

# ISLA214P50IR72EV1Z Bill of Materials

Impedance Ratio	Mode	T5 PART NUMBER	T2 PART NUMBER	FS Input Power (dBm)	R19, R21 (Ohms)	R19, R21 Vishay Part number	R16, R17	R18, R20
1:1 *	ISLA214P25	ADTL1-12+	DNP	10	27	CRCW040227R0FKED	DNP	0 Ohm
	ISLA214P50	ADTL1-12+	DNP	10	30	CRCW040230R0FKED	DNP	0 Ohm
	ISLA216P25	ADTL1-12+	DNP	10	30	CRCW040230R0FKED	DNP	0 Ohm
2:1	ISLA214P25	TX-2-5-1	DNP	13	13	CRCW040213R0FKED	DNP	0 Ohm
	ISLA214P50	TX-2-5-1	DNP	13	13.7	CRCW040213R7FKED	DNP	0 Ohm
	ISLA216P25 *	TX-2-5-1	DNP	13	13.7	CRCW040213R7FKED	DNP	0 Ohm
4:1	ISLA214P25	DNP	TC4-19G2+	16	6.34	CRCW04026R34FKED	0 Ohm	DNP
	ISLA214P50	DNP	TC4-19G2+	16	6.49	CRCW04026R49FKED	0 Ohm	DNP
	ISLA216P25	DNP	TC4-19G2+	16	6.49	CRCW04026R49FKED	0 Ohm	DNP
1:2	ISLA214P25	TX-2-5-1 BACKWARD	DNP	7	60.4	CRCW040260R4FKED	DNP	0 Ohm
	ISLA214P50	TX-2-5-1 BACKWARD	DNP	7	75	CRCW040275R0FKED	DNP	0 Ohm
	ISLA216P25	TX-2-5-1 BACKWARD	DNP	7	75	CRCW040275R0FKED	DNP	0 Ohm

