

GARFIELD PEAK 2 1216 RL03C
HW FREEZE SCH

IPN'S FOR RL03

No#	Standard BOM Structure IPNs	Check Box if NEW IPN needed. (Check by Requestor)		New IPNs (Filled out by Product Config)
1	TA#	X		M14671-001
2	Optional on 1216 - Assy Module #	X		M14672-001
3	PBA#	X		M14674-001
4	PBMP - # up	X		M14675-001
5	PBMP PANEL	X		M1467501
6	PBMP - VDCR	X		M1467601
7	PB	X		M14677-001
8	PB FAB	X		M1467701
9	AM	X		M1467801
10	Assy Dwg/Mrkt Dwg	X		M1467401
11	Schematic	X		M1467901
12	IPC	X		M1468001
13	XY	X		M1468101
14	CAD	X		M1468201
15	Fabmaster	X		M1468301

USE THIS

GFP/TYP 1216-2230 ADP'S

1216 Adapter Board	
Discrete (new): (TyP2)	MP: K62881-001 / PCB: K62884-001
CNVi (GfP2)	MP: J26338-001 / PCB: J26401-001

IPN'S FOR C-STEP

1	TA#	M14671-003
2	Optional on 1216 - Assy Module #	M14672-003
3	PBA#	M27109-001
4	Schematic	M1467903

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STACKUP

Layer Name	Layer Type	Option 1D (POR)									
		Materials (um)	Finished (um)	Tolerance of the Individual measuremnet (%)	Tolerance of the Individual measuremnet +/- (um)	Min L/S (um)	M-Via (um) Prefer(ALT)	M-Via Pad (um)	R/C (%)	Dk/2G	Supplier
S/M	SolderMask		15	65.0%	10						PSR-4000
FRONT	Copper(1/3 umBase+Plating)	12	25	28.0%	7	see DR					
	Prepreg/1-1078(65%)	76.2	65	20.0%	13		100(90)	240	65%	4.03	EM37B(Z) Prepreg (Tg 180C)
L2	Copper(1/3 umBase+Plating)	12	25	28.0%	7	see DR					
	Core (1-1086)(61%)	76	76	17.0%	13		100 (110)	240	61%	4.11	EM370(Z) (Tg 180C) Laminate
L3	Copper(1/3 umBase+Plating)	12	25	28.0%	7	see DR					
	Prepreg/1-1078(65%)	76.2	65	20.0%	13		100(90)	240	65%	4.03	EM37B(Z) Prepreg (Tg 180C)
BACK	Copper(1/3 umBase+Plating)	12	25	28.0%	7	see DR					
S/M	SolderMask		15	65.0%	10						PSR-4000
	Finished Board Thickness (L1-L4)		306								
	Finished Board Thickness with SM		336	15%	50						

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CHANGES & COMMENTS

BOARD IS BASED ON GFP2 1216 RL03A (TY BOM) AND RL03B (WALSIN BOM)

UPDATES FROM 18-OCT-2020

BASE SCH IS BASED ON RL03A, 2ND SOURCE WAL IS BASED ON RL03B

UPDATES FROM 28-OCT-2020

SCH CLEAN-UP:

- GFP SI STEP: K66335-001 (A0) --> K66335-006 (A4)
- RF SHIELD: K63118-001 --> K63118-003
- 60MHZ XTAL: G22404-054 (HOSONIC OLD) --> G22404-062 (HOSONIC NEW)

