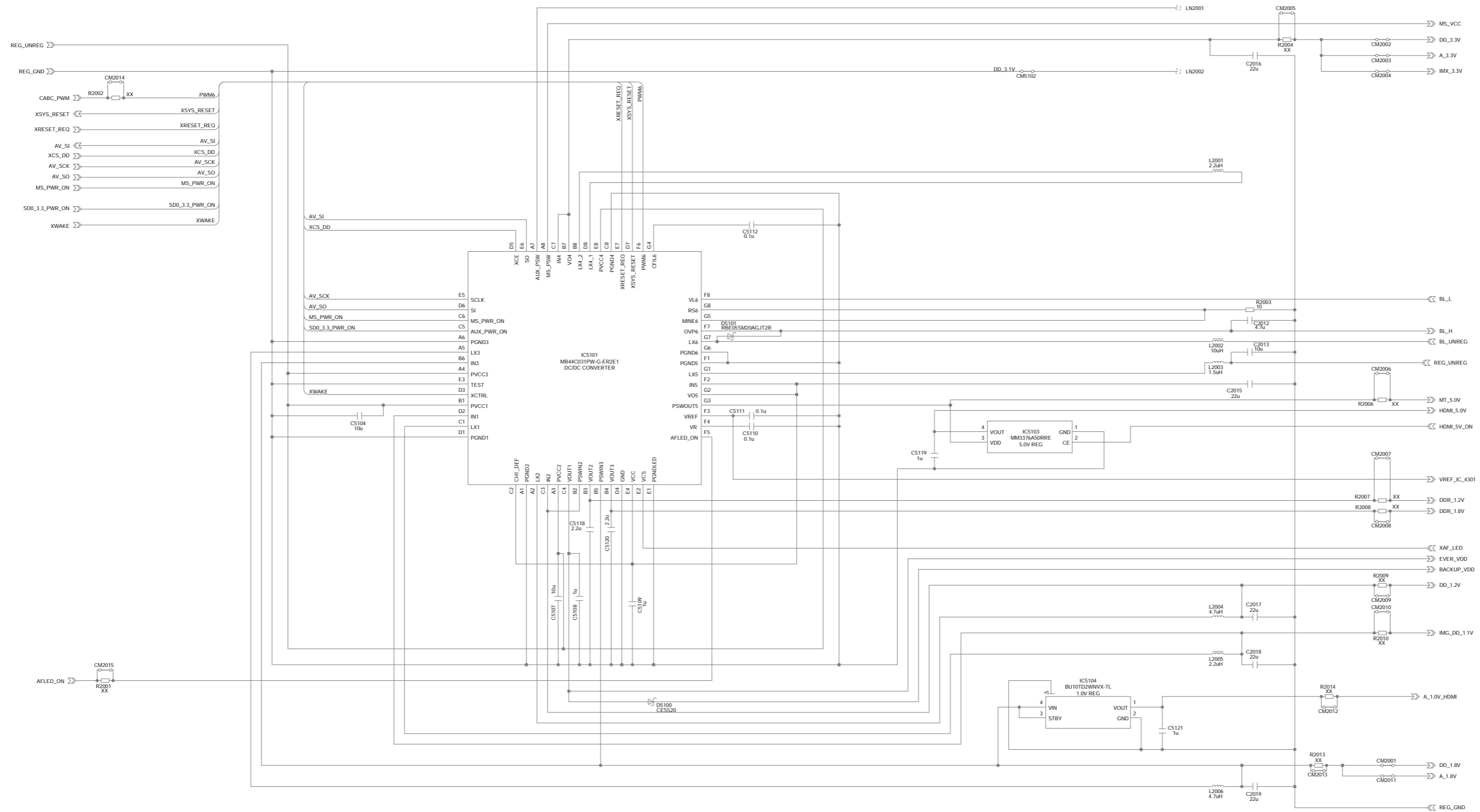
SY-1052 BOARD (5/23)  
XX MARK: NO MOUNT



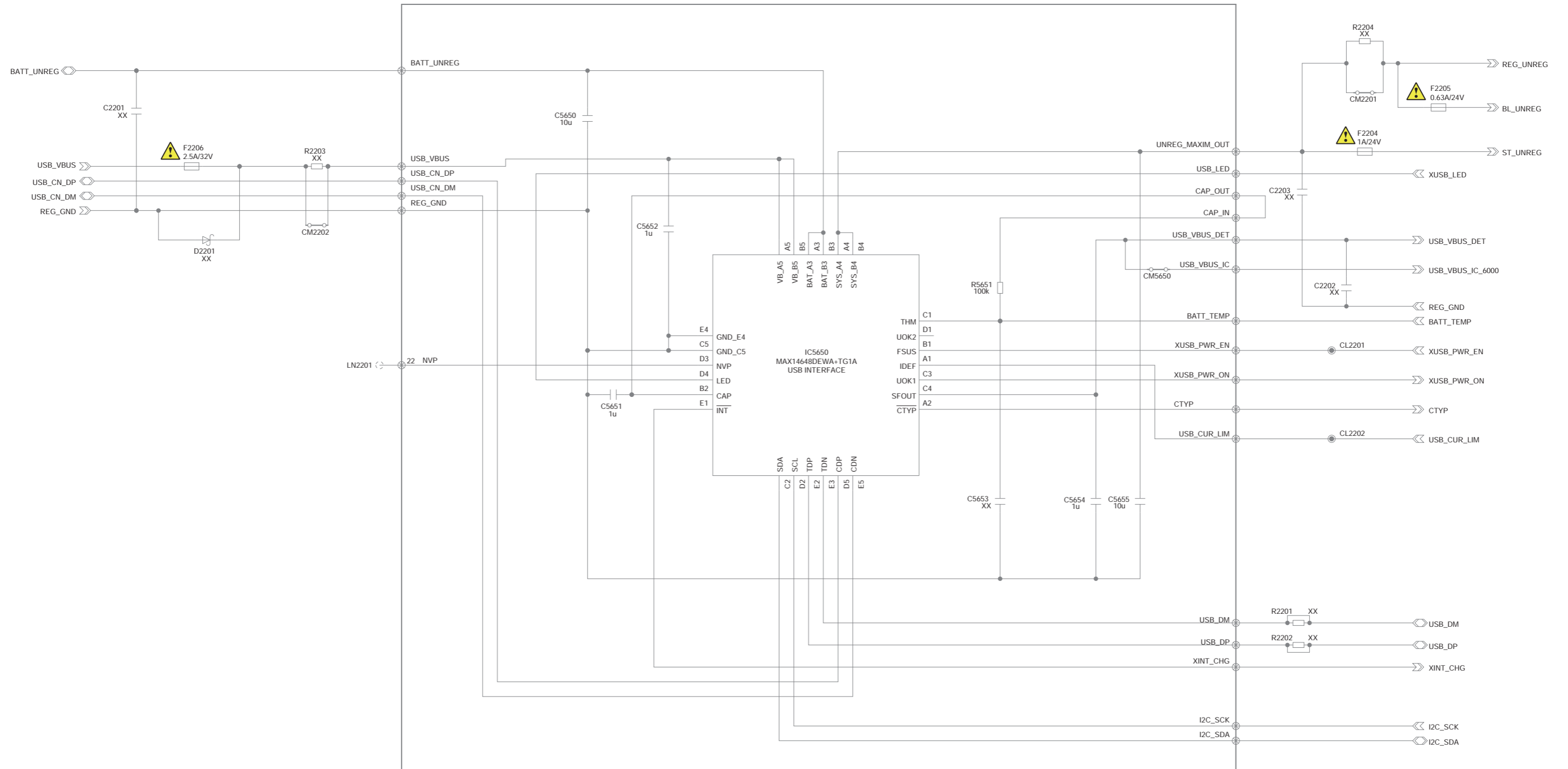
SY-1052 BOARD (6/23)  
XX MARK: NO MOUNT



SY-1052 BOARD (7/23)  
XX MARK: NO MOUNT



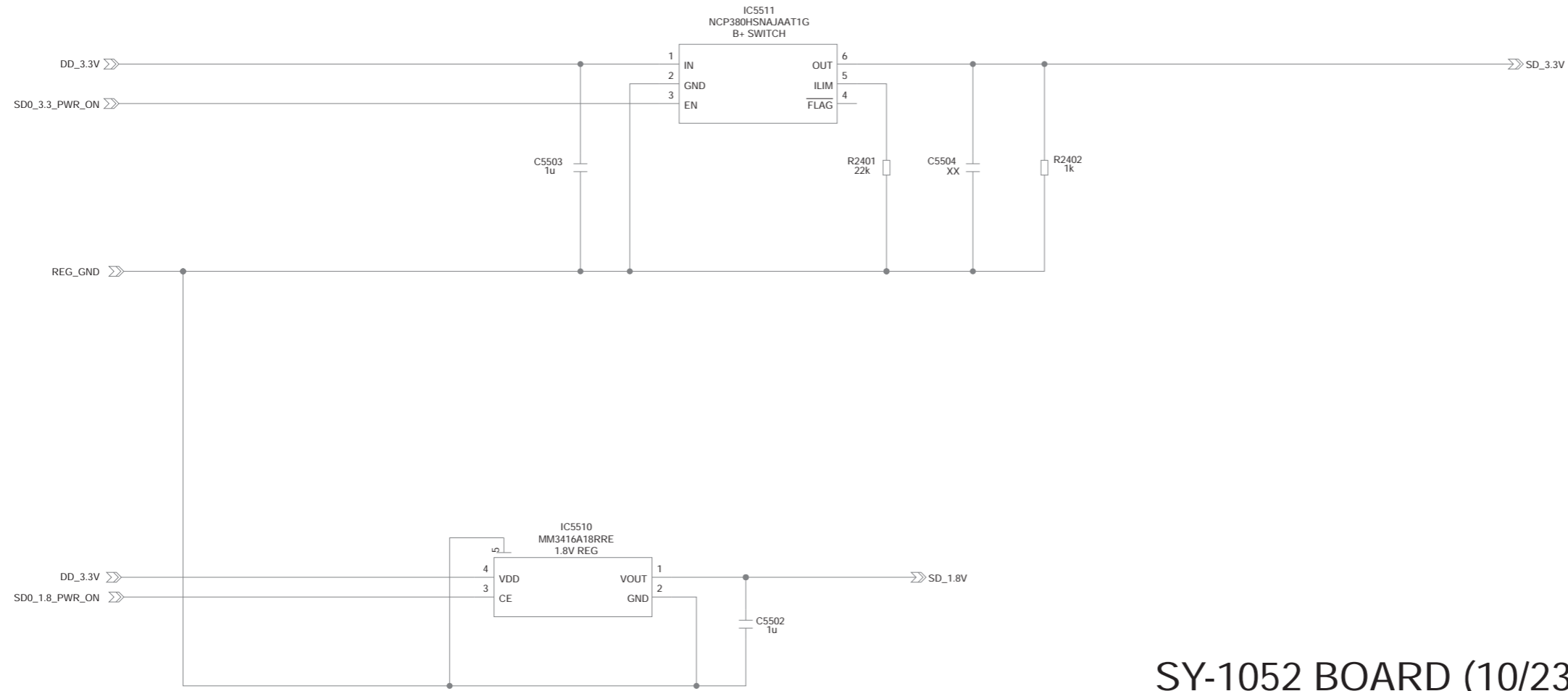
SY-1052 BOARD (8/23)  
XX MARK: NO MOUNT