\* Default PCB Build

# ISLA214P50IR72EV1Z Schematics

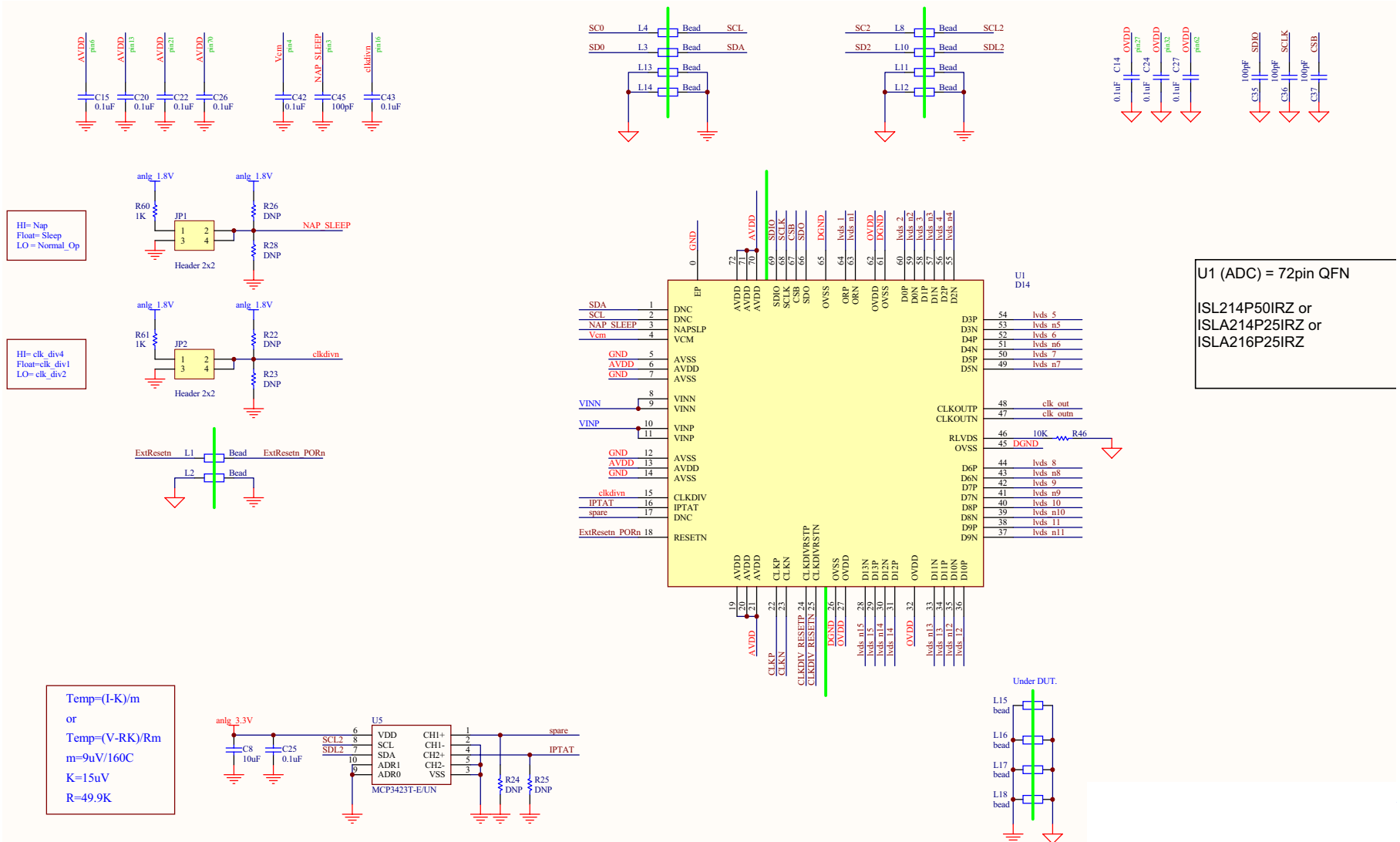


FIGURE 1. ADC

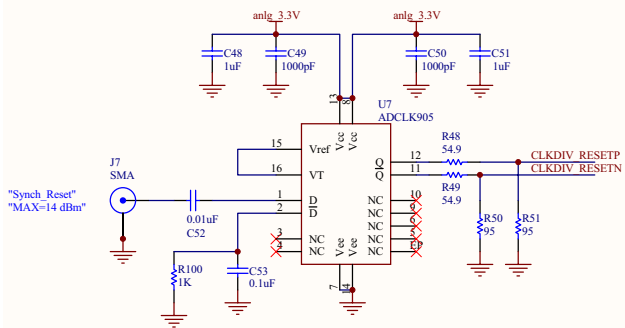
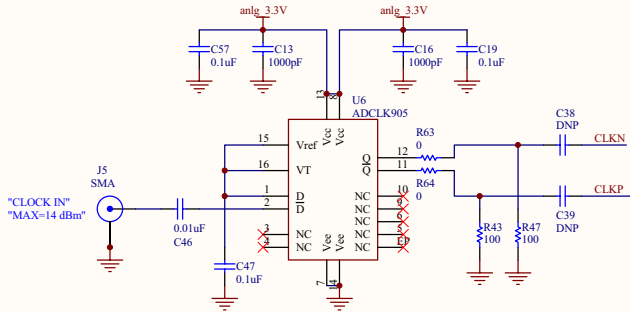
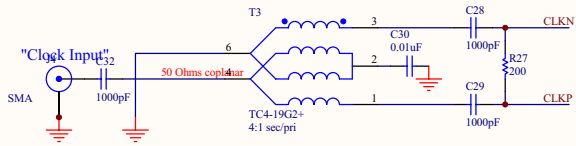
U1 (ADC) = 72pin QFN  
ISLA214P50IRZ or  
ISLA214P25IRZ or  
ISLA216P25IRZ

Under DUT.

# ISLA214P50IR72EV1Z Schematics (Continued)

Sampling Clock      Populate      Depopulate

LVC MOS	C28, C29	C38, C39
LVDS	C38, C39	C28, C29



R100 was added to rev B pcb  
Rev B pcb also Cut trace at C53

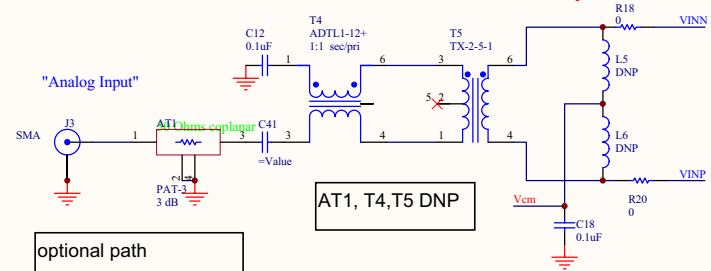
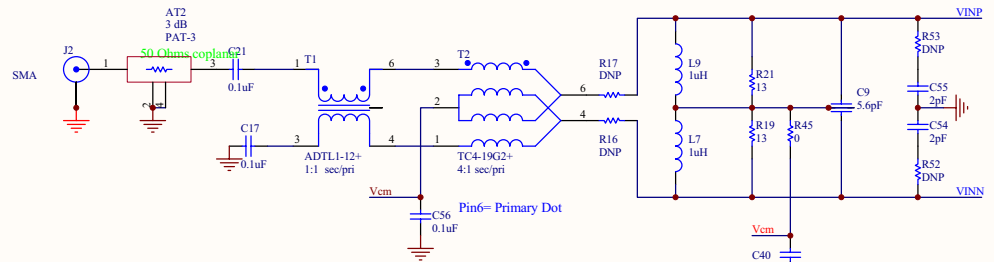


