

RTK7RL23LMP00000BJ Schematics Rev. A

RL78/G23 Lighting Communication Master Evaluation Board

Contents

- P01 TOP
- P02 MCU
- P03 DALI/DMX
- P04 MCU Power
- P05 USB/OCD
- P06 Touch Key

Revision History

Date	Rev	Description
2022.12.5	V1.00	*First Revision

Power types

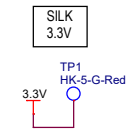
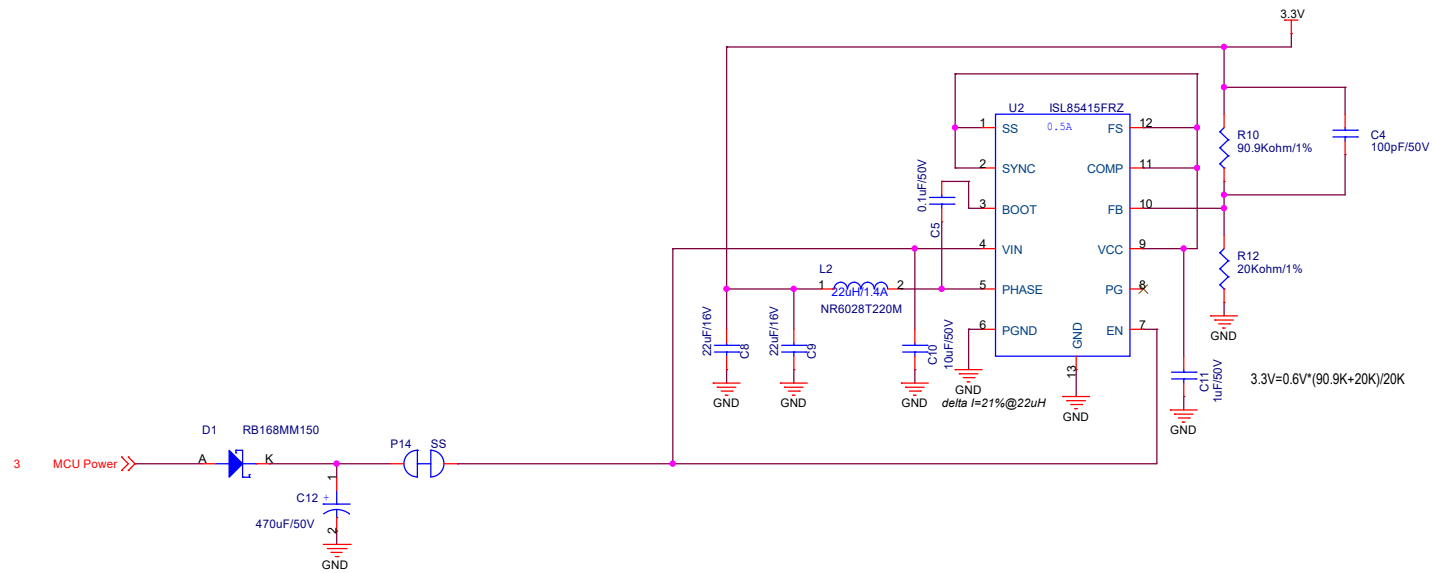
VBUS	Extarnal power supply	5.0V/2A max
5V	Internal power supply	5.0V/2A max
3.3V	Internal power supply	3.3V/2A max
17.5V	Internal power supply	17.5V/1A max