UPDATES FROM 30-NOV-2020

STACKUP UPDATED TO ITS FINAL VERSION

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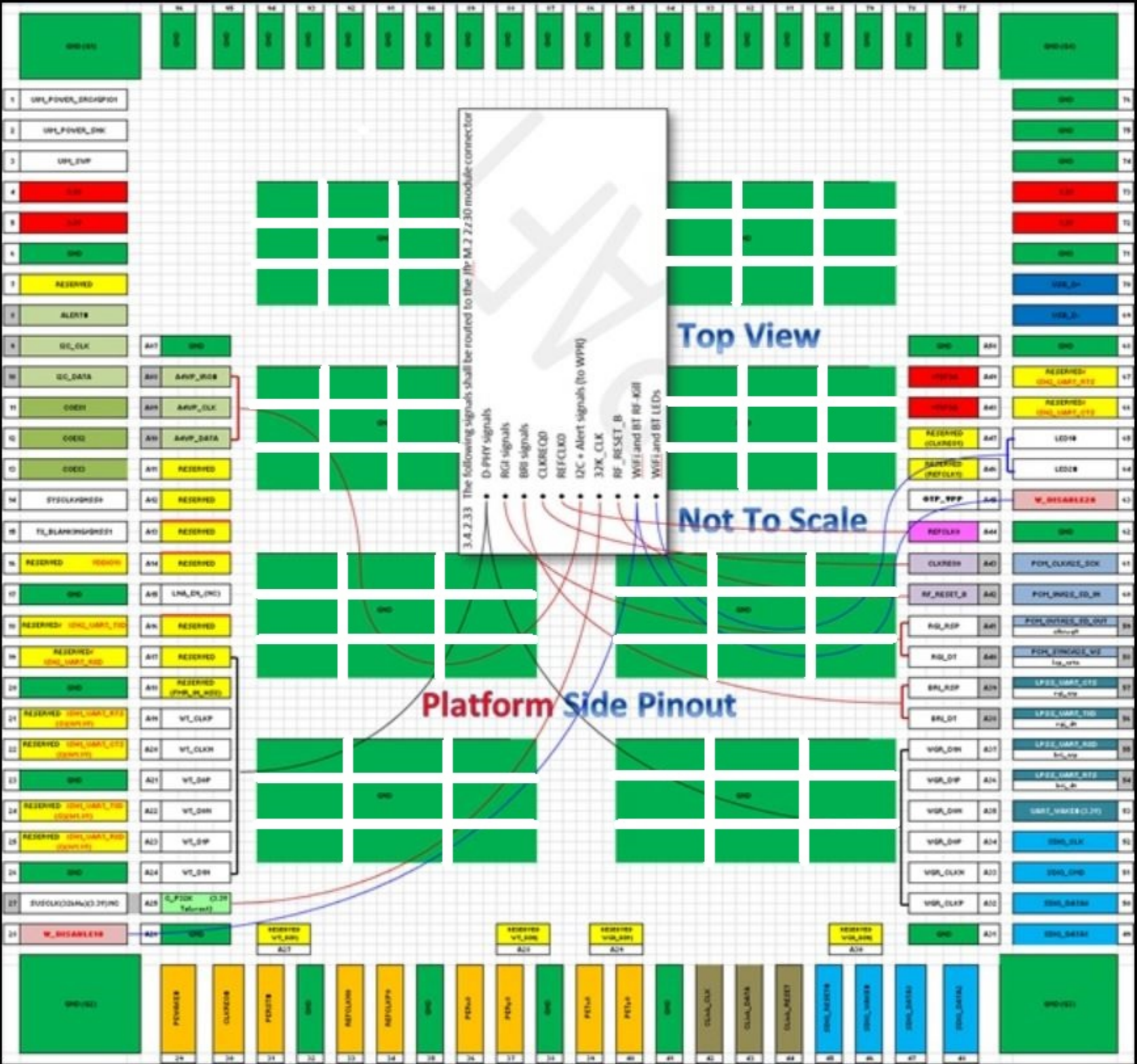
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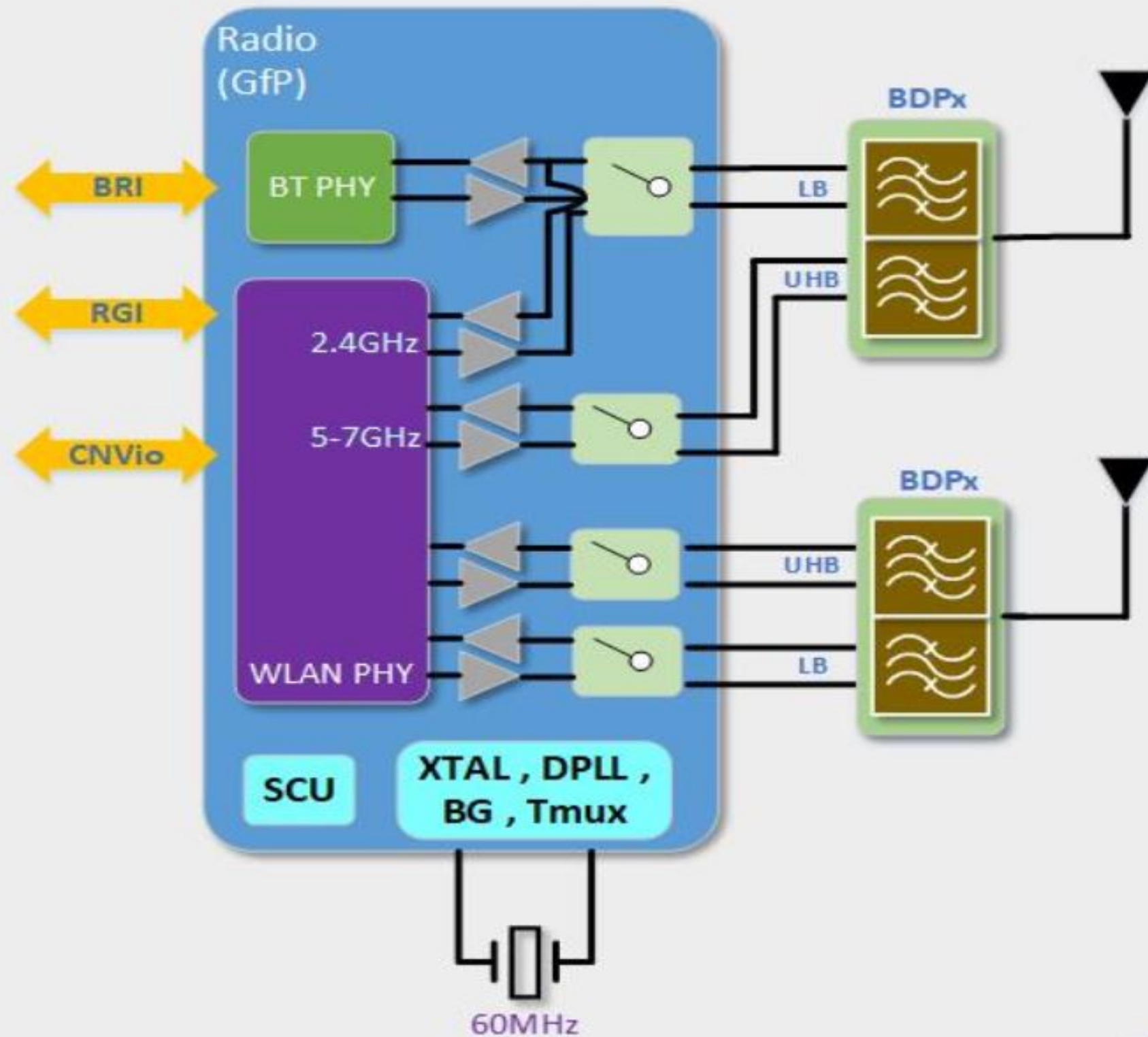
PIN MAPPING