FIGURE 2. ANALOG FRONT END, CLOCK, SYNC RESET

# ISLA214P50IR72EV1Z Schematics (Continued)

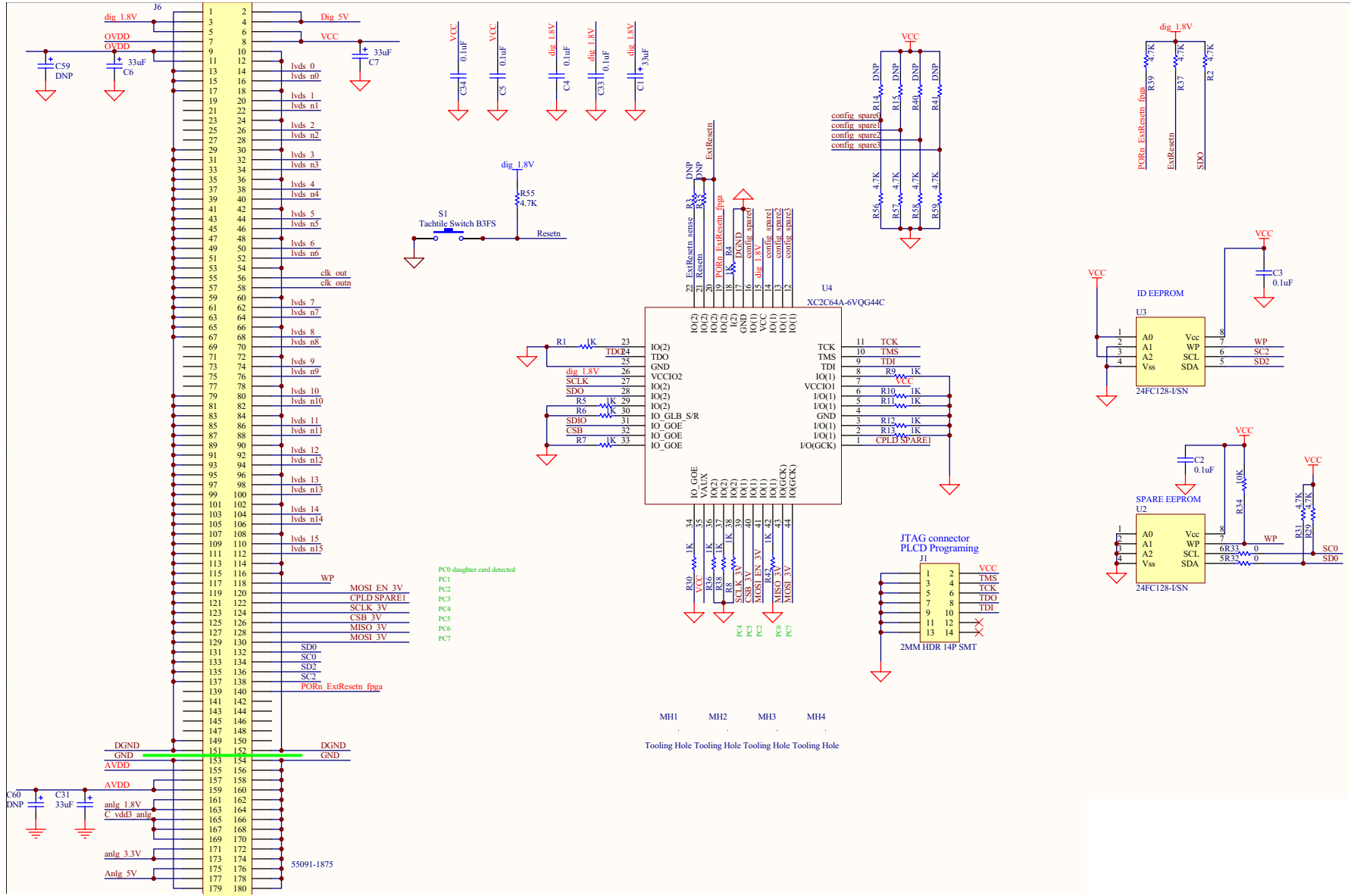