SY-1052 BOARD (9/23)  
XX MARK: NO MOUNT

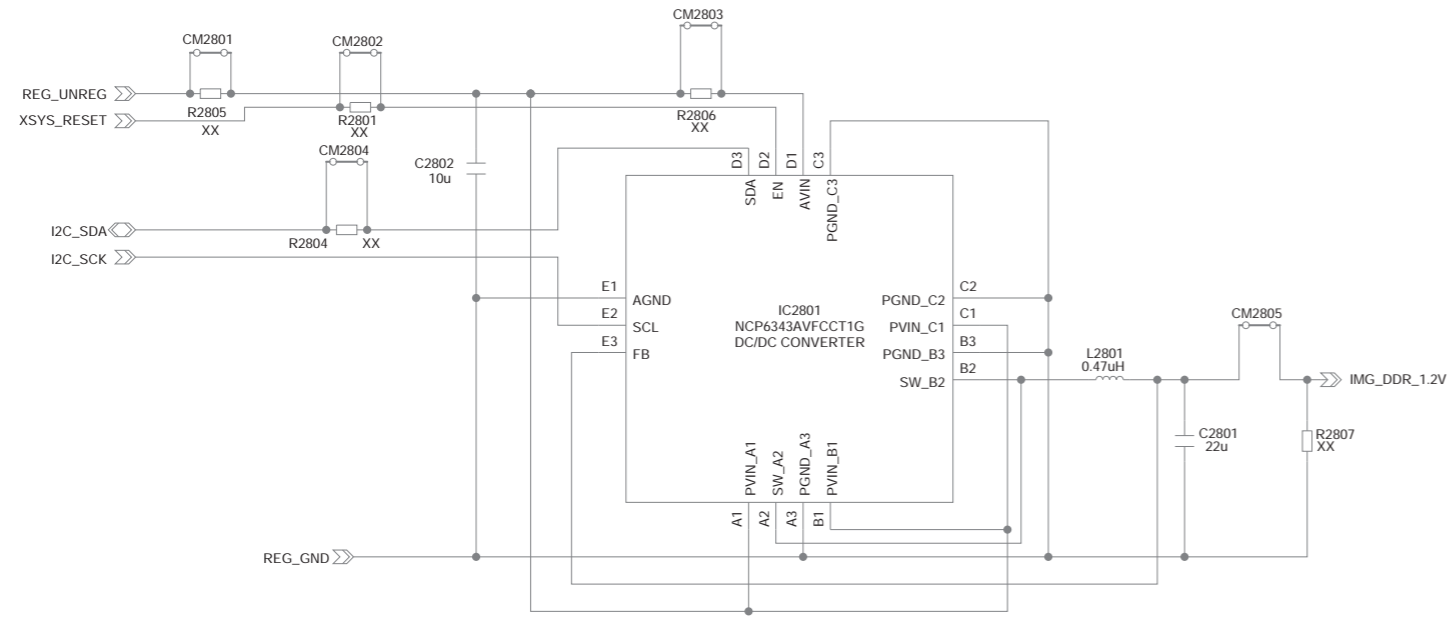


SY-1052 (10/23)



SY-1052 BOARD (10/23)  
XX MARK: NO MOUNT

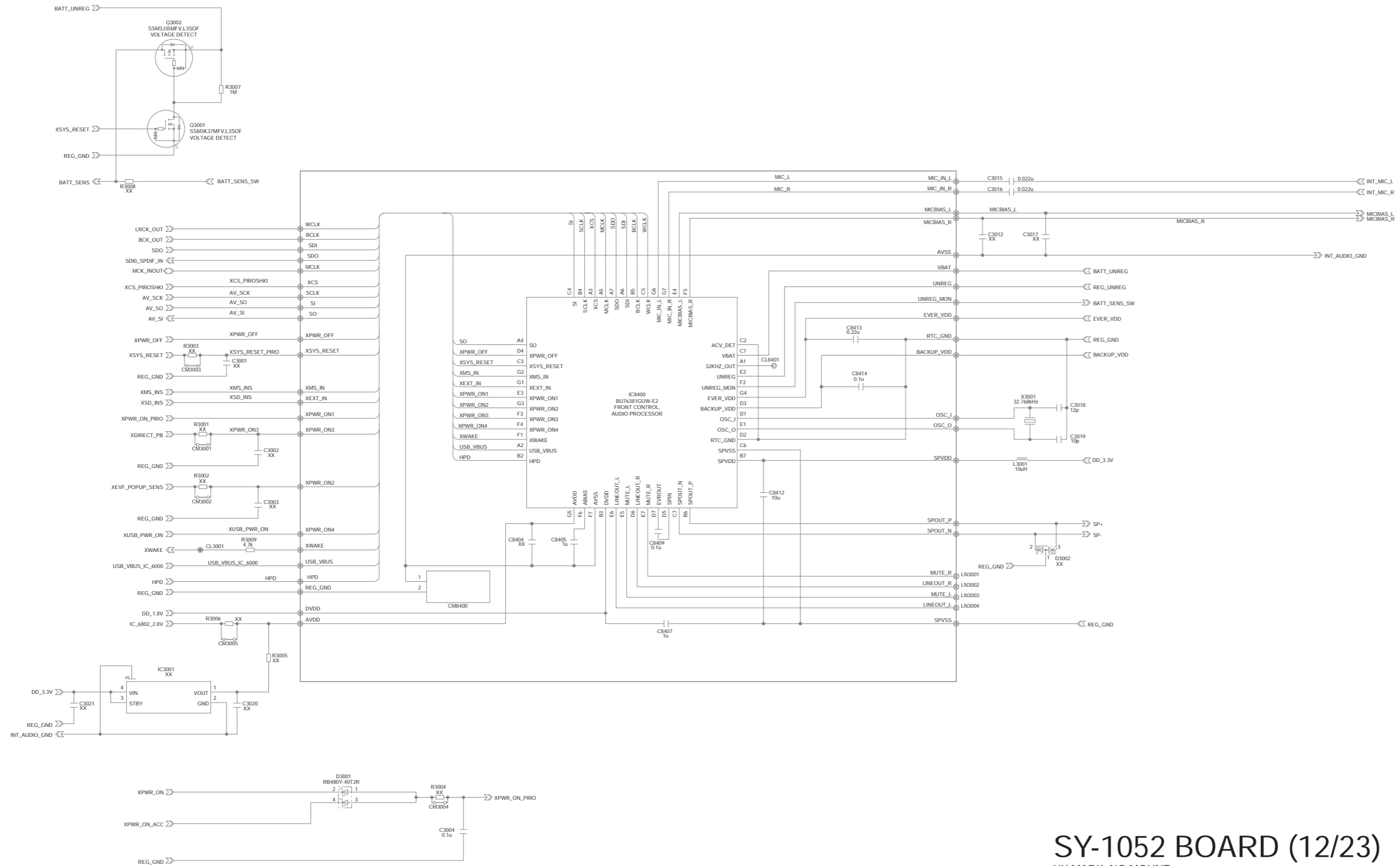
SY-1052 (11/23)



