

Block Daigram

The type and specification of the components refer to the BOM

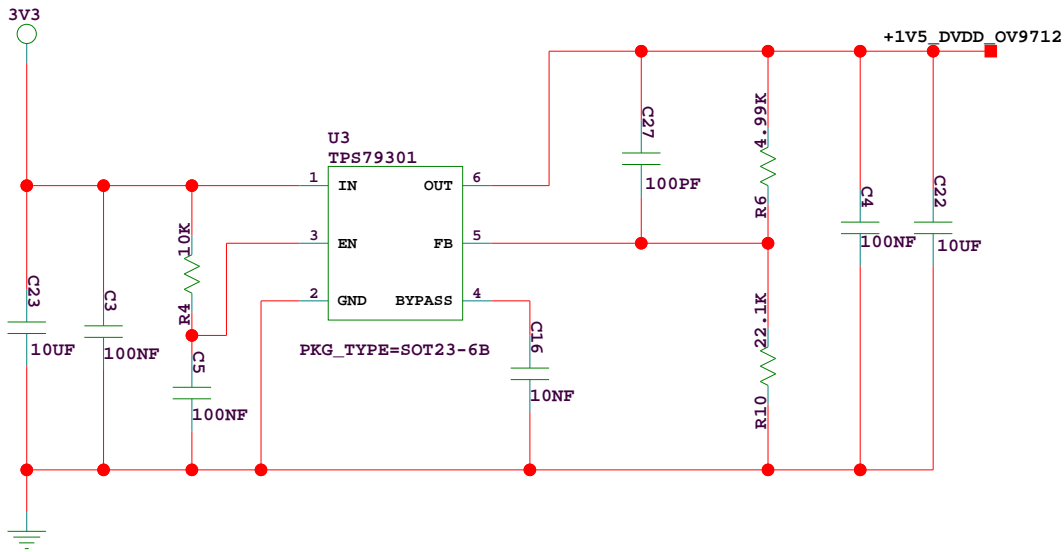
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				ECA NO	DATE
DESIGNED	WANGQUN	@NAME=OV9712REFB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 2 OF 7	
		A	03030001	HUAWEI TECH CO.,LTD.	

Power Tree

The type and specification of the components refer to the BOM

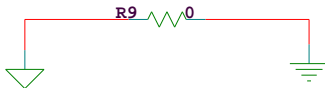
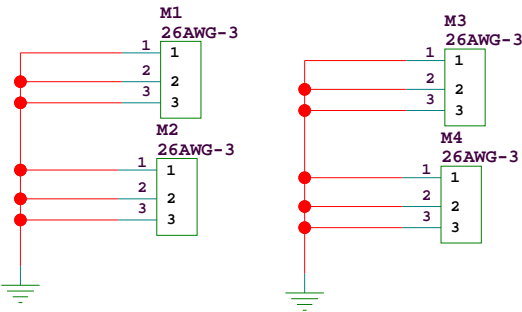
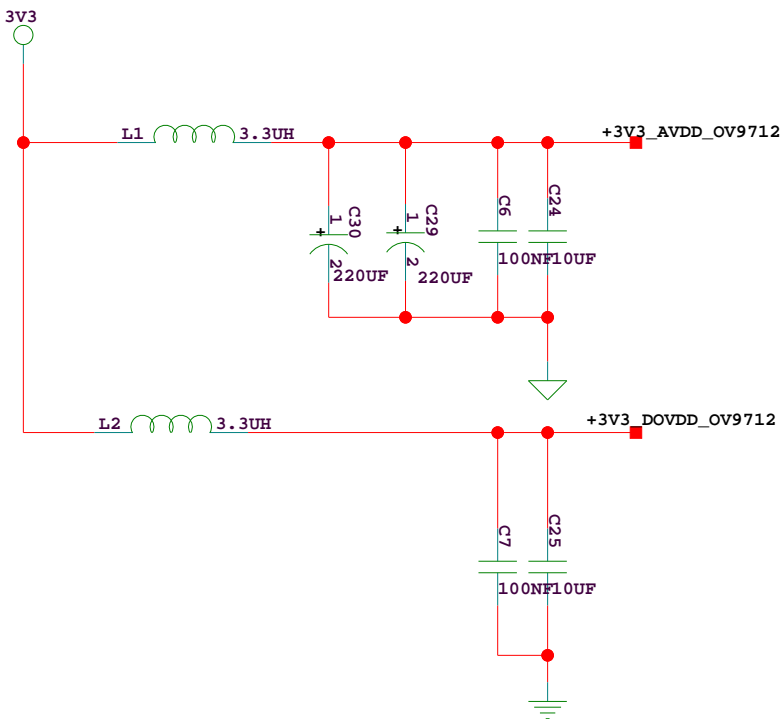
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REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 3 OF 7	
		A	03030001	HUAWEI TECH CO.,LTD.	