FIGURE 3. IO LEVEL TRANSLATOR ID PROM

# ISLA214P50IR72EV1Z

## ISLA214P50IR72EV1Z Layers

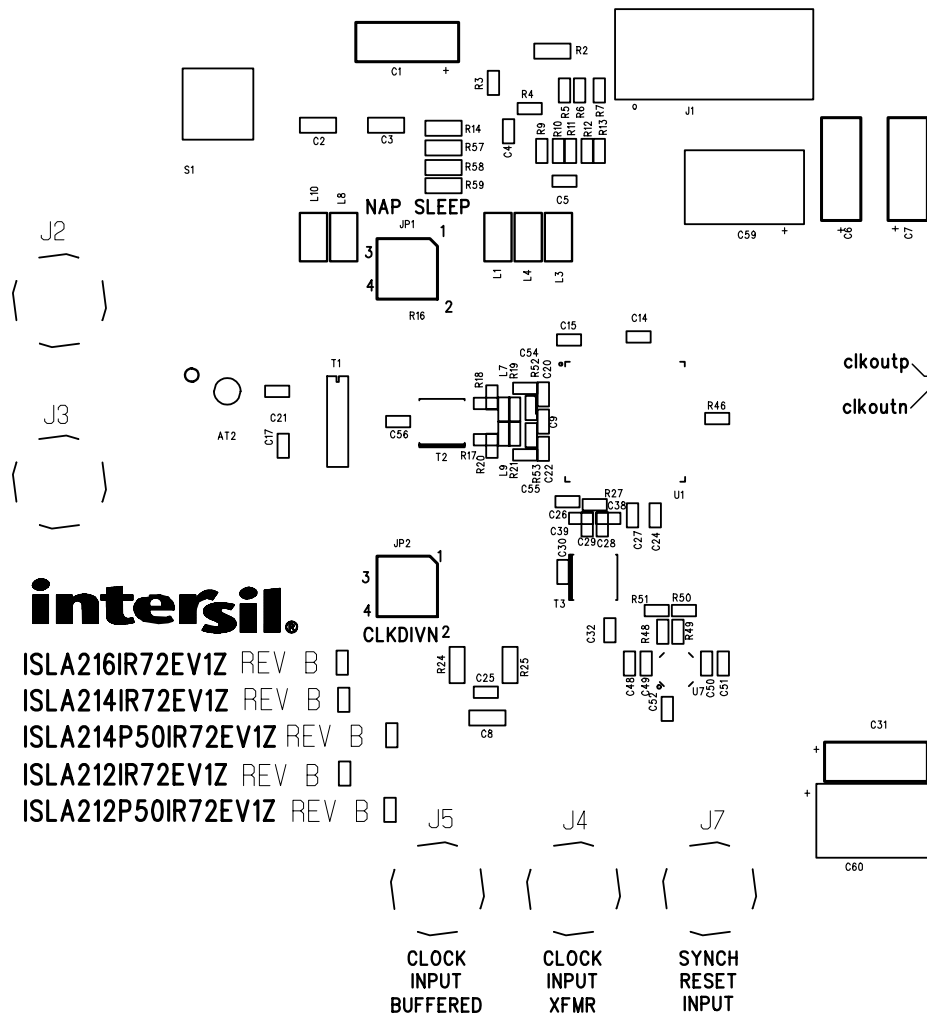