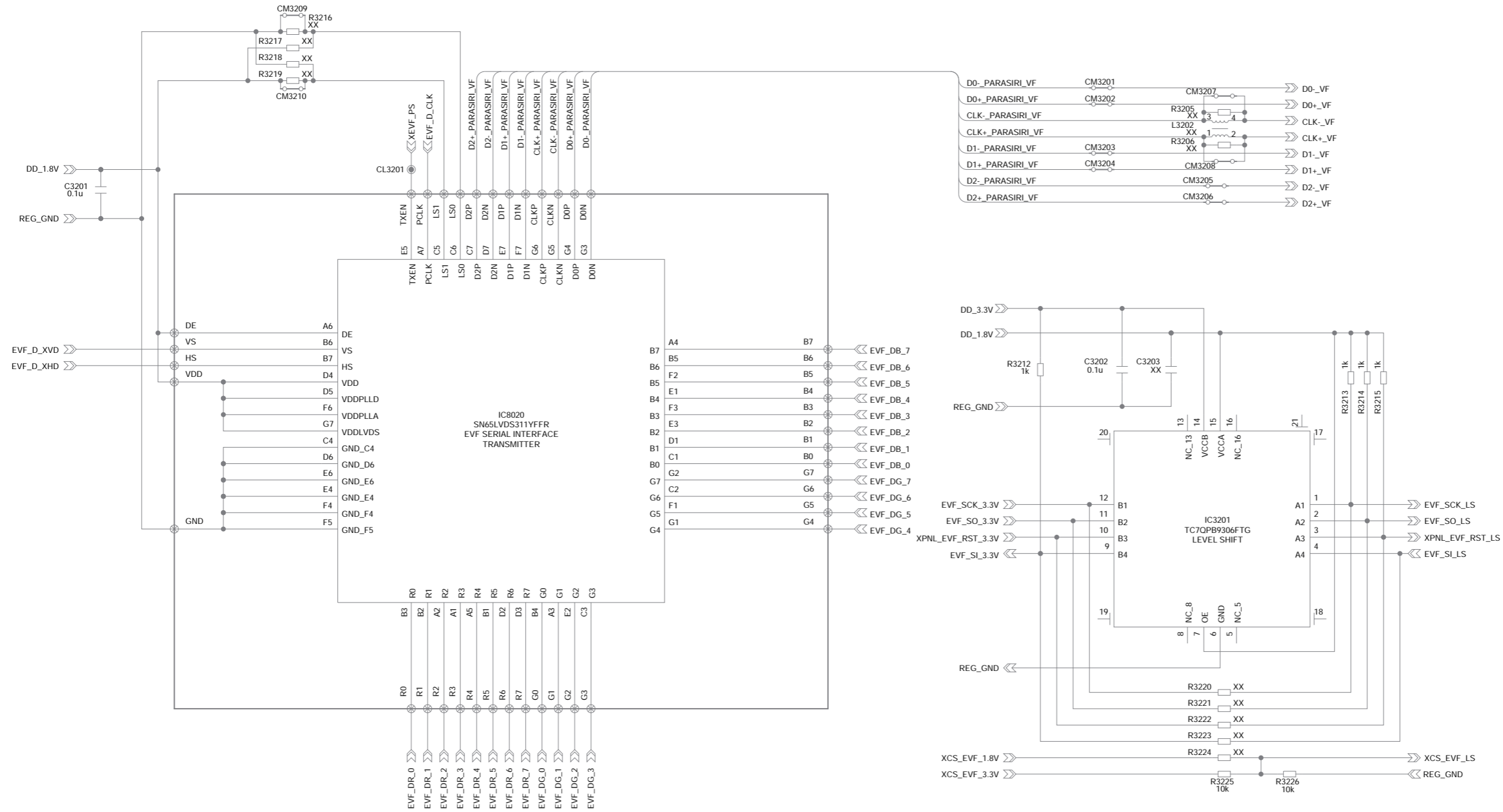
SY-1052 BOARD (11/23)

XX MARK: NO MOUNT

SY-1052 (12/23)



SY-1052 BOARD (12/23)  
XX MARK: NO MOUNT



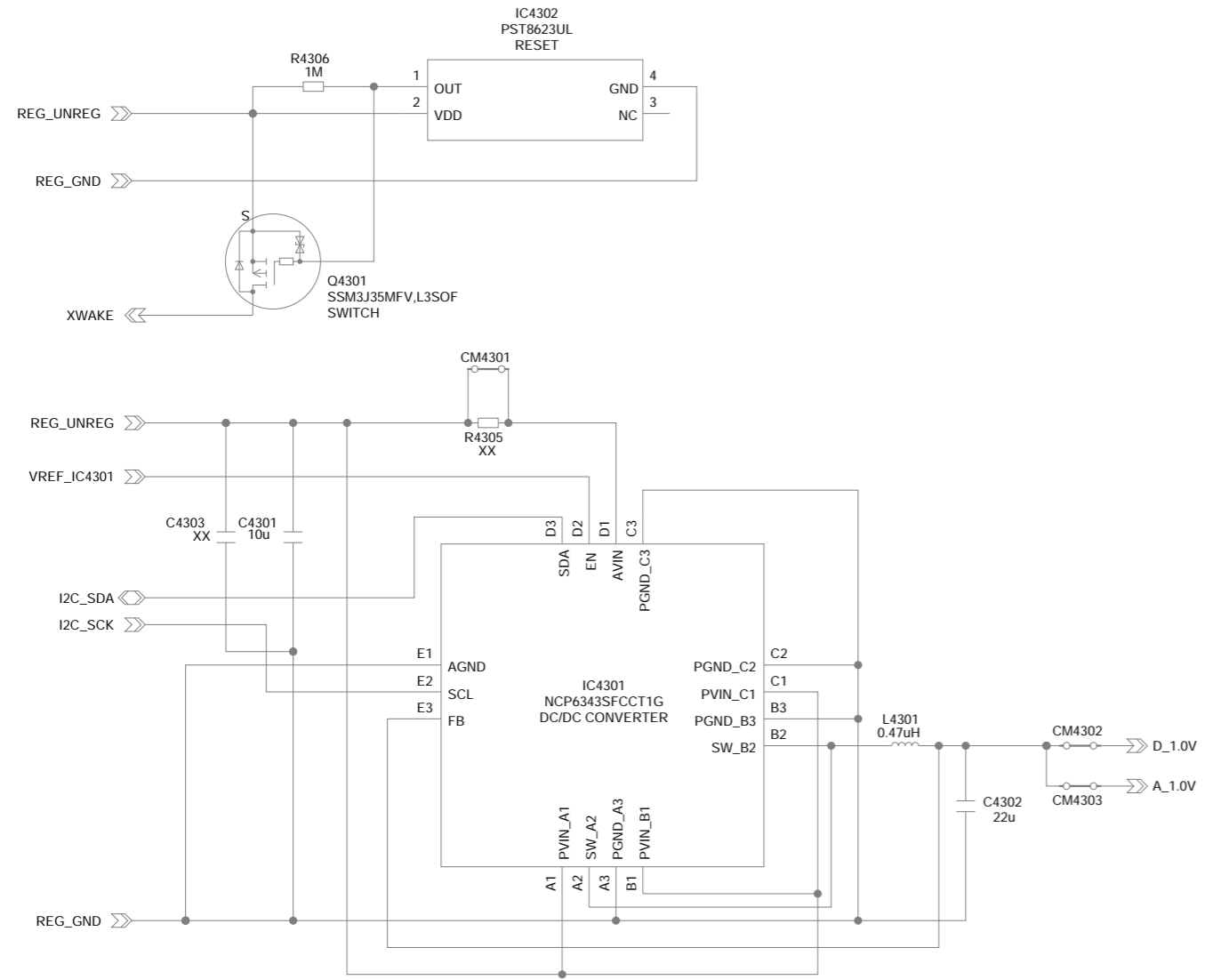
SY-1052 BOARD (13/23)  
XX MARK: NO MOUNT

SY-1052 (14/23)



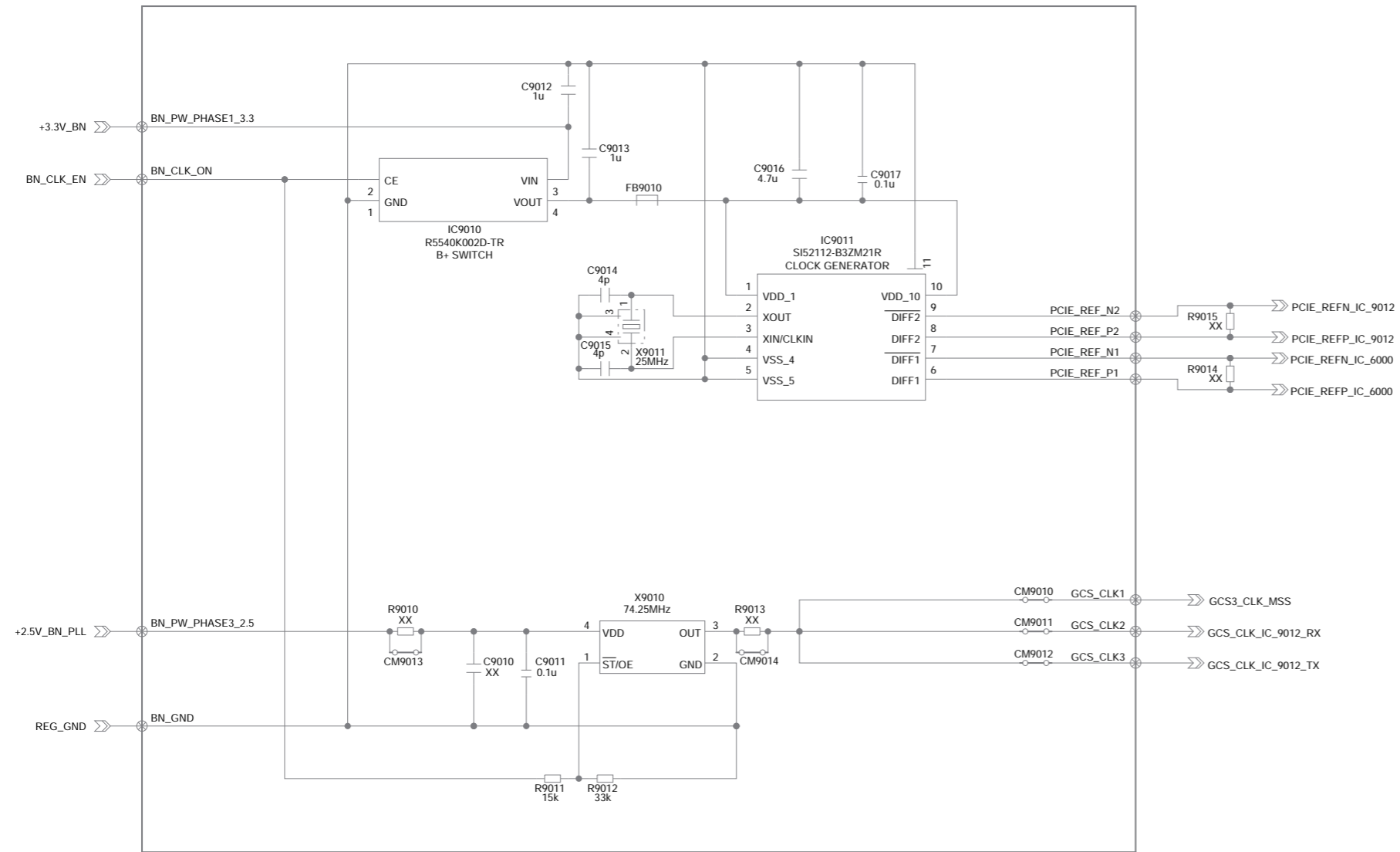
SY-1052 BOARD (14/23)  
XX MARK: NO MOUNT