OV9712 Power



1V5_DVDD_OV9712=1.2246*(1+4.99/22.1)=1.501V

1V5 Power-on sequence is the LAST one ,so RC circuit to delay about 931 us
delay=10K*100nf*ln(3.3/(3.3-2))=931us

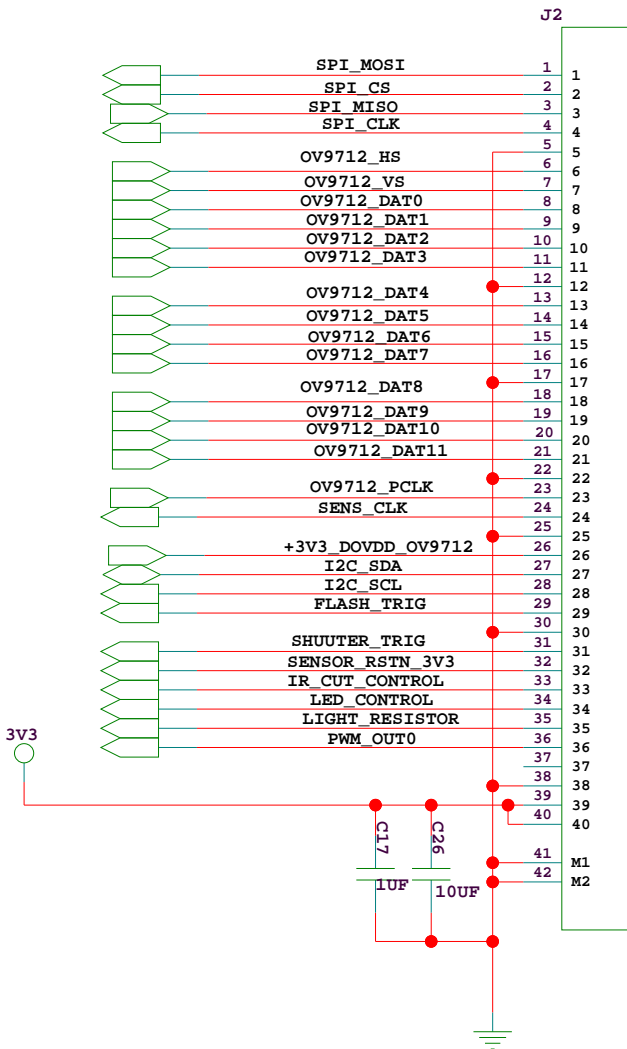
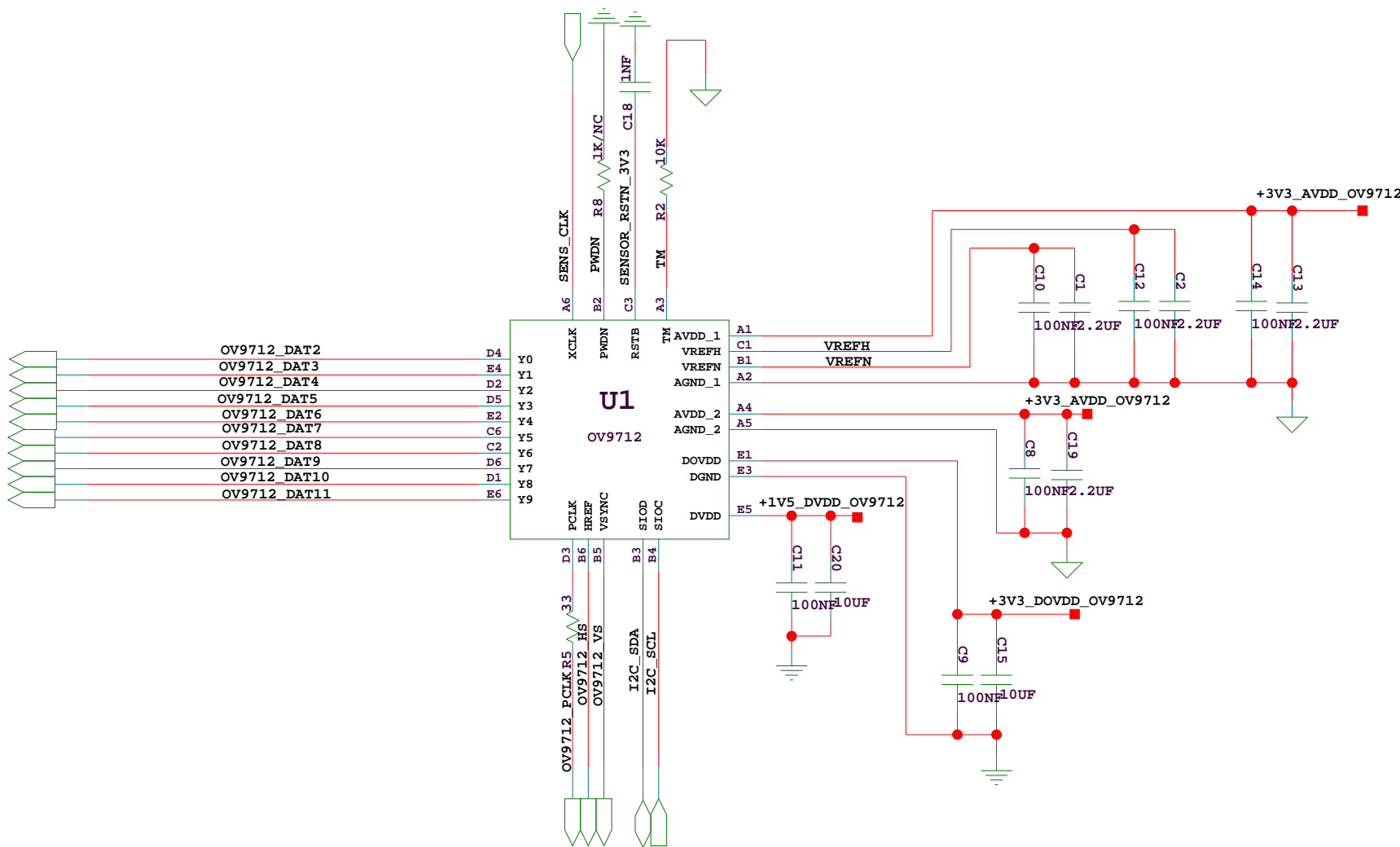