FIGURE 4. TOP SILKSCREEN

## ISLA214P50IR72EV1Z Layers (Continued)

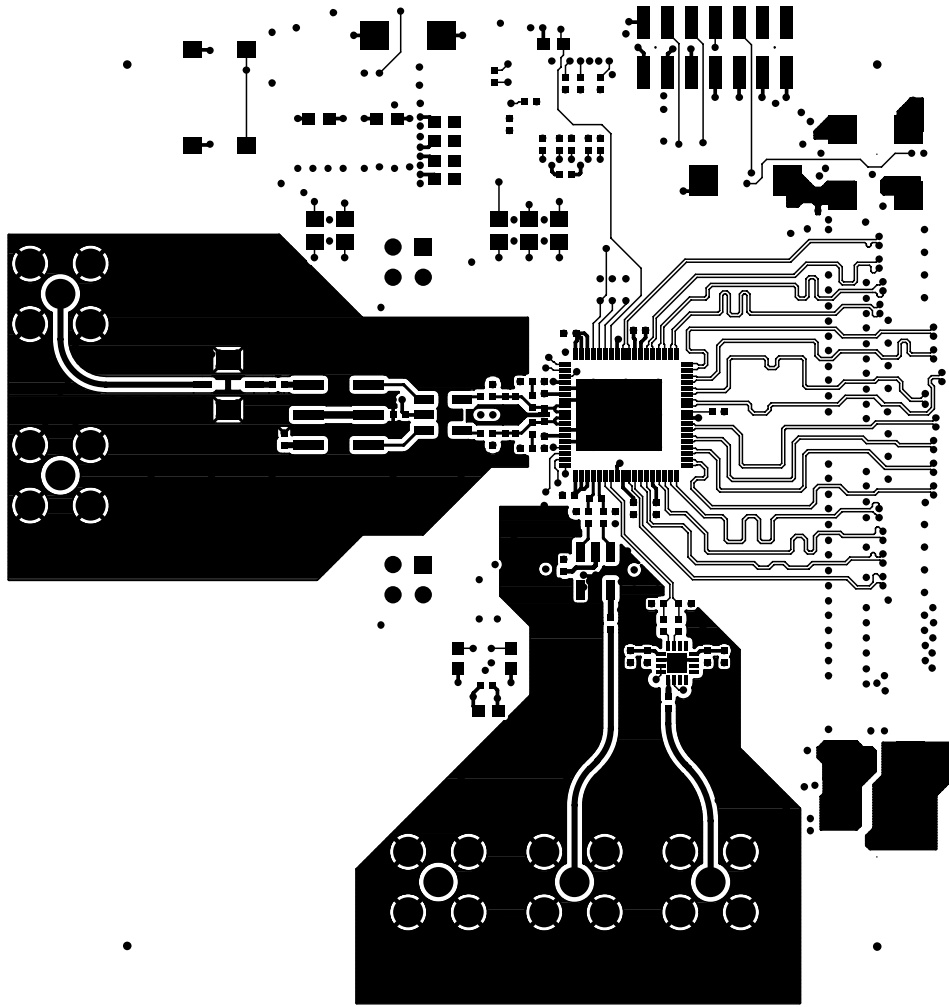
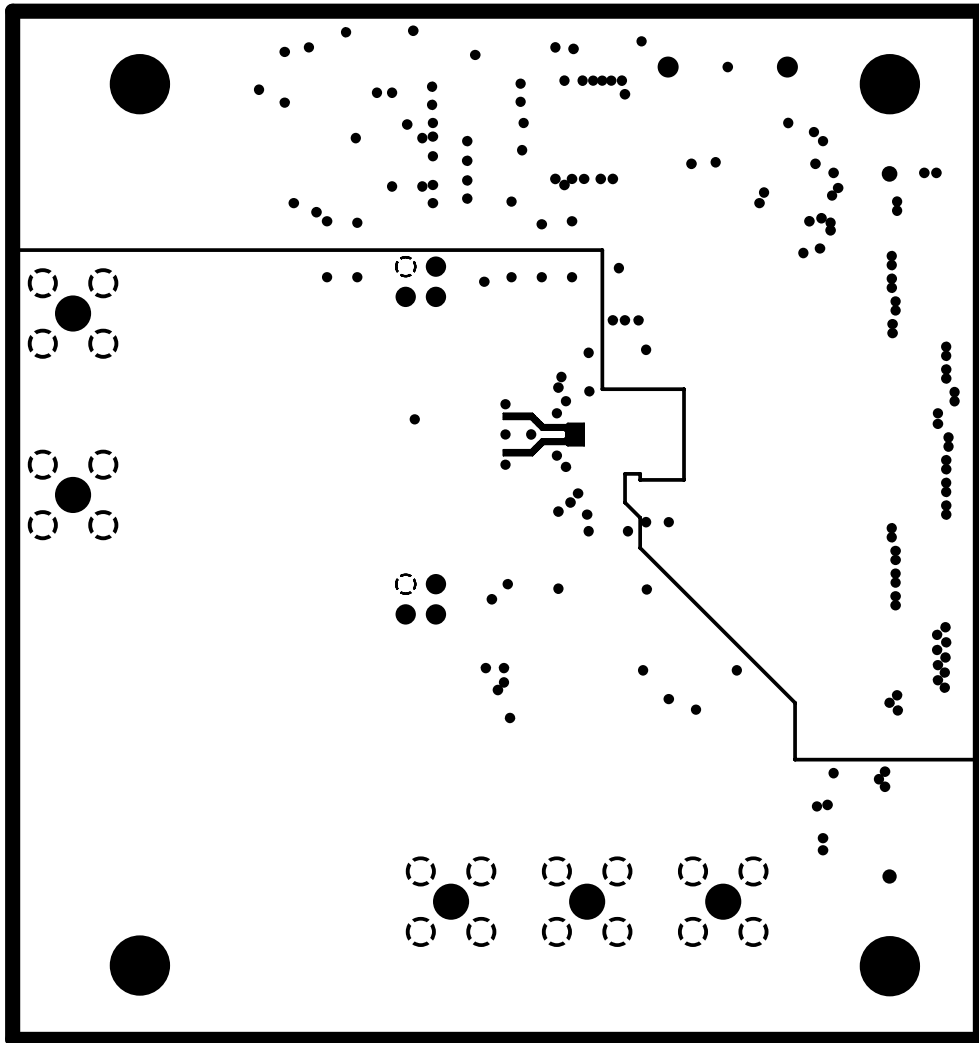