SY-1052 (15/23)



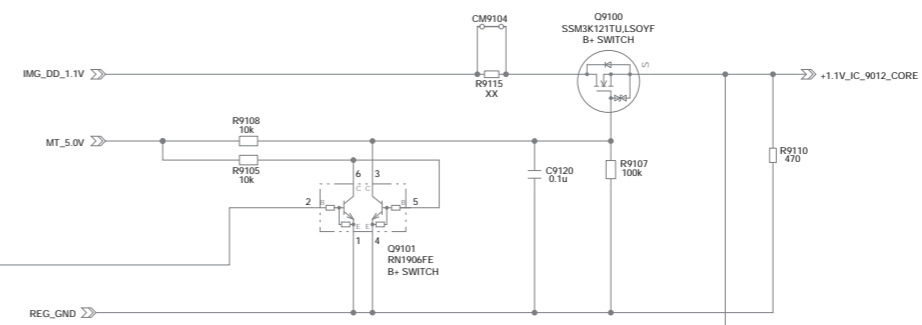
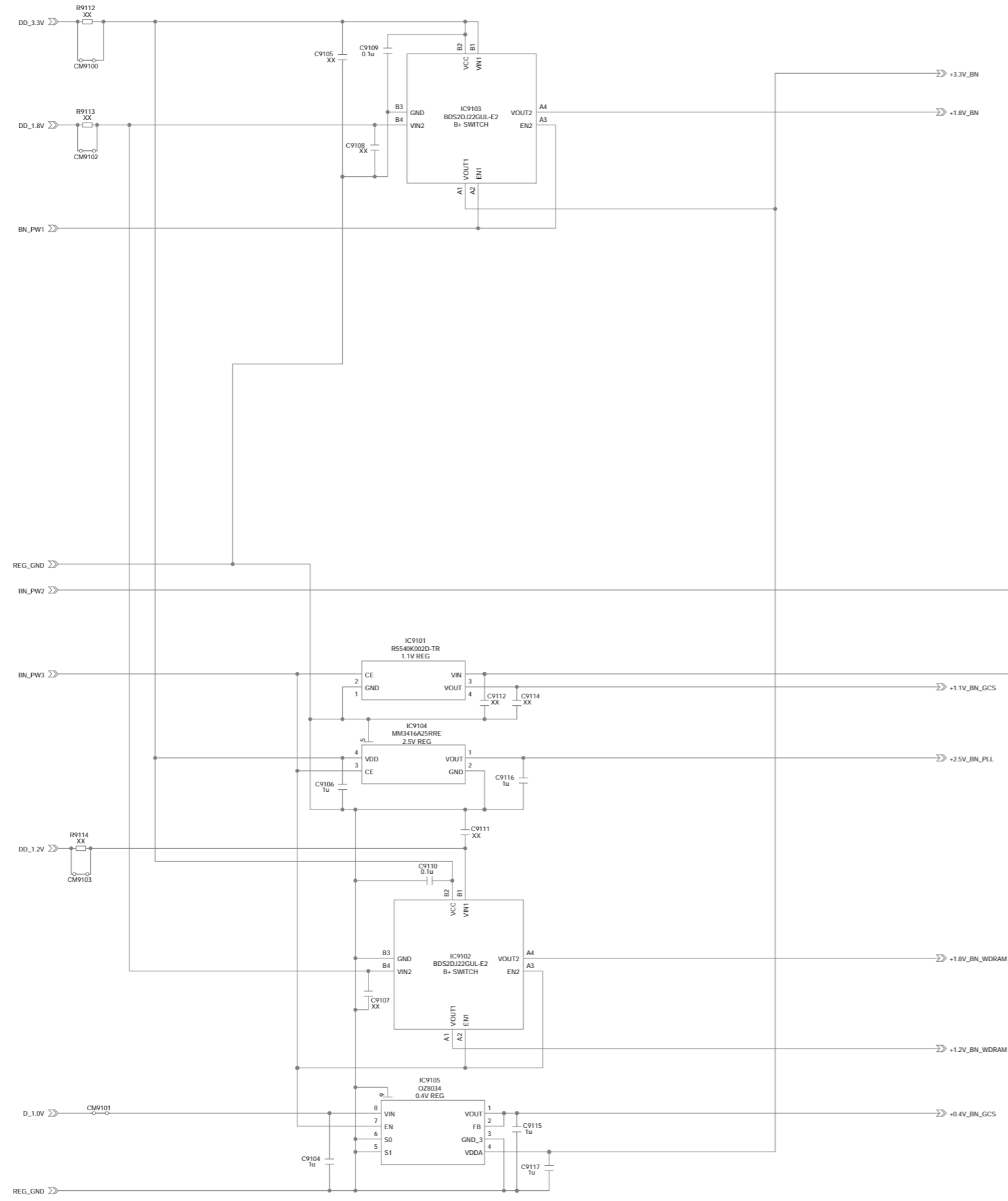
SY-1052 BOARD (15/23)  
XX MARK: NO MOUNT

SY-1052 (16/23)



SY-1052 BOARD (16/23)  
XX MARK: NO MOUNT

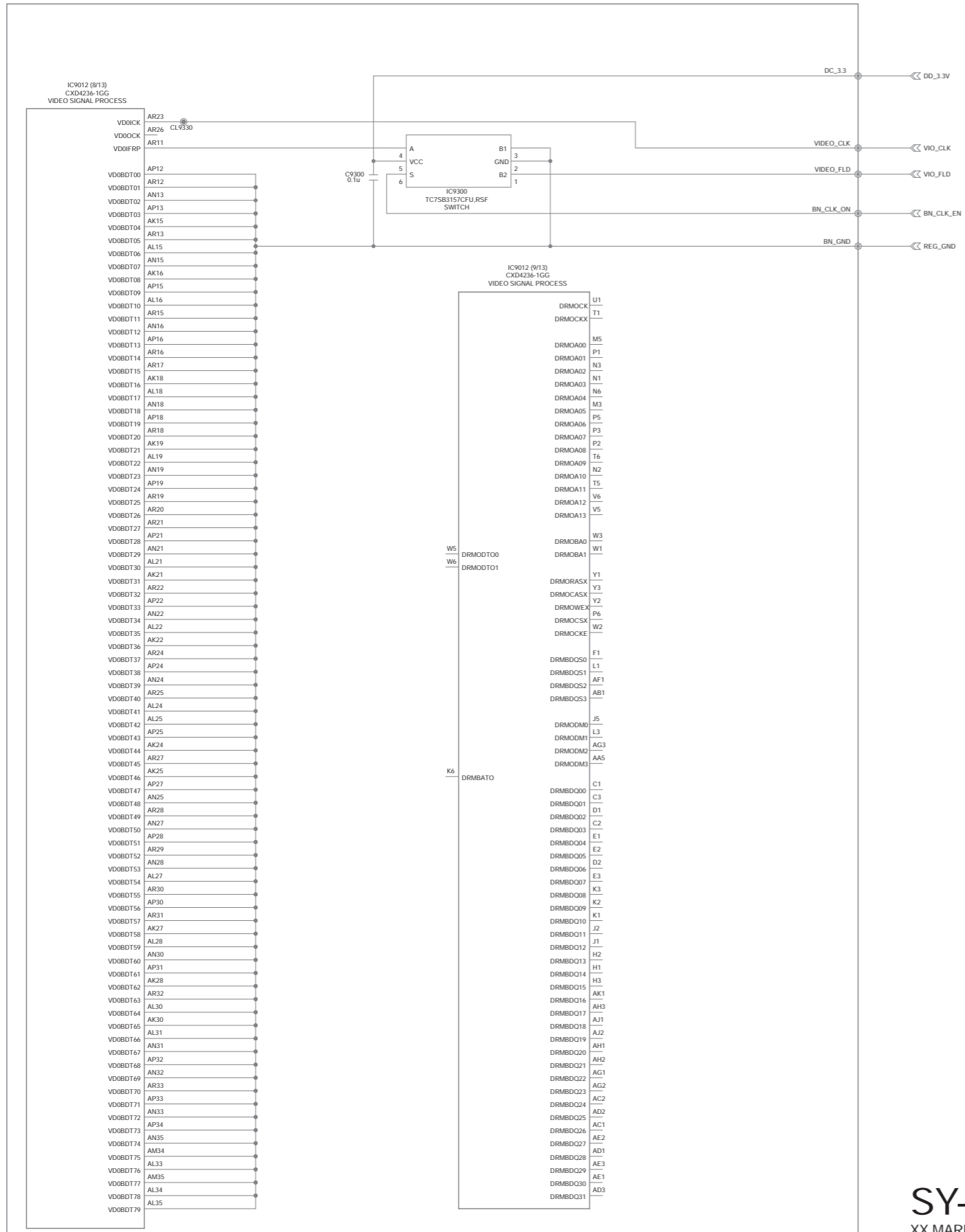
SY-1052 (17/23)



