

Part	Type	Mounting	Value	Device	Package/Size	Purpose	Optional?	Mouser PartNo	
C1	Cap - X7R	SMT	100nF	C-EUC1206	C1206	tda1387 pin5 vdd decoupling	No	80-C1206C104K5R	
C2	Cap - X7R	SMT	100nF	C-EUC1206	C1206				
C15	Cap - X7R	SMT	100nF	C-EUC1206	C1206				
C37	Cap - X7R	SMT	100nF	C-EUC1206	C1206				
C27	Cap - X7R	SMT	100nF	C-EUC1206	C1206				
C33	Cap - X7R	SMT	100nF	C-EUC0805	C0805	tda1387 pin5 vdd decoupling	No	80-C0805C104K5R	
C17	Cap - X7R	SMT	100nF	C-EUC0805	C0805				
C22	Cap - X7R	SMT	100nF	C-EUC0805	C0805				
C3	Cap - Film	ThroughHole	10uF	C15/9	C15B9	Output DC-blocking caps	Direct I-Out:YES; Psv IV:NO	667-ECQ-E1106KF	
C4	Cap - Film	ThroughHole	10uF	C15/9	C15B9				
C14	Cap - Film	ThroughHole	10uF	C15/9	C15B9				
C20	Cap - Film	ThroughHole	10uF	C15/9	C15B9				
C7	Cap - Electrolytic	SMT	1000uF	CPOL-EU153CLV-1014	153CLV-1014	tda1387 pin5 vdd decoupling	Yes	647-RPS1A561MCN1GS	
C8	Cap - Electrolytic	SMT	1000uF	CPOL-EU153CLV-1014	153CLV-1014				
C9	Cap - Electrolytic	SMT	1000uF	CPOL-EU153CLV-1014	153CLV-1014				
C10	Cap - Electrolytic	SMT	1000uF	CPOL-EU153CLV-1014	153CLV-1014				
C12	Cap - X7R	SMT	1uF	C-EUC1206	C1206	HC86 vcc decoupling	No	963-UMJ316BB7105MLHT	
C16	Cap - Film	ThroughHole	1nF	C5/4.5	C5B4.5	passive IV HF filter	Direct I-Out:YES; Psv IV:NO	505-FKP2L011001G00JS	
C18	Cap - Film	ThroughHole	1nF	C5/4.5	C5B4.5				
C21	Cap - Film	ThroughHole	1nF	C5/4.5	C5B4.5				
C30	Cap - Film	ThroughHole	1nF	C5/4.5	C5B4.5				
C11	Cap - Electrolytic	ThroughHole	2200uF	CPOL-EUE5-13	E5-13	main power supply decoupling	no	647-UPS1A222MHD	
C25	Cap - Electrolytic	ThroughHole	2200uF	CPOL-EUE5-13	E5-13				
C5	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5	tda1387 pin7 vref cap	min 1/tda1387, 2nd optional	667-EEU-FR1A102LB	

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C6	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C13	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C19	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C23	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C24	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C29	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C31	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C35	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C40	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C41	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C42	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C43	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C44	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C45	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
C46	Cap - Electrolytic	ThroughHole	1000uF	CPOL-EUE5-8.5	E5-8,5				
IC2	Integrated Circuit	SMT	74HC86D	74HC86D	SO14	I2S buffer/inverter	No	595-SN74HC86DR	
J1	Pin Header	ThroughHole	FEMALE 2x	M03X2FEMALE	2X3	I2S Input	No		
J2	Pin Header	ThroughHole	VDD_5V	M02LOCK	1X02_LOCK	Power Supply Input	No		
J4	Pin Header	ThroughHole	RIGHT	M03LOCK_LONGPADS	1X03_LOCK_LC	Right Channel Output	No		
J5	Pin Header	ThroughHole	LEFT	M03LOCK_LONGPADS	1X03_LOCK_LC	Left Channel Output	No		
JP1	Jumper	ThroughHole		JP2E	JP2	direct I-out or passive IV	No		
JP2	Jumper	ThroughHole		JP2E	JP2				
JP4	Jumper	ThroughHole		JP2E	JP2				
JP5	Jumper	ThroughHole		JP2E	JP2				
JP3	Jumper	ThroughHole		JP2E	JP2	HC86 inverting or not	No		
LED1	LED	SMT	GREEN	LEDSMT1206	1206	power-on LED	Yes	743-S126ATG	
R7	Resistor	ThroughHole	675	R-US_0207/7	0207/7	i/v resistor	Direct I-Out:YES; Psv IV:NO	660-MFS1/4DCT52R6800	
R25	Resistor	ThroughHole	675	R-US_0207/7	0207/7				

[illegible]

Part	Type	Mounting	Value	Device	Package/Size	Purpose	Optional?	Mouser PartNo	
H1			MOUNT-HO	MOUNT-HOLE3.0	3,0				
H2			MOUNT-HO	MOUNT-HOLE3.0	3,0				
H3			MOUNT-HO	MOUNT-HOLE3.0	3,0				
H4			MOUNT-HO	MOUNT-HOLE3.0	3,0				
PAD1			C14	2,54/1,0	2,54/1,0	C3, C4, C14, C20 extra pads for different size caps			
PAD2			C14	2,54/1,0	2,54/1,0				
PAD3			C3	2,54/1,0	2,54/1,0				
PAD4			C3	2,54/1,0	2,54/1,0				
PAD5			C4	2,54/1,0	2,54/1,0				
PAD6			C4	2,54/1,0	2,54/1,0				
PAD7			C20	2,54/1,0	2,54/1,0				
PAD8			C20	2,54/1,0	2,54/1,0				