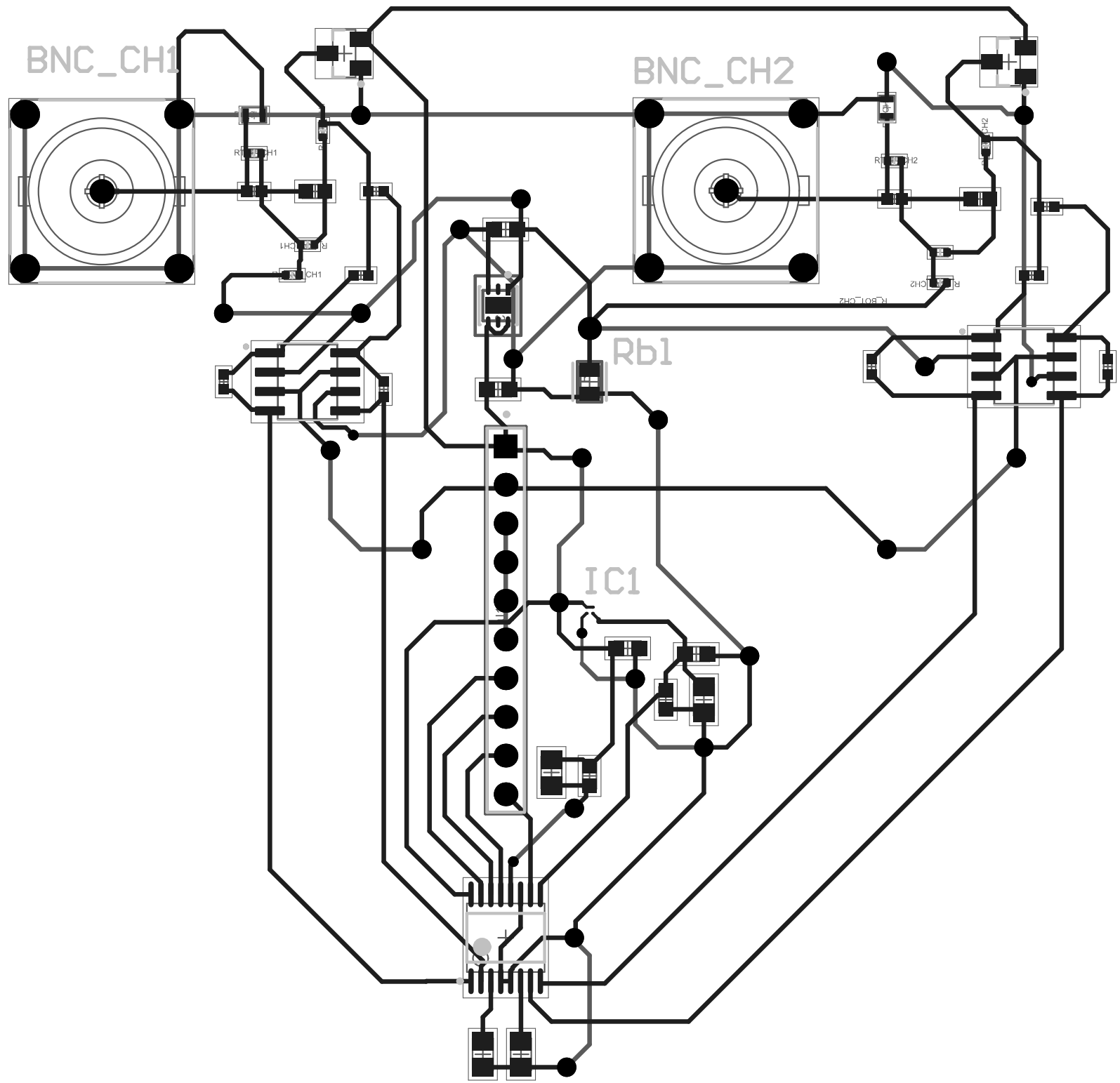


Title			
MADAM3 OSCILLOSCOPE: CHANNEL 1			
Size	Number		Revision
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Date:	2/09/2026		Sheet of
File:	C:\Users\...\AFE_CH1.SchDoc		Drawn By:





Comment	Description	Designator	Footprint	LibRef	Quantity
71K101-400A5	75R BNC Straight Jack, Up to 4 GHz, -65 to 165 degC	BNC_CH1, BNC_CH2	ROS-71K101-400A5_V	CMP-0757-00001-1	2
Capacitor 1 uF +/- 10% 16 V 0603	Chip Capacitor, 1 uF, +/- 10%, 16 V, 0603 (1608 Metric)	C1.2i, C1.2o, C2.5i, C2.5o	CAPC1608X94X35NL1 5T15	CMP-001-00003-6	4
Capacitor 100 nF +/- 10% 50 V 0603	Chip Capacitor, 100 nF, +/- 10%, 50 V, 0603 (1608 Metric)	C_AC_CH1, C_AC_CH2, Cvdd1, Cvdrive1	CAPC1608X90X40NL1 0T20	CMP-001-00017-6	4
Capacitor 15 pF +/- 0.1pF 25 V 0402	Chip Capacitor, 0.5 pF, +/- 0.1pF, 25 V, 0402 (1005 Metric)	C_COMP_TOP_CH1	CAPC1005X56X25ML1 0T15	CMP-001-00002-6	1
Capacitor 0.5 pF +/- 0.1pF 25 V 0402	Chip Capacitor, 0.5 pF, +/- 0.1pF, 25 V, 0402 (1005 Metric)	C_COMP_TOP_CH2	CAPC1005X56X25ML1 0T15	CMP-001-00002-6	1
Capacitor 10 uF +/- 10% 16 V 0805	Chip Capacitor, 10 uF, +/- 10%, 16 V, 0805 (2012 Metric)	Crefa, Crefb, Cvdd2, Cvdrive2	CAPC2013X135X45NL 10T25	CMP-001-00015-6	4
ESDA25P35-1U1M	TVSDIODE 22V 41V 1610	D1_CH1, D1_CH2	STM-QFN1610	CMP-004-00023-3	2