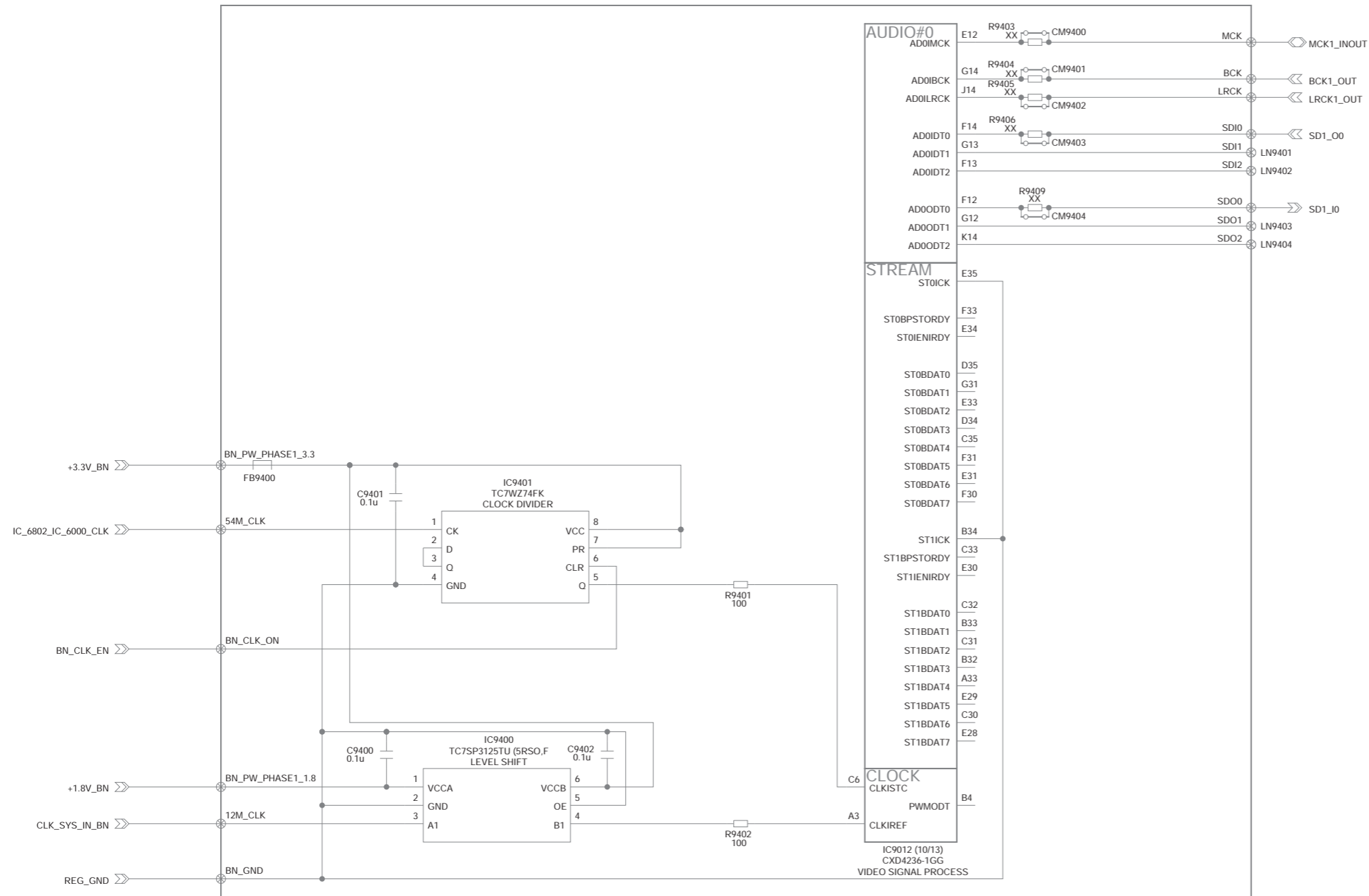
SY-1052 BOARD (17/23)  
XX MARK: NO MOUNT







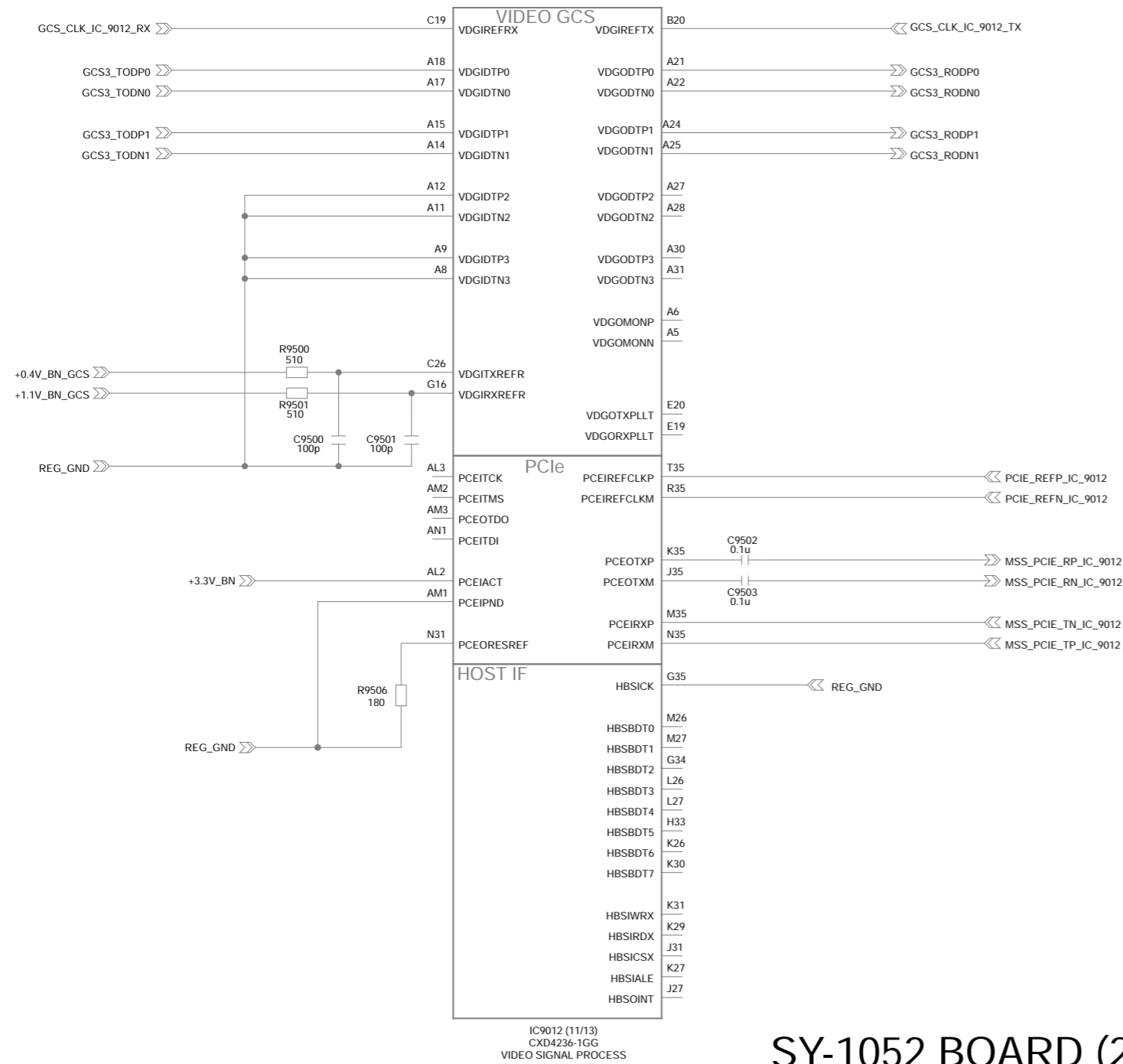
SY-1052 BOARD (19/23)  
XX MARK: NO MOUNT



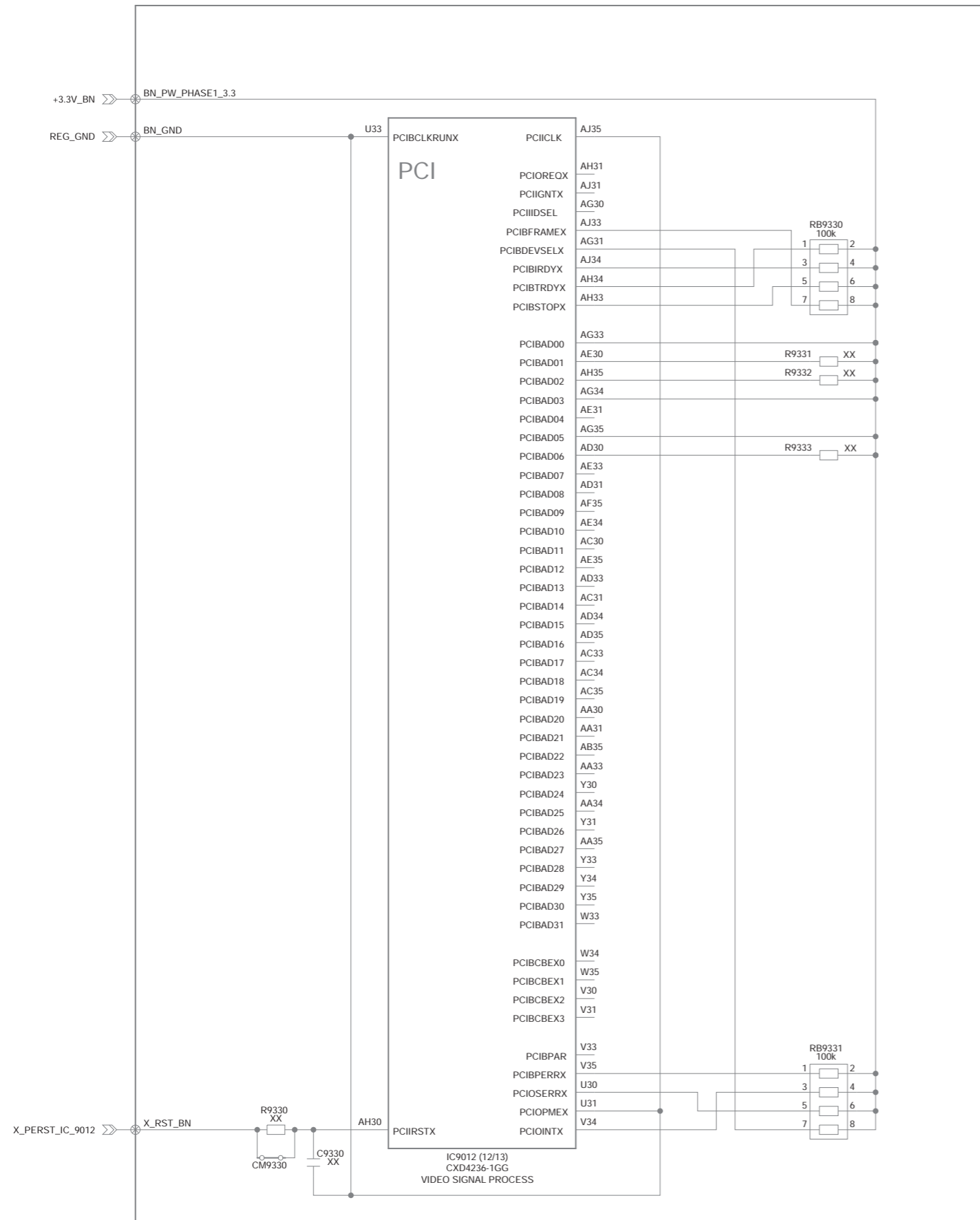
## SY-1052 BOARD (20/23)