BASELINE IS HRP SOLDERDOWN STRUCTURE,
WITH 8 CENTRAL GND PADS
DIVDED TO 72 EQUAL-SIZED PADS
FOR BETTER-HANDLING WARPAGE ISSUES

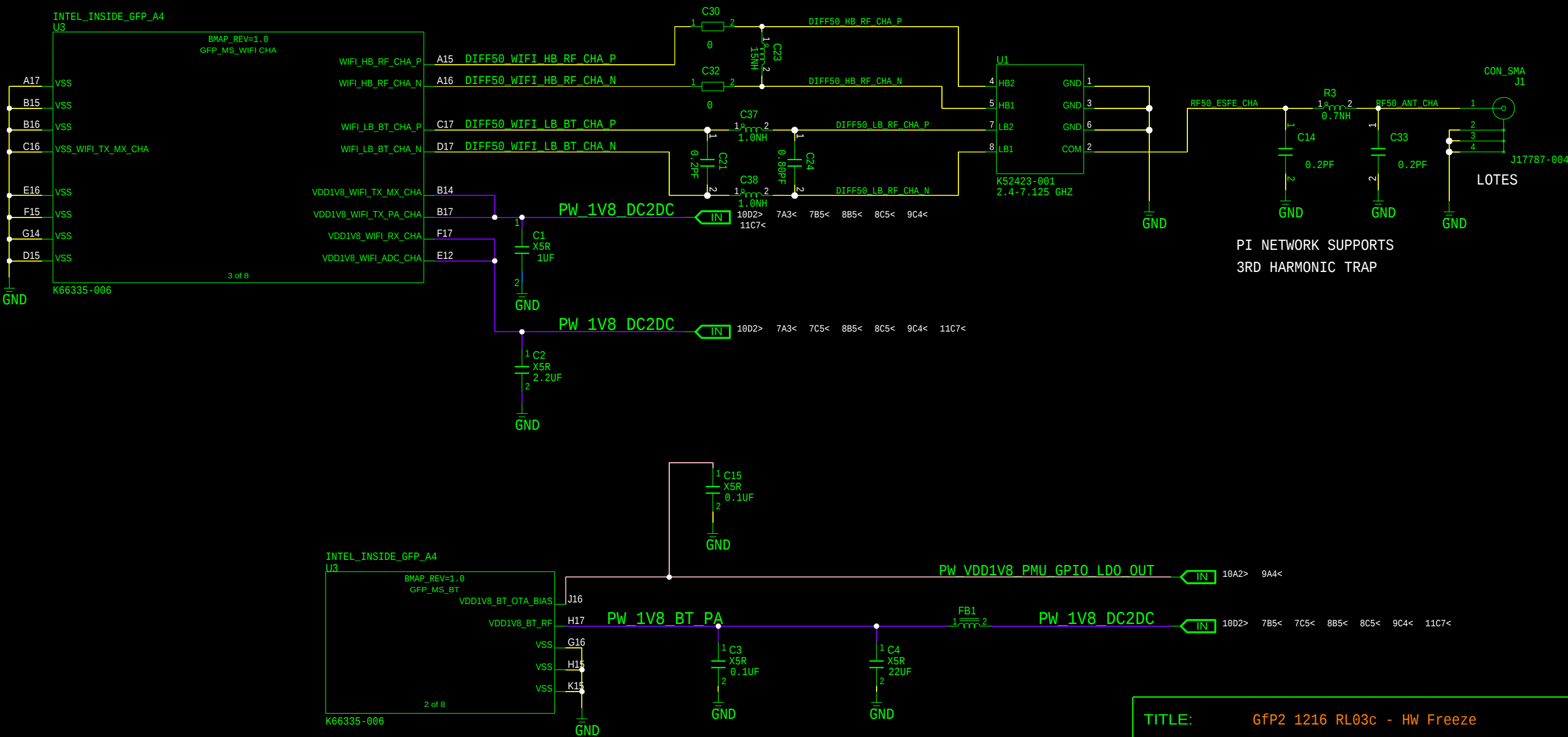
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BLOCK DIAGRAM