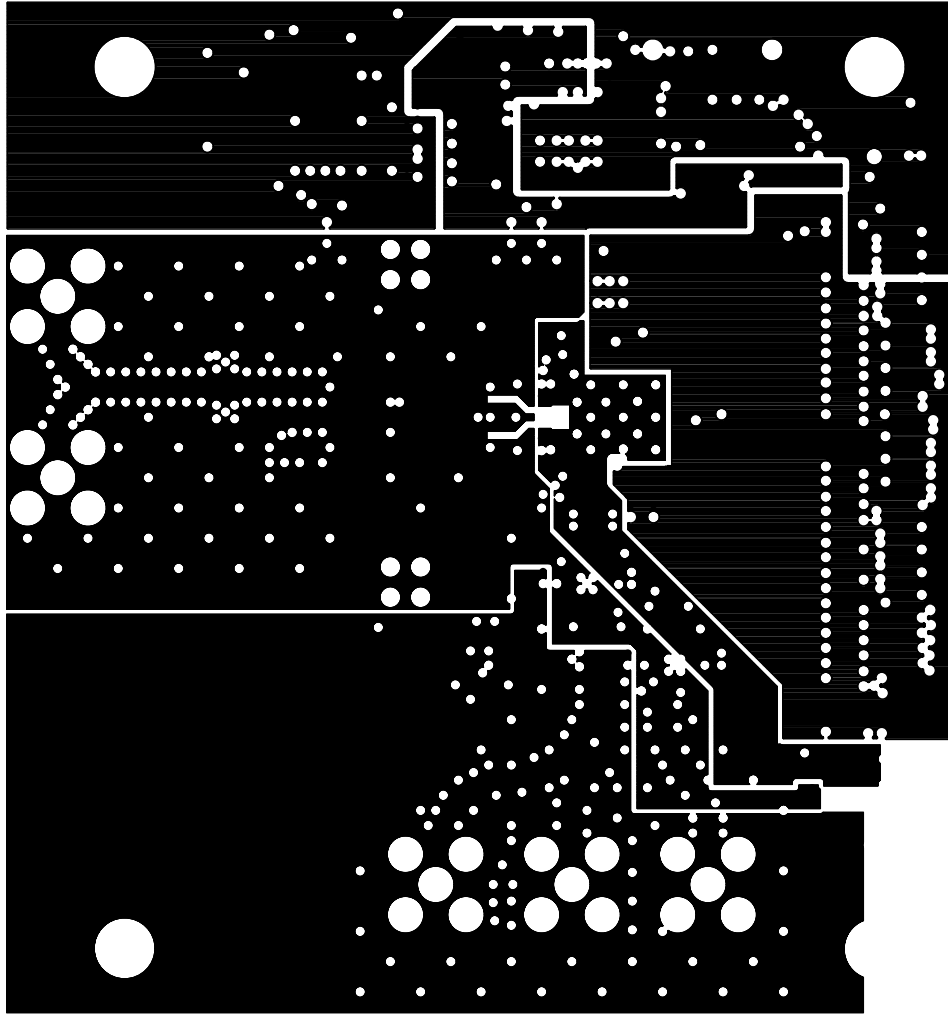
FIGURE 5. TOP LAYER ROUTING

**ISLA214P50IR72EV1Z Layers** (Continued)



**FIGURE 6. SPLIT GROUND PLANE**

**ISLA214P50IR72EV1Z Layers** (Continued)



**FIGURE 7. SPLIT POWER PLANE**



## ISLA214P50IR72EV1Z Layers (Continued)

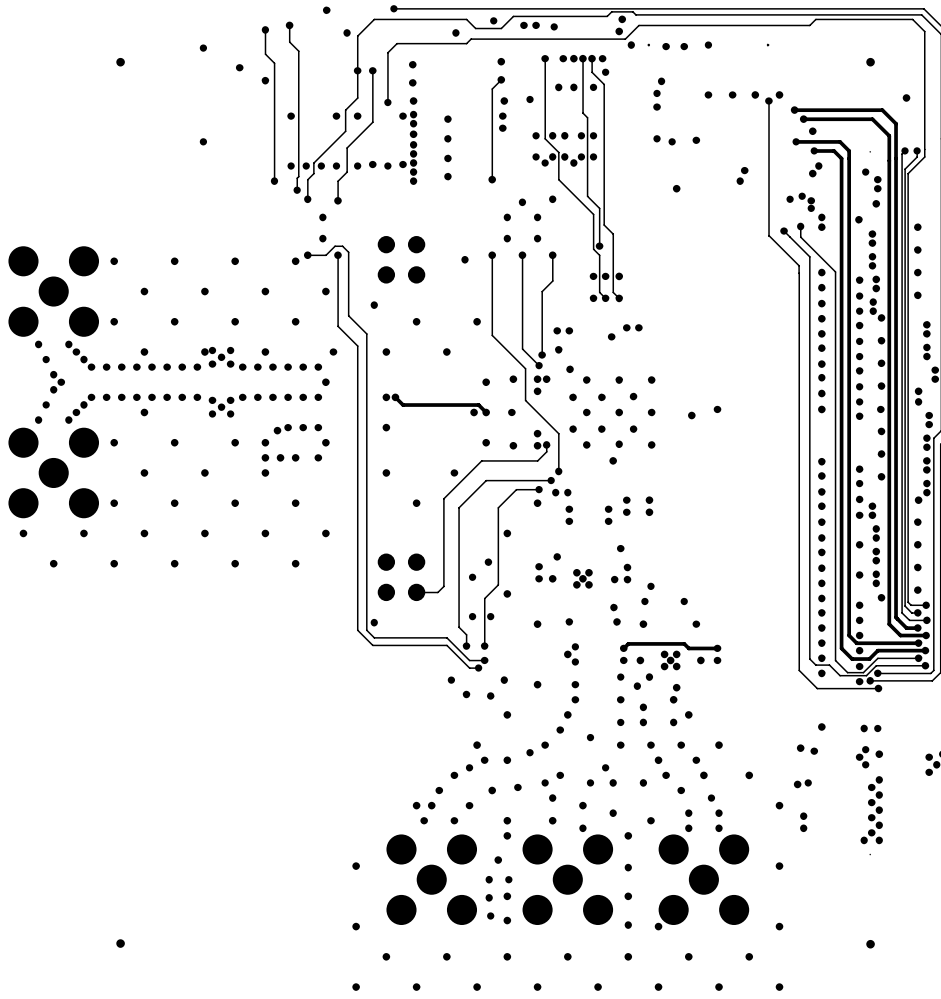


FIGURE 8. INNER LAYER ROUTING

ISLA214P50IR72EV1Z Layers (Continued)