XX MARK: NO MOUNT

SY-1052 (21/23)

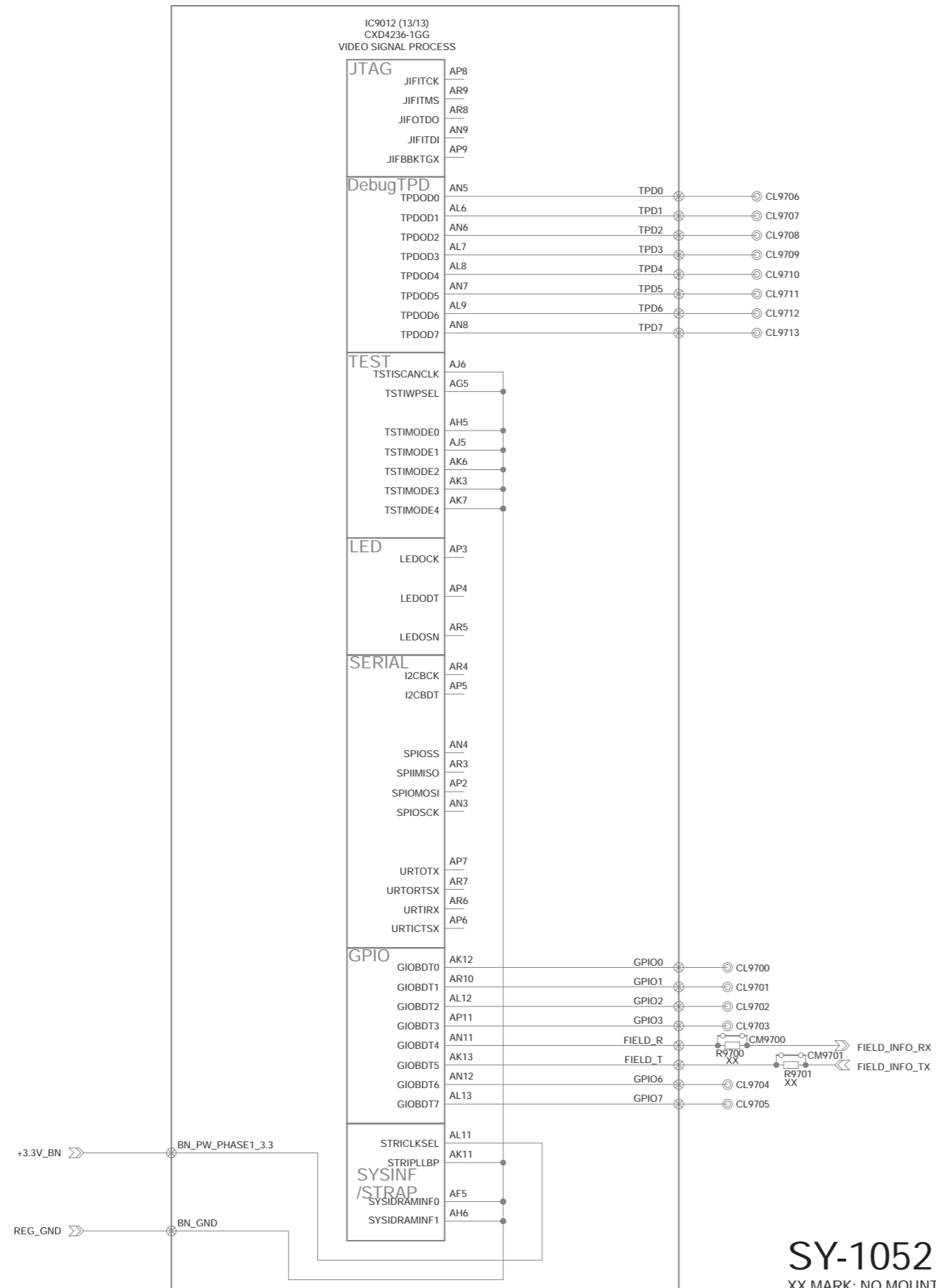


SY-1052 BOARD (21/23)  
XX MARK: NO MOUNT



## SY-1052 BOARD (22/23)






XX MARK: NO MOUNT



**SY-1052 BOARD (23/23)**  
XX MARK: NO MOUNT

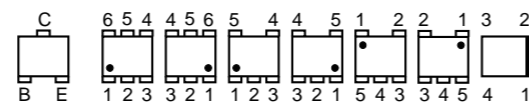
## Section 5 Printed Wiring Boards

### Note For Printed Wiring Boards

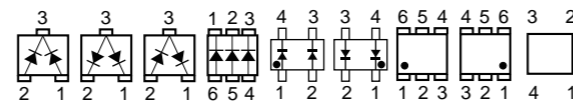
-  : Uses unleaded solder.
-  : Circuit board
-  : Flexible board
-  : pattern of the rear side  
(The other layers' patterns are not indicated)
- Through hole is omitted.
- There are a few cases that the part printed on diagram isn't mounted in this model.
-  : panel designation

#### Chip parts.







##### Transistor



##### Diode

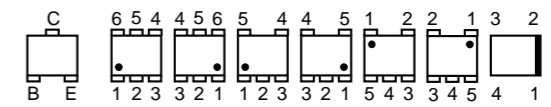


### プリント図ノート

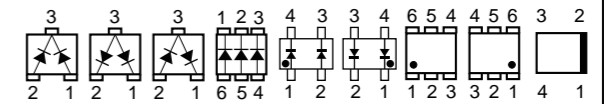
-  : 無鉛半田を使用しています。
-  : 基板
-  : フレキシブル配線板
-  : 見ている面側のパターン。
-  : 裏側のパターン  
(他のパターンについては表示されていません)
- スルーホールは省略。
- プリント図には、本機で使用していない部品が記載されている場合があります。
-  はパネル表示名称。

#### Chip parts.

##### Transistor



##### Diode



#### Caution

Danger of explosion if battery is incorrectly replaced.  
Replace only with the same or equivalent type.  
Dispose of used batteries according to the instructions.

#### 注意

如果电池更换不当会有爆炸危险。  
只能用同样类型或等效类型的电池来更换。  
务必按照说明处置用完的电池。

When indicating parts by reference number,  
please include the board name.

#### Precautions for Replacement of Imager

- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.  
In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

#### 注意

電池の交換は、正しく行わないと破裂する恐れがあります。  
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。  
使用済み電池は、取扱指示に従って処分してください。

#### お願い

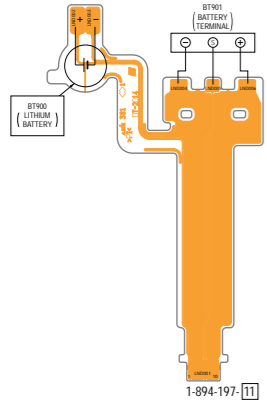
図面番号で部品を指定するときは基板名又はブロックを併せて指定してください。

#### イメージ交換時の注意

- イメージャを交換した場合は、カメラ部の全調整を行ってください。
- イメージャは構造上、静電気により破壊される恐れがあるため、MOS ICと同様に注意して取り扱ってください。  
また、受光部にはゴミの付着、および強い光がはいることのないように注意してください。

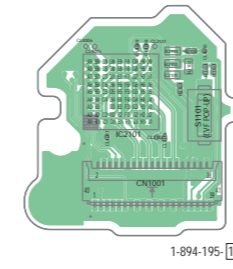
**BT-2014**

BT-2014 FLEXIBLE BOARD

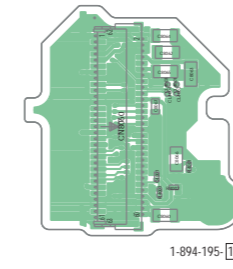


**EV-1012**

EV-1012 BOARD (SIDE A)

