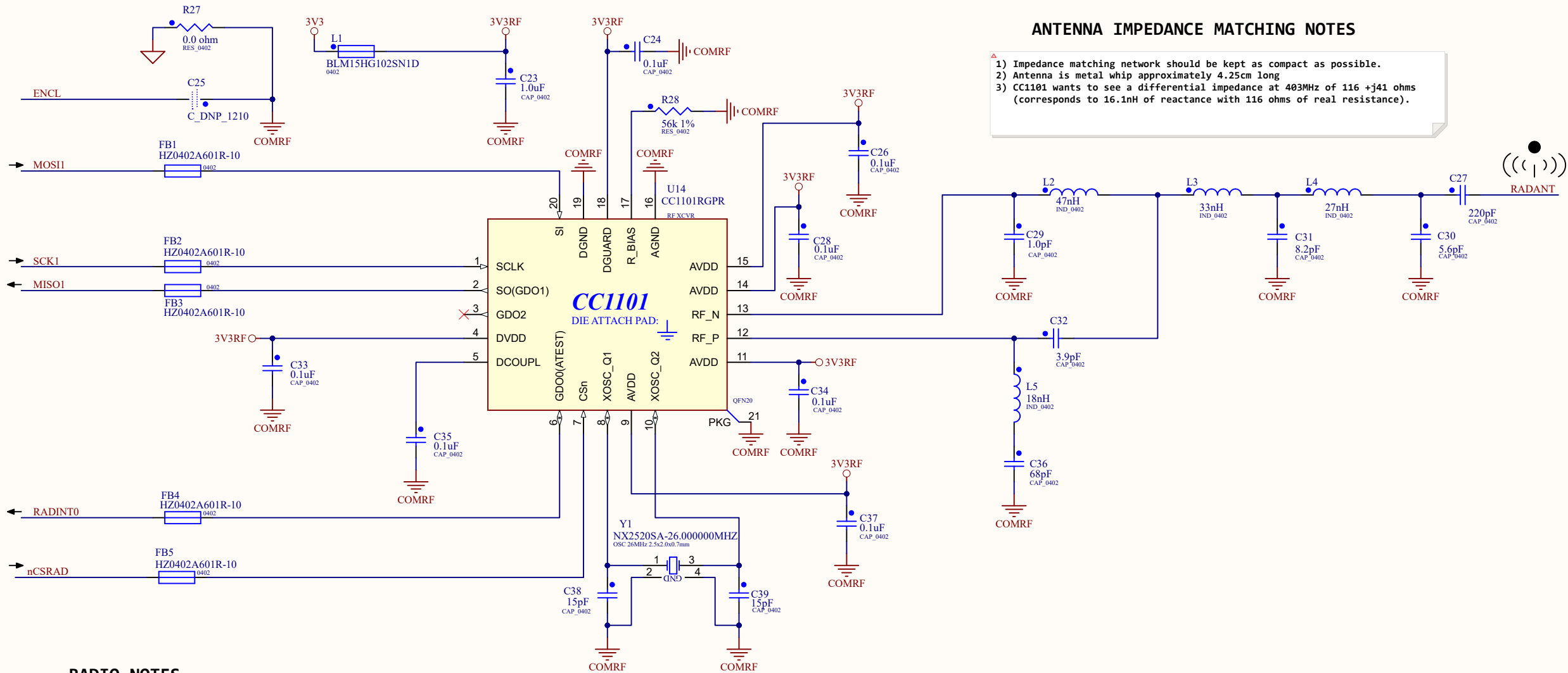


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ECN	DESCRIPTION	REV	DATE

-14 RADIO SYSTEM



ANTENNA IMPEDANCE MATCHING NOTES

1) Impedance matching network should be kept as compact as possible.
2) Antenna is metal whip approximately 4.25cm long
3) CC1101 wants to see a differential impedance at 403MHz of 116 +j41 ohms (corresponds to 16.1nH of reactance with 116 ohms of real resistance).

RADIO NOTES

1) USE SOLID GROUND PLANE IN LAYOUT
2) Ref section 29 "PCB Layout Recommendations" in Texas Instruments CC1101 datasheet SWRS061C p. 54.
3) Series ferrites on digital lines intended to reduce RF noise coupling back to processor.

APPROVALS	DATE	SYNAPSE Biomedical Inc.		
ENG: R. Yoder	7-19-2018	PROJECT REVISION: * DOCUMENT REVISION: * DESIGN ITEM: *		
DSN: K. Kowalski	4-12-2022	TITLE		
CHK: T.Crish	4-12-2022	BOM: *		
REFERENCE DOCUMENTS		MED Radio		
ASSY DWG: 51-2001		SIZE B	DWG NO. 51-2001-01-10	REV 4
FAB DWG: *		SCALE: * FILE NAME 51-2001-01-10_04.SchDoc SHEET 10 OF 18		
PCB DWG: 52-2001				