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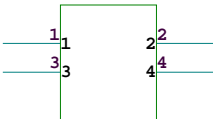
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DESIGNED	WANGQUN	OV9712REFB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 4 OF 7	
		A	03030001	HUAWEI TECH CO.,LTD.	

OV9712 AVDD/DOVDD/DVDD/I2C/otherpins/Connector

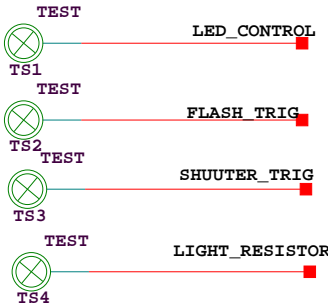
connect to main board



OBJ1



lens socket

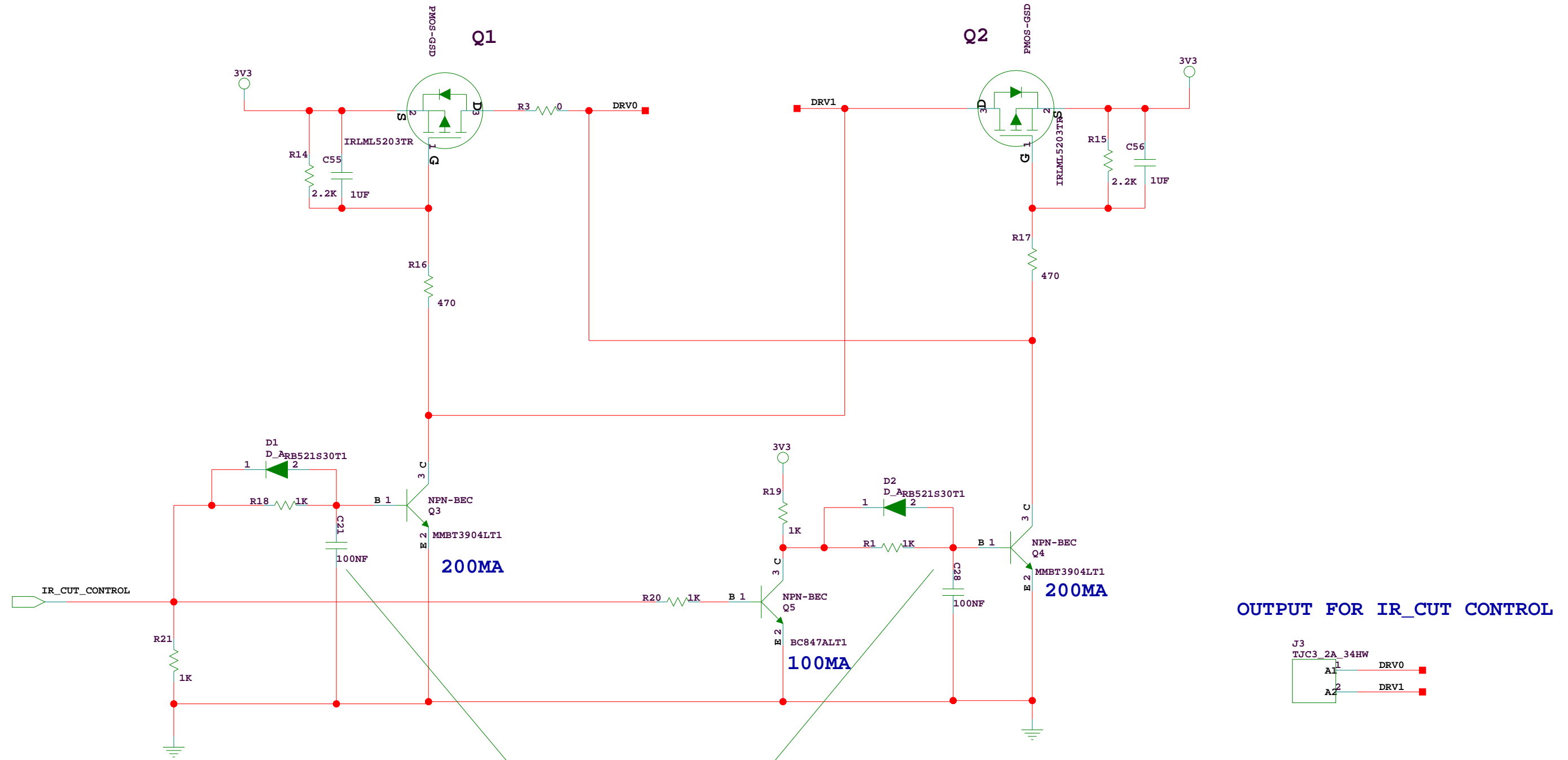


test points

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DESIGNED	WANGQUN	OV9712REFB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 5 OF 7	
		A	03030001	HUAWEI TECH CO.,LTD.	