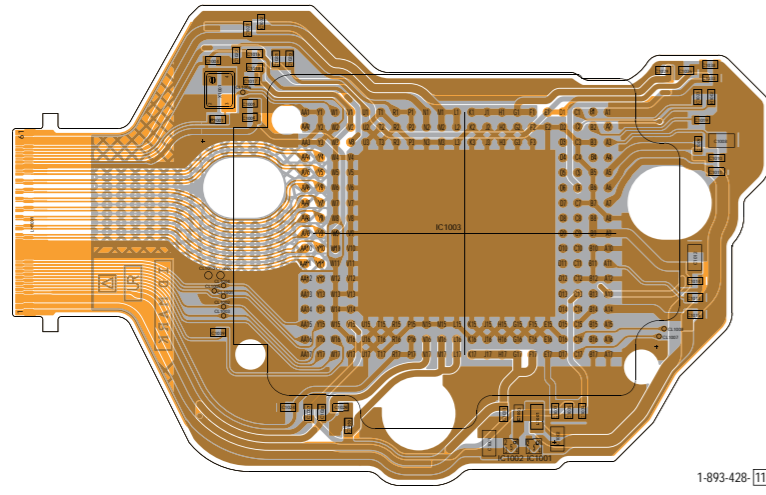


EV-1012 BOARD (SIDE B)



**CD-1006A**

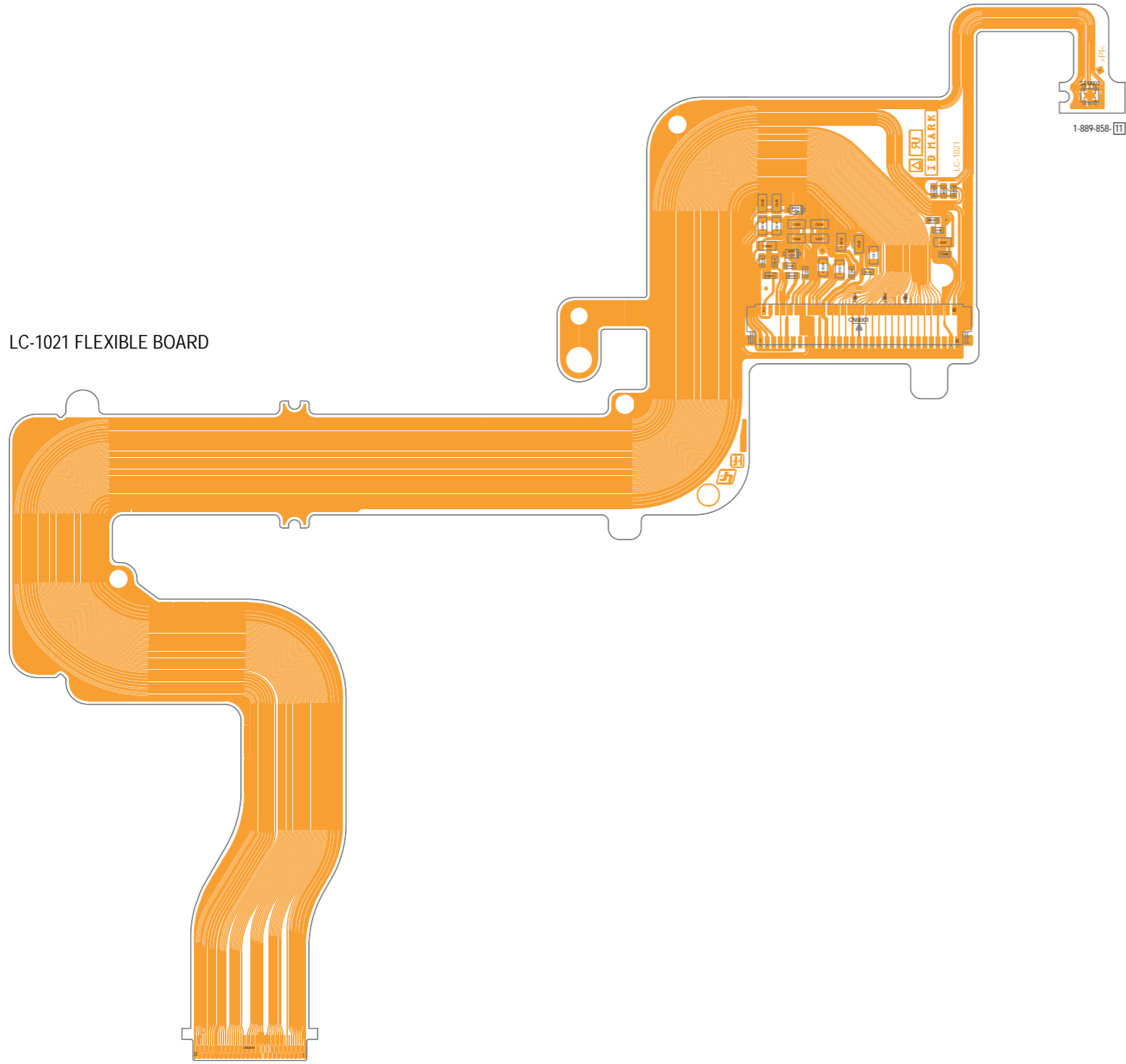
CD-1006A FLEXIBLE BOARD





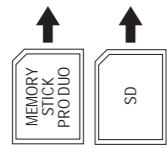
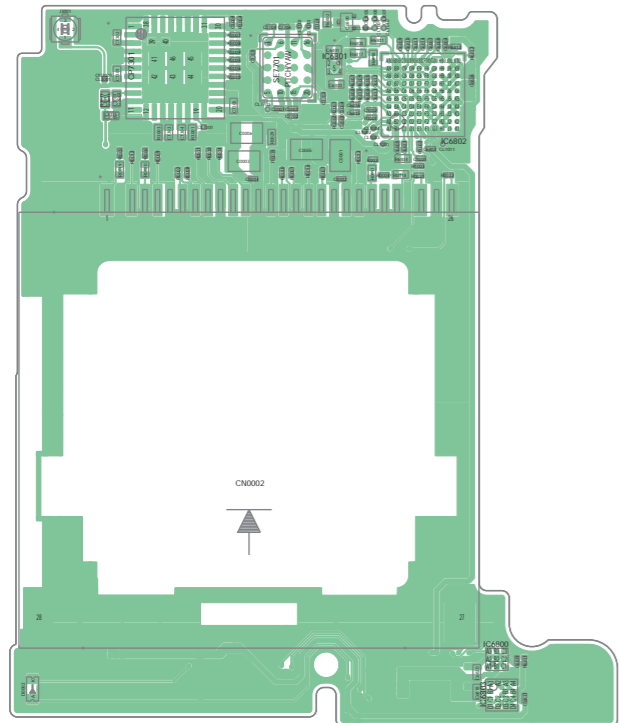
LC-1021

LC-1021 FLEXIBLE BOARD

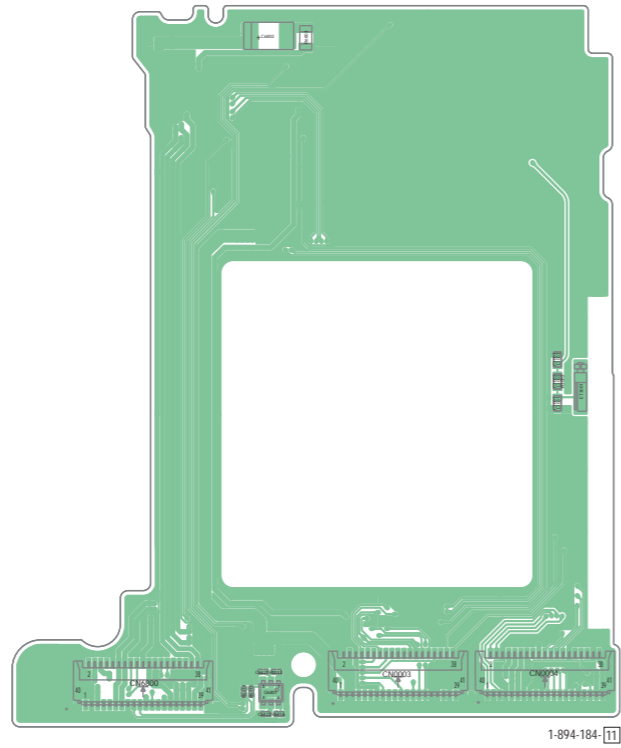


## MS-1028

MS-1028 BOARD (SIDE A)

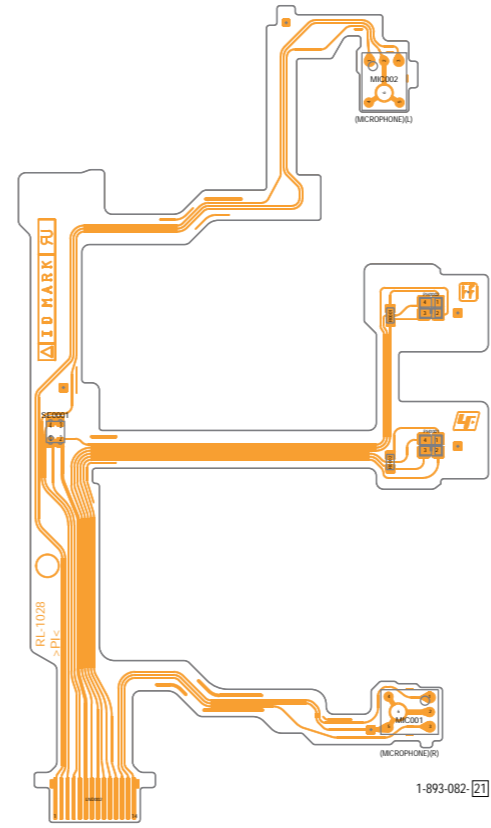


MS-1028 BOARD (SIDE B)