BAT54S	Schottky Barrier Diode, 30 V, 0.2 A, -55 to 150 degC, 3-Pin SOT23, RoHS, Tape and Reel	D2_CH1, D2_CH2	FAIR-SOT23-3_V	CMP-004-00013-2	2
ADP151ACBZ-2.5-R7	Integrated Circuit	IC1	BGA4C40P2X2_76X76 X66	ADP151ACBZ-2.5-R7	1
4-644456-0	CONN HEADER VERT 10POS 2.54MM	J1	FP-4-644456-0-MFG	CMP-03369-000038-1	1
THS4521IDR	Very low power rail-to-rail output fully differential amplifier	OP_CH1, OP_CH2	SOIC127P599X175-8N	CMP-008-000000-1	2
Resistor 1M +/-1 % 0402 63 mW	Chip Resistor, 1 MOhms, +/-1 %, 63 mW, -55 to 155 degC, 0402	R_BIAS_CH1, R_BIAS_CH2, R_SER_CH1, R_SER_CH2, RTOP_CH1, RTOP_CH2	RESC0402(1005)_L	CMP-009-00165-3	6
Resistor 100K +/-1 % 0402 63 mW	Chip Resistor, 100 kOhms, +/-1 %, 63 mW, -55 to 155 degC, 0402	R_BOT_CH1, R_BOT_CH2	RESC0402(1005)_L	CMP-009-00168-3	2
CRGCQ0805J1K0	CRGCQ 0805 1K0 5%	Rbl	FP-CRGCQ0805-IPC_C	CMP-03211-006849-1	1
Resistor 1k +/-1% 0402 63 mW	Chip Resistor, 1 KOhm, +/-1 %, 63 mW, -55 to 155 degC, 0402 (1005 Metric)	Rf1_CH1, Rf1_CH2, Rf2_CH1, Rf2_CH2, Rg1_CH1, Rg1_CH2, Rg2_CH1, Rg2_CH2	RESC1005X40X25ML0 5T05	CMP-009-00012-5	8
AD7356BRUZ-RL	Dual 12-Bit SAR Analog-to-Digital Converter with Serial, SPI Interface, Simultaneous Sampling, 5MSPS, -40 to +85 degC, RU-16, Pb-Free, Reel	U1	RU-16_N	CMP-0313-01897-2	1
ADP151ACPZ-1.2-R7	ADP151ACPZ-1.2-R7 Fixed Positive LDO Regulator, 1.2V, 0.23V Dropout, CMOS, PDSO6	U3	FP-CP-6-3-IPC_A	CMP-00026-20155214-1	1