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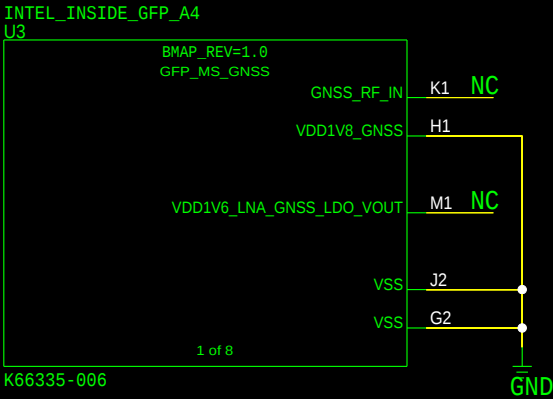
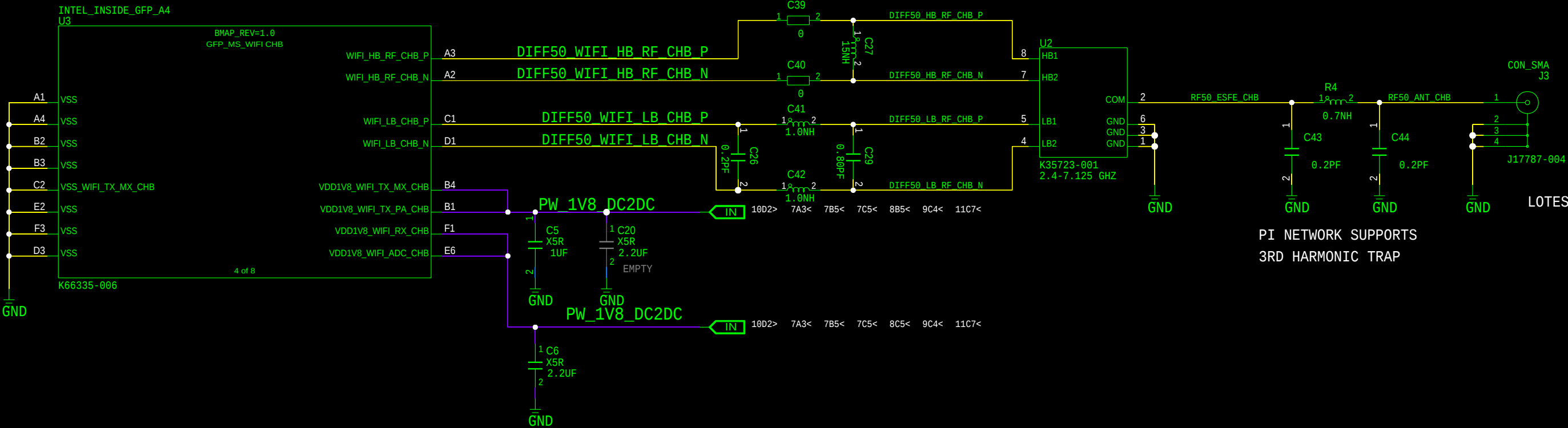
CHAIN A