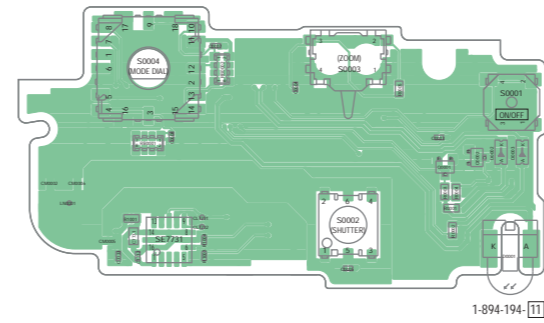
## RL-1028

RL-1028 FLEXIBLE BOARD

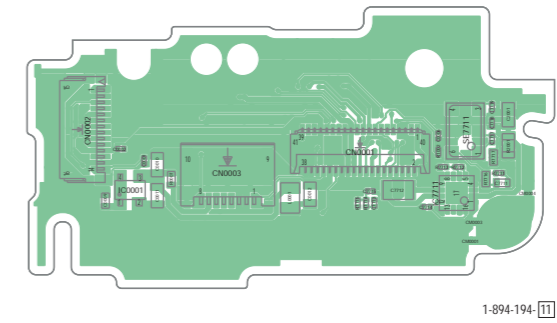


## RL-1038

RL-1038 BOARD (SIDE A)

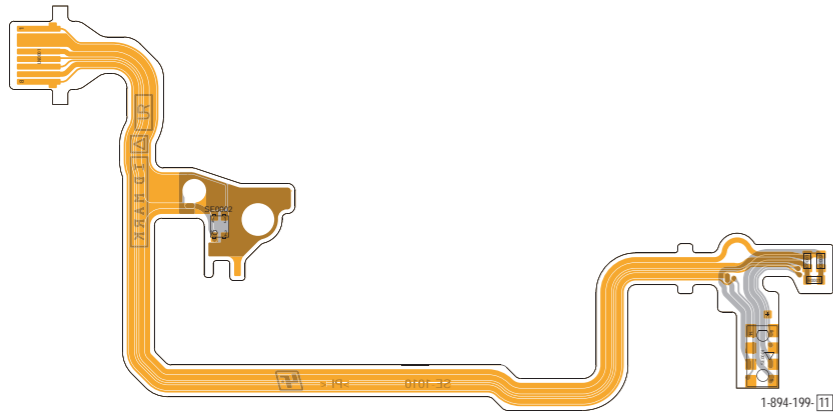


RL-1038 BOARD (SIDE B)



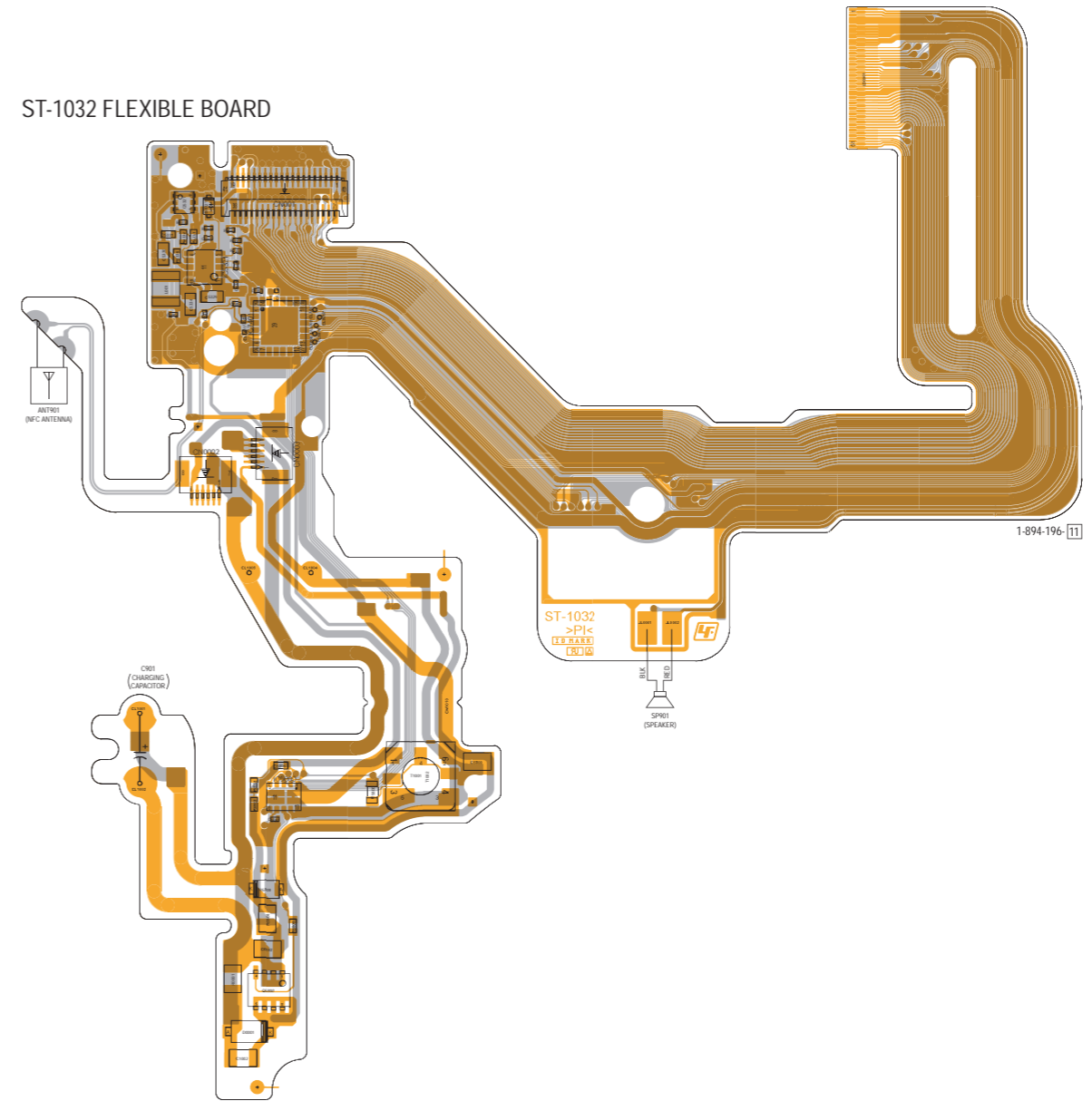
## SE-1010

SE-1010 FLEXIBLE BOARD



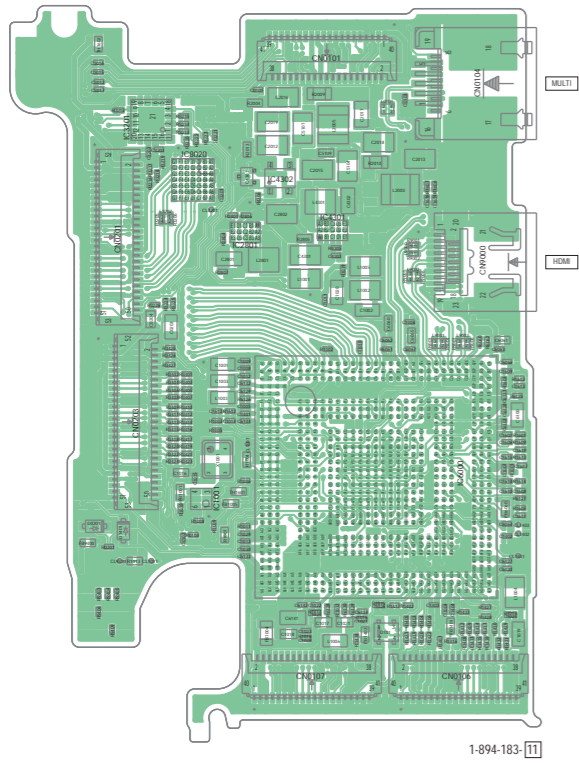
## ST-1032

ST-1032 FLEXIBLE BOARD

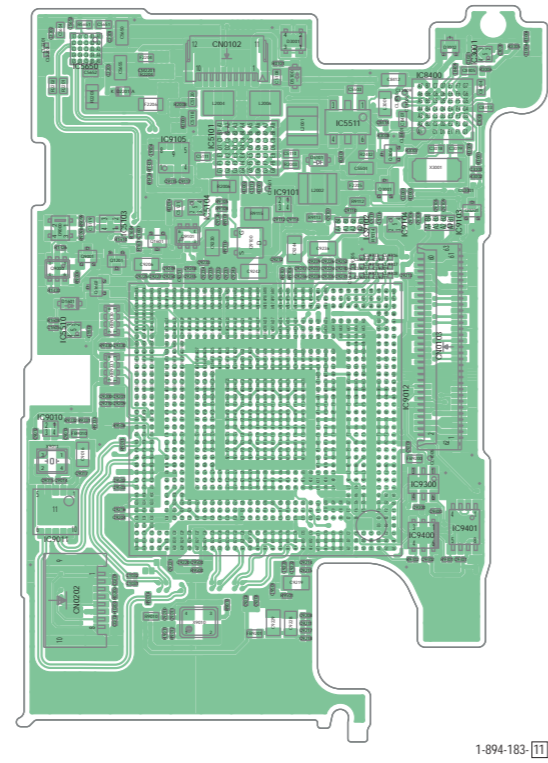


# SY-1052

SY-1052 BOARD (SIDE A)



SY-1052 BOARD (SIDE B)



## Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2015.06	Official Release	—	—





DSC-RX100M4 (UC2)  
DSC-RX100M4 (CE3)  
DSC-RX100M4 (CEH)  
DSC-RX100M4 (RU3)  
DSC-RX100M4 (E32)  
DSC-RX100M4 (IN5)  
DSC-RX100M4 (TW6)  
DSC-RX100M4 (HK1)  
DSC-RX100M4 (CN1)  
DSC-RX100M4 (KR2)  
DSC-RX100M4 (J1)  
9-896-740-11

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