 GND

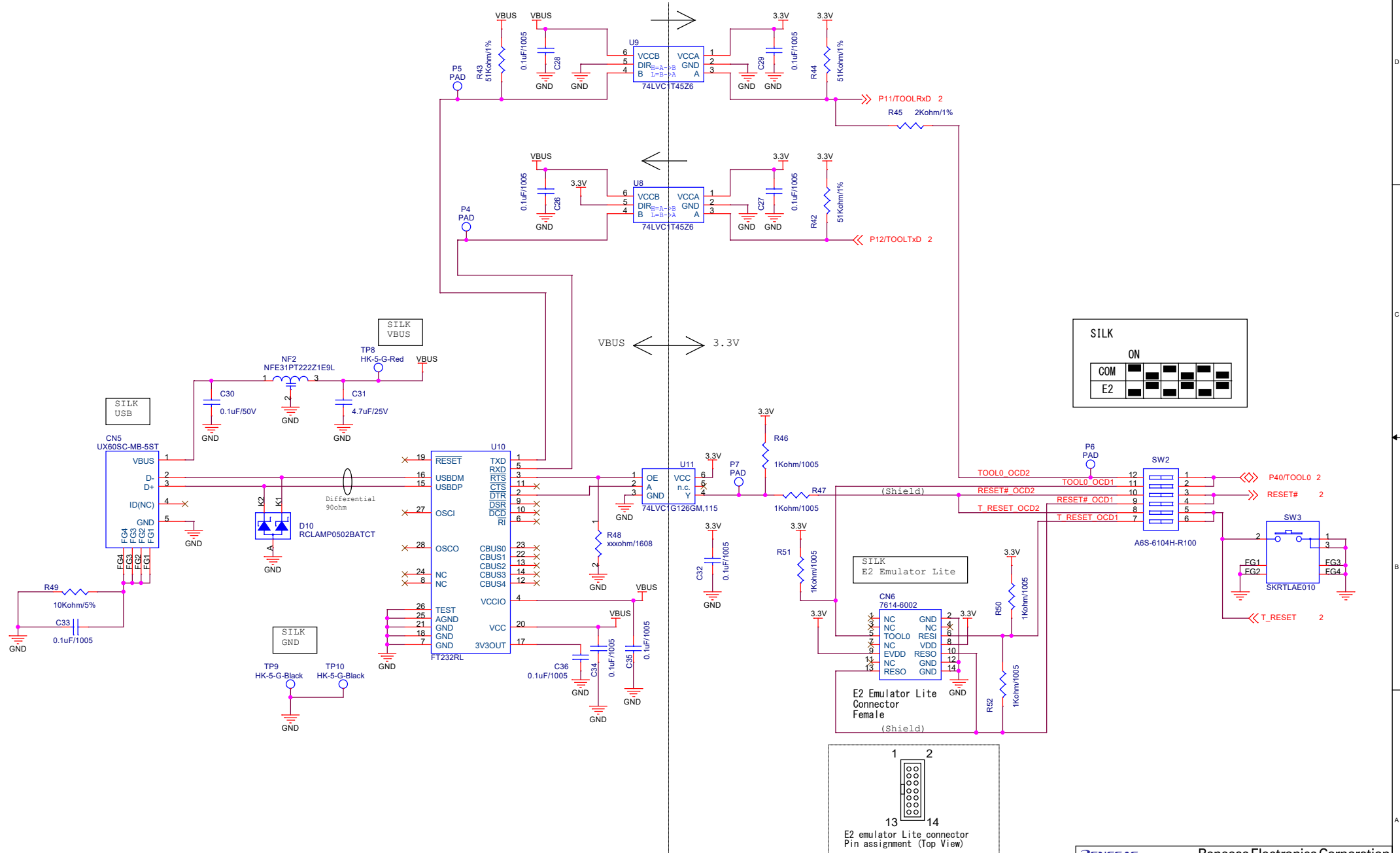
Board silk

Board Name	RL78/G23 Lighting Communication Master Evaluation Board
PCB No.	RTK7RL23LMP00000BJ
Country of production	MADE IN JAPAN
Display 1	UL mark
Display 2	RoHS Compliant
Display 3	Anti Static
Display 4	WEEE
Display 5	CE
Display 6	China-RoHS(10 years)

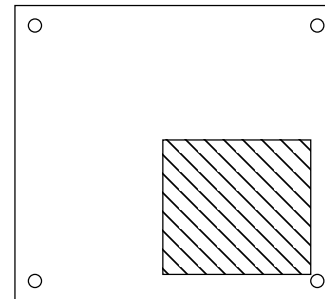
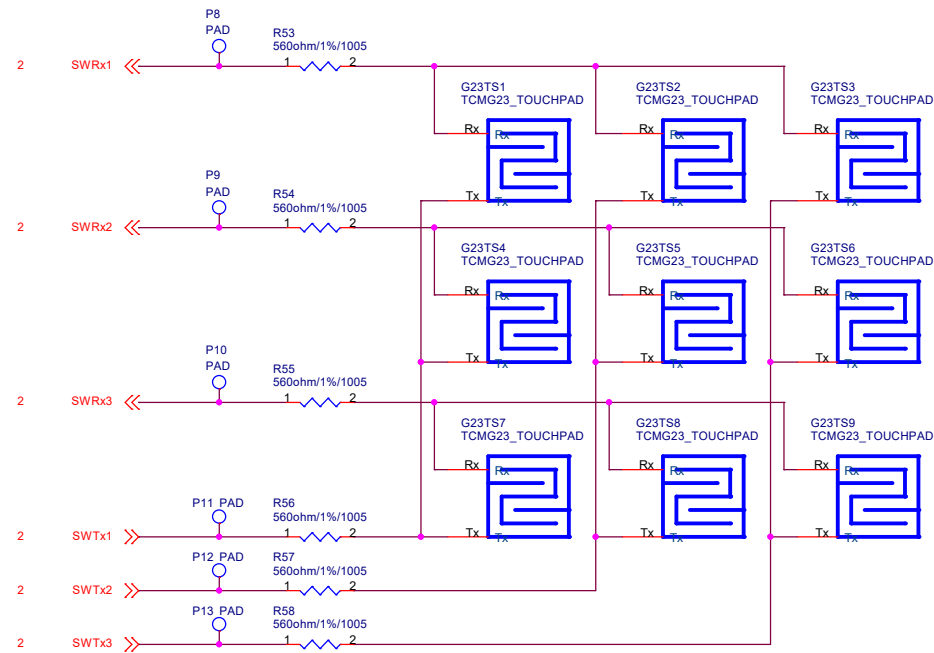
		Renesas Electronics Corporation	
Title			
RTK7RL23LMP00000BJ Schematics Rev. A			
Size	Document Number		Rev
A3	R20UT5173EJ0100		1.00
Date:	December 5, 2022	Sheet 1 of 6	



When USB power supply is OFF, LVC1T45 are disabled. (HI-Z)



Mutual capacitance touch sensor 3x3 matrix switch electrode circuit



Place the touch sensor key position as close to the edge of the board as possible to avoid interference with other parts.