PI NETWORK SUPPORTS
3RD HARMONIC TRAP

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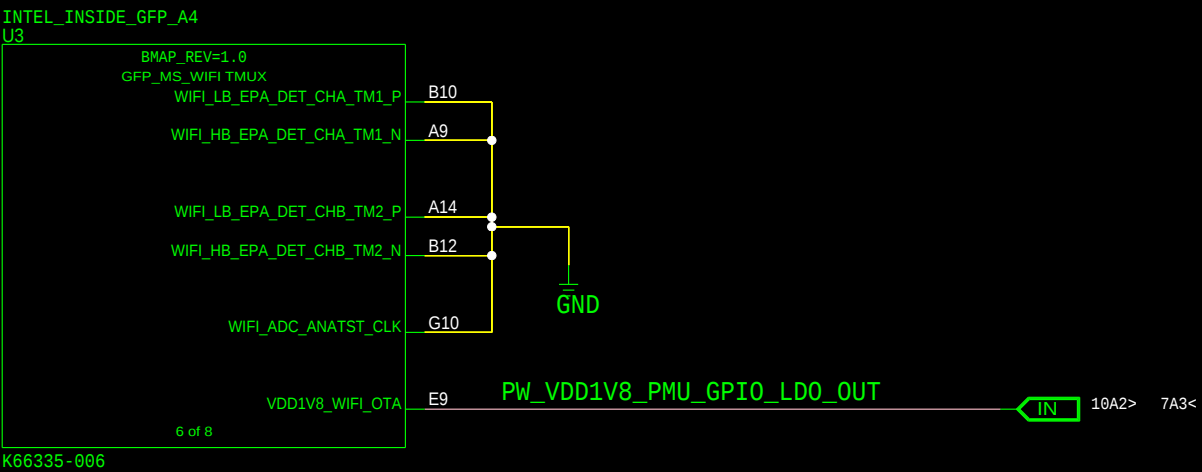
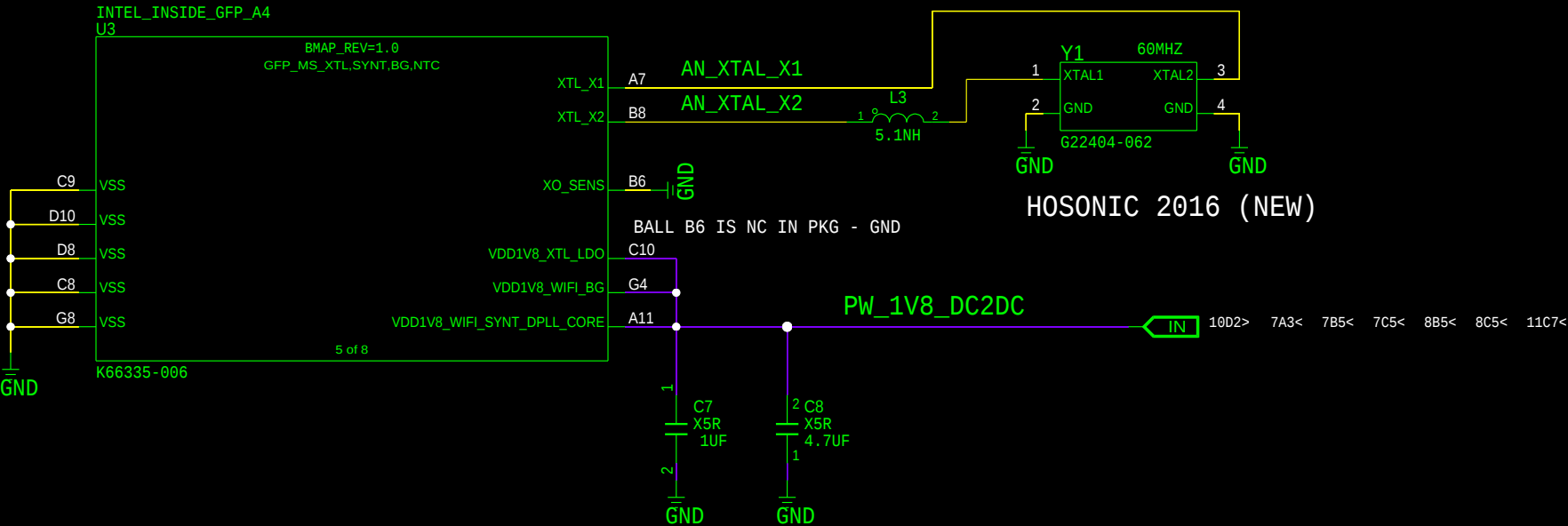
CHAIN B



BALLS K1 & M1 ARE NC FOR GFP SI
BALL H1 IS NC IN PKG - GND

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XTAL & SYNT



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