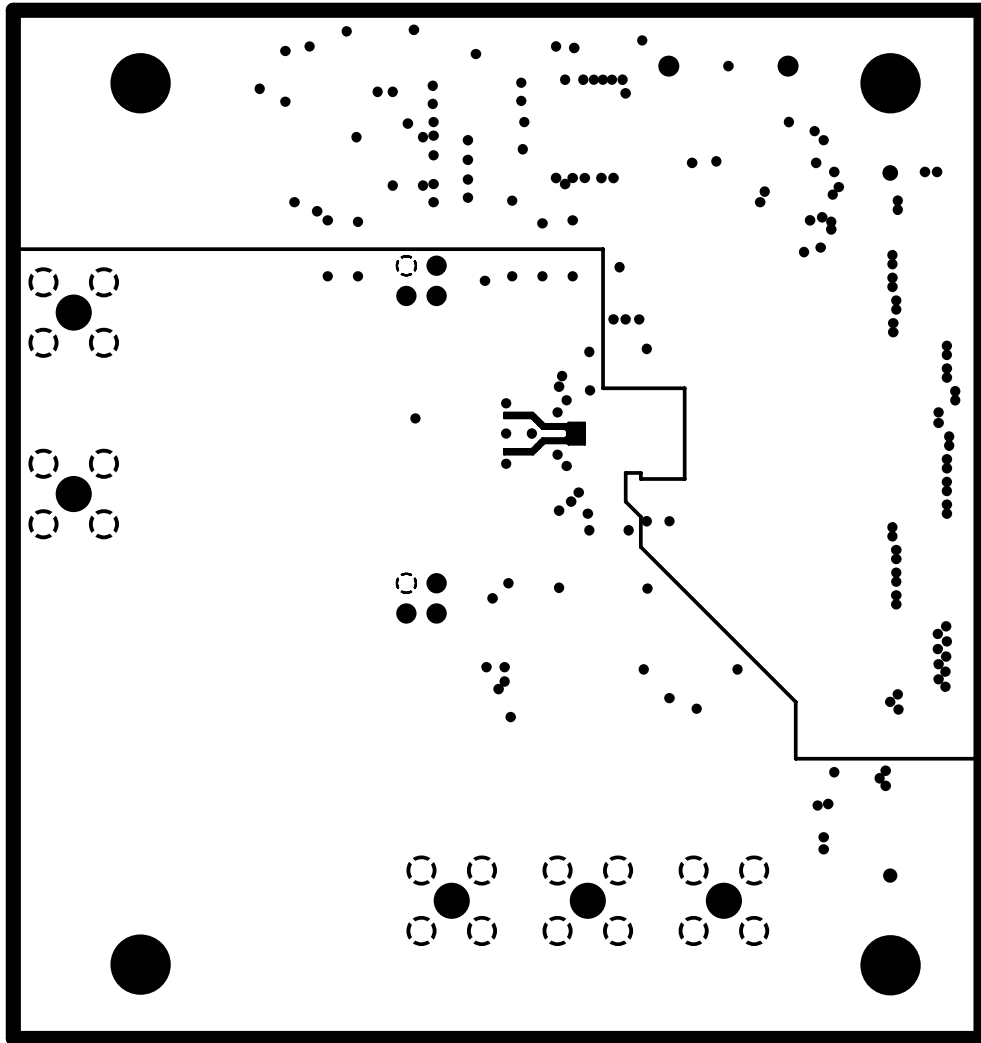


FIGURE 9. 2ND SPLIT GROUND PLANE

## ISLA214P50IR72EV1Z Layers (Continued)

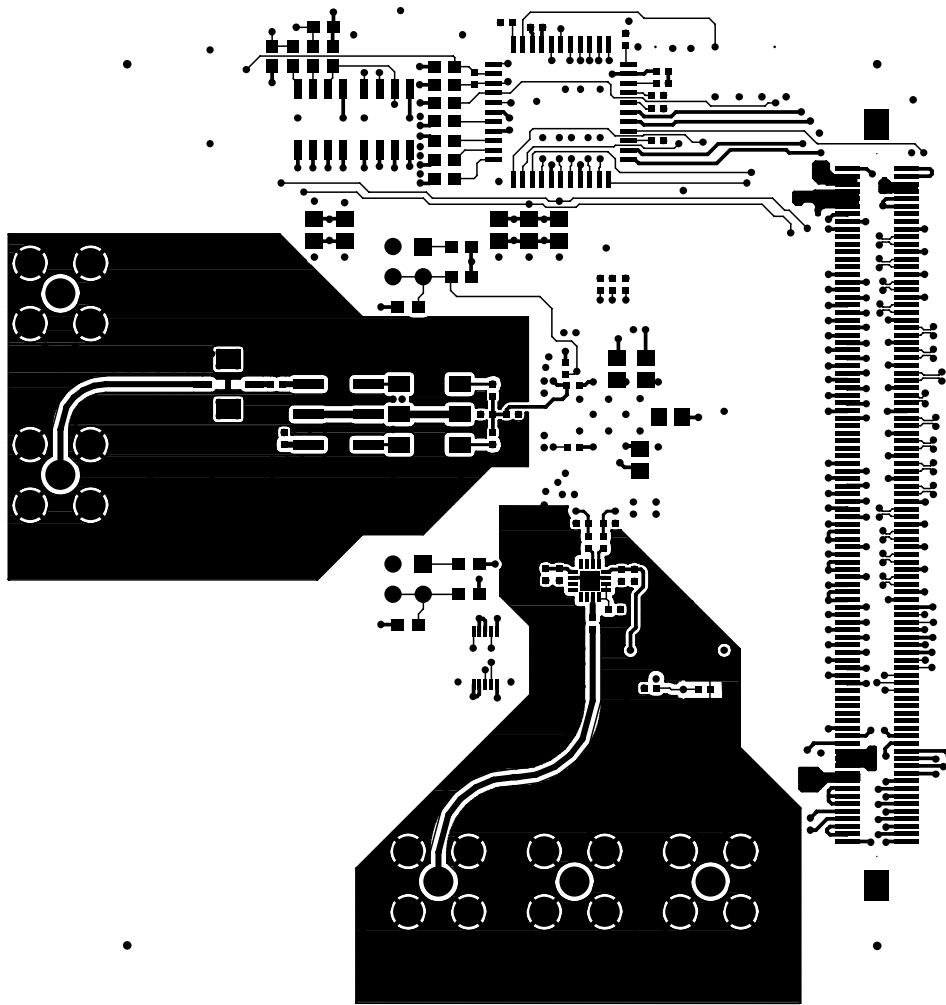


FIGURE 10. BOTTOM LAYER ROUTING

