

PCM1864CMB

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPC B1	1		Printed Circuit Board		TIDA-01454	Any	-	-
C1, C2, C3, C4, C5, C6, C7, C17, C23, C25, C29, C31, C37, C39	14	0.1uF	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	0603	GRM188R71C104KA01D	MuRata		
C8, C9, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C30, C32, C33, C34, C35, C36	20	10uF	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 0805	0805	GRM21BR71A106KE51K	MuRata		
C24, C26, C38, C40	4	1uF	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603	GRM188R71C105KA12D	MuRata		
C27, C28	2	18pF	CAP, CERM, 18 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603	GRM1885C1H180JA01D	MuRata		
D1	1	Green	LED, Green, SMD	LED_0805	LTST-C171GKT	Lite-On		
D2, D3	2	Blue	LED, Blue, SMD	Blue LED	SMLP12BC7TT86	Rohm		
H1, H2, H3, H4	4		MACHINE SCREW PAN PHILLIPS M3 5mm	Screw M3 Phillips head	MPMS 003 0005 PH	B&F Fastener Supply		
H5, H6, H7, H8	4		Standoff, Hex, 25mm Length, M3, Aluminum	Standoff M3	24438	Keystone		
H9	1		CBL012 Cable Assembly	CBL012	CBL012	Used in BOM report	-	-
J2, J4, J7, J8	4		Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator	PBC02SAAN	Sullins Connector Solutions		
J3	1		Receptacle, 100mil, 8x2, Gold, R/A, TH	Header, 8x2, 2.54mm, R/A	PPPC082LJBN-RC	Sullins Connector Solutions		
J5	1		Header, 100mil, 10x2, Gold, TH	10x2 Header	TSW-110-07-G-D	Samtec		
J6	1		Header, 2.54mm, 2x2, Gold, TH	Header, 2.54mm, 2x2, TH	PBC02DAAN	Sullins Connector Solutions		
MIC1, MIC2, MIC3, MIC4, MIC5, MIC6, MIC7, MIC8	8		Wide Bandwidth, Low Noise, Precision Top Port SiSonic Microphone, SMD	3.5x2.65mm	SPH1642HT5H-1	Knowles Acoustics		
Q1, Q2	2	40 V	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23	MMBT2222A	Fairchild Semiconductor		
R1, R2, R3, R4, R6, R7, R8, R9, R10, R11, R12, R13, R16, R17, R19, R21, R40, R41, R42, R43, R45, R46, R49, R50, R51, R52, R54, R55, R56, R57, R59, R60, R61, R62	34	49.9	RES, 49.9, 1%, 0.063 W, 0402	0402	RC0402FR-0749R9L	Yageo America		
R5	1	10.0k	RES, 10.0 k, 1%, 0.1 W, 0603	0603	ERJ-3EKF1002V	Panasonic		
R14, R15, R27, R28, R29, R30, R36, R37, R38, R39	10	2.21k	RES, 2.21 k, 1%, 0.063 W, 0402	0402	CRCW04022K21FKED	Vishay-Dale		
R18	1	360	RES, 360, 5%, 0.063 W, 0402	0402	CRCW0402360RJNED	Vishay-Dale		
R20, R53	2	100	RES, 100, 1%, 0.1 W, 0402	0402	ERJ-2RKF1000X	Panasonic		
R22, R23, R24, R25, R26, R31, R32, R33, R34, R35, R44, R48	12	0	RES, 0, 5%, 0.1 W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale		
R47, R58	2	2.15k	RES, 2.15 k, 1%, 0.063 W, 0402	0402	CRCW04022K15FKED	Vishay-Dale		
SH1, SH2, SH3, SH4	4	1x2	Shunt, 100mil, Gold plated, Black	Shunt	SNT-100-BK-G	Samtec	969102-0000-DA	3M
TP1, TP2	2		Test Point, 50x20mils, TH	Purple Multipurpose Testpoint	5129	Keystone		

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TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34, TP35, TP36, TP37, TP38,	52		Test Point, 50x30mils, TH	Purple Multipurpose Testpoint	5129	Keystone		
U1, U2	2		Universal Microphone to 2VRMS Analog input, 24-Bit, 192 kHz Stereo Front-End, DBT0030A	DBT0030A	PCM1864DBTR	Texas Instruments	PCM1864DBT	Texas Instruments
U3, U5, U7	3		Single Bus Buffer Gate With 3-State Output, DCK0005A	DCK0005A	SN74LVC1G125DCKR	Texas Instruments	SN74LVC1G125DCKT	Texas Instruments
U4, U6, U8	3		Single Bus Buffer Gate With 3-State Output, DCK0005A	DCK0005A	SN74LVC1G126DCKR	Texas Instruments	SN74LVC1G126DCKT	Texas Instruments
Y1	1		Crystal, 24.576MHz, 18 pF, TH	11.5x5mm	9B-24.576MEEJ-B	TXC Corporation		
FID1, FID2, FID3	0		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A		
J1	0		Header, 100mil, 4x2, Tin, TH	Header, 4x2, 100mil, Tin	PEC04DAAN	Sullins Connector Solutions		

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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