OV9712 IR_CUT Driver Circuit

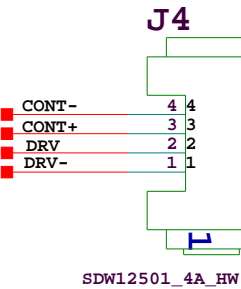
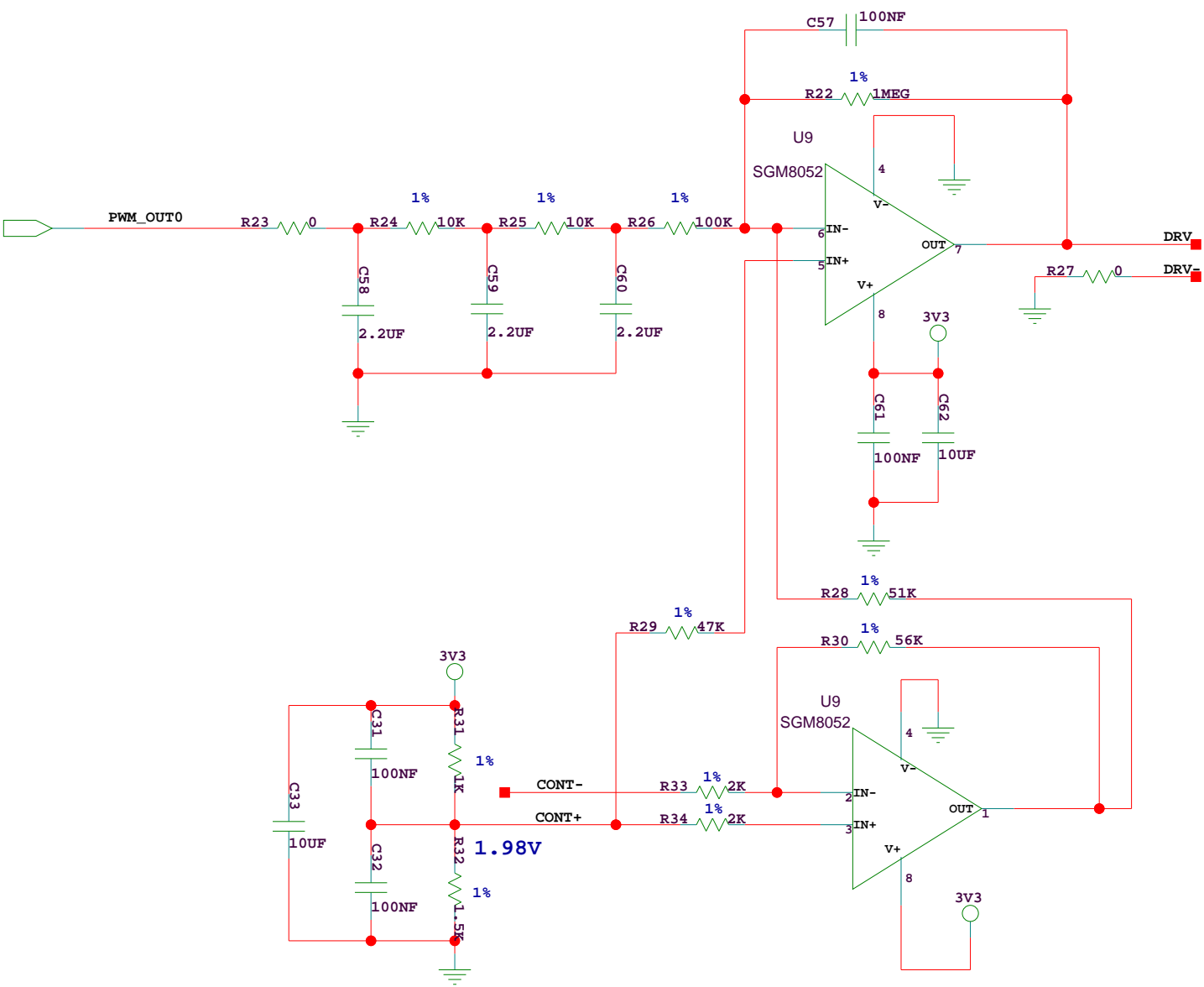


$$\text{Delay} = 1k \cdot 100nF \cdot \ln[3.3 / (3.3 - 0.8)] = 277\mu s$$

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				NA	
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DESIGNED	WANGQUN	@NAME=OV9712REFB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET6	OF 7
		A	03030001	HUAWEI TECH CO.,LTD.	

PWM For AI Control



OUTPUT FOR AI Control

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				NA	
				ECA NO	DATE
DESIGNED	WANGQUN	@NAME=OV9712REFB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET	OF 7
		A	03030001	HUAWEI TECH CO.,LTD.	