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## ISLA214P50IR72EV1Z Layers (Continued)

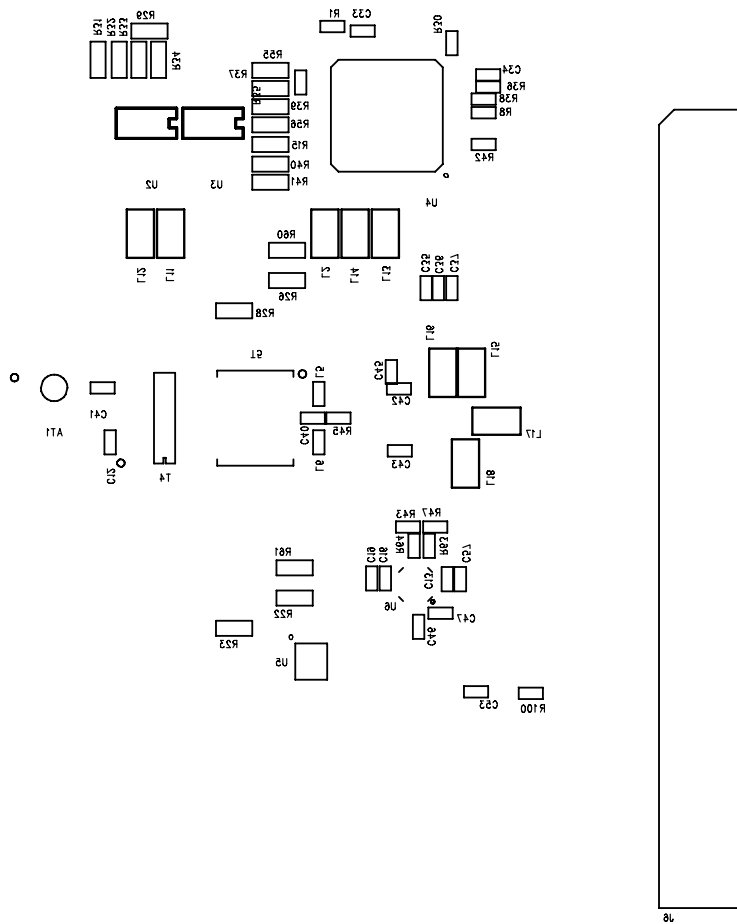


FIGURE 11. BOTTOM SILKSCREEN

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