Main Circuit And Support

U1
MAX9814 microphone amplifier with AGC, 40/50/60dB

A/R	A/R	MICBIAS	MICBIAS
CG	CG	MICIN	MICIN
CMICBIAS	CMICBIAS	OUT	OUT
CT	CT	SHDN	SHDN
GND	EP	TH	TH
GAIN	GAIN	VDD	VIN
GND	GND		

CMICBIAS — C3 — 1µF 50V X5R — GND

CT — C4 — 470nF 25V X7R — GND

CG — C5 — 2.2µF 16V X5R — GND

Main Circuit And Support

MIC_OUT — C6 — 100nF 50V X7R — MICIN

MICBIAS — C7 — 1µF 50V X5R — GND

TH — R4 — 100k ohm 1% — GND

VIN — R3 — 100k ohm 1% — TH

Main Circuit And Support

VIN — R5 — 100k ohm 1% — SHDN

Power And Indicators

U2
Analog MEMS mic -38dB bottom port

GND	GND
OUT	MIC_OUT
VDD	MICBIAS

VIN — C1 — 10µF 10V X5R — GND

VIN — C2 — 100nF 50V X7R — GND

DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

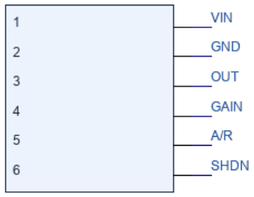
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PROJECT / DOCUMENT: Max9814 Agc Microphone			STATUS: DESIGN REVIEW
DRAWN BY: ElectroTrical	CHECKED BY: -	DATE: 2026-11-12	REVISION: A
DOCUMENT NUMBER: ET-S73-SCH-001		FORMAT: A3 / LANDSCAPE	SHEET: 1 of 2

Connectors

J3 DNP

2.54mm male pin header (ship loose)



DESIGN NOTES

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PROJECT / DOCUMENT			STATUS
Max9814 Agc Microphone			DESIGN REVIEW
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-S73-SCH-002		A3 / LANDSCAPE	2 of 2