

MPC5553EVB, REV E2

Item	Qty	P/N	Title	Detail	Reference(m)	Vendor	Vendor P/N	Mfr	Mfr P/N
2	2	CCS102V50D	Cap-Cer-Smt(R)	(0805) 1000pF,50V	C53,C117	Emtek	MA0805XR102K500	Meritek	MA0805XR102K500
3	40	CCS103V10CI	Cap-Cer-Smt(R)	(0306) 10000PF,10V, 10%,Low Ind	C59-C78,C81-C100	TTI	0306ZC103KAT2A	Avx	0306ZC103KAT2A
4	20	CCS103V50D	Cap-Cer-Smt(R)	(0805) .01uF,50V	C4,C5,C8,C21-C23,C25,C29,C33,C35,C37,C40,C43,C45,C55,C57,C58,C79,C80,C130	Emtek	MA0805XR103K500	Meritek	MA0805XR103K500
5	44	CCS104V50D	Cap-Cer-Smt(R)	(0805) .1uF,50V	C3,C6,C7,C9,C11,C12,C16,C20,C26,C27,C41,C47,C48,C51,C52,C102,C103,C105-C116,C119,C131,C133,C136,C137,C139,C144-C152	Emtek	MA0805XR104K500	Meritek	MA0805XR104K500
6	6	CCS105V16D	Cap-Cer-Smt(R)	(0805) 1uF,16V	C10,C13-C15,C17,C154	Emtek	MA0805XR105K160	Meritek	MA0805XR105K160
11	2	CCS106V10E	Cap-Cer-Smt(R)	(1206) 10uf,10V,X7R	C104,C153	Emtek		Unknown	
7	2	CCS150V50D	Cap-Cer-Smt(R)	(0805) 15pF,50V, npo/cog,5%	C1,C2	Emtek	MA0805CG150J500	Meritek	MA0805CG150J500
8	2	CCS220V50D	Cap-Cer-Smt(R)	(0805) 22pF,50V, npo/cog,5%	C134,C135	Emtek	MA0805CG220J500	Meritek	MA0805CG220J500
9	10	CCS222V50D	Cap-Cer-Smt(R)	(0805) 2200pF,50V	C30,C32,C122-C129	Emtek	MA0805XR222K500	Meritek	MA0805XR222K500
10	1	CCS225V10D	Cap-Cer-Smt(R)	(0805) 2.2uF,10V	C138	Emtek	MA0805XR225K100	Meritek	MA0805XR225K100
13	1	CCS390V50D	Cap-Cer-Smt(R)	(0805) 39pF,50V, npo/cog,5%	C31	Emtek	MA0805XR390K500	Meritek	MA0805XR390K500
12	1	CCS391V50D	Cap-Cer-Smt(R)	(0805) 390pF,50V, npo/cog,5%	C46	Emtek	MA0805XR391K500	Meritek	MA0805XR391K500
14	4	CCS471V50D	Cap-Cer-Smt(R)	(0805) 470pF,50V	C140-C143	Emtek	MA0805XR471K500	Meritek	MA0805XR471K500
17	1	CES107V50FE	Cap-Elec-Smt(R)	(SMF) 100uF,50V,8x10,Lesr	C19	FAI	UUD1H101MNL1GS	Nichicon	UUD1H101MNL1GS
16	1	CES226V50D	Cap-Elec-Smt(R)	(SMD) 22uF,50V,6x5	C18	Digi-Key	493-2300-1-ND	Nichicon	UUD1H220MCL1GS
15	1	CES476V10EBPMPC	Cap-Elec-Smt(R)	(SMD) 47uF,6.3V,6x5,Bi-Polar	C118	Mouser	647-UWPOJ470MCL	Nichicon	UWPOJ470MCL1GB
18	6	CTS106V10A	Cap-Tant-Smt(R)	(SMA) 10uF,10V	C24,C44,C54,C120,C121,C132	Arrow	TAJA106K010R	Avx	TAJA106K010R
19	5	CTS107V10D	Cap-Tant-Smt(R)	(SMD) 100uF,10V	C34,C36,C38,C39,C42	Avnet	TAJD107K010R	Avx	TAJD107K010R
20	1	CTS107V20V	Cap-Tant-Smt(R)	(SMV) 100uF,20V	C28	Avnet	TPSV107K020R0085 (No Cross)	Avx	TPSV107K020R0085
31	1	JBTT3-20	Conn-Barl-Thru(R)	Plug 2mm Barrel,RA	PWR	Emtek	SCD-014	Vimex	SCD-014-PB
32	2	JDT9SRA	Conn-DB9-Thru(R)	Socket (Female),RA	Can_Port,Com_1	Emtek	DNR-09SJB-SGF1	Keltron	DNR-09SJB-SGF1
33	1	JMS2X19	Conn-Mictor-Smt(R)	2x19,.5mm	Mictor	Arrow	2-5767004-2	Amp/Tyco	2-5767004-2
118	1	DNI-CONN	Conn-Not Installed		JP5,Nexus_Vstby,Robust,Powerport	Axiom	DNI-CONN		
34	3	JPTA1X1	Conn-Pin Hdr-Thru(R)	1x1 Header	GndTP	Emtek	PH1-1S-G-F1	Keltron	PH1-1S-G-F1
35	5	JPTA1X2	Conn-Pin Hdr-Thru(R)	1x2 Header	JP3,JP4,Motor_En,Lin_Pwr,Vrh_En	Emtek	PH1-2S-G-F1	Keltron	PH1-2S-G-F1
36	4	JPTA1X3	Conn-Pin Hdr-Thru(R)	1x3 Header	JP1,JP6,JP7,Sram_Sel	Emtek	PH1-3S-G-F1	Keltron	PH1-3S-G-F1
37	1	JPTA1X6FLH	Conn-Pin Hdr-Thru(R)	1x6 Header,Fric Lock,Hi-Back	Hall_Encoder	Avnet	22-27-2061	Molex	22-27-2061
38	3	JPTA1X8	Conn-Pin Hdr-Thru(R)	1x8 Header	Userdev,Led,Switch	Emtek	PH1-8S-G-F1	Keltron	PH1-8S-G-F1
39	4	JPTA2X18	Conn-Pin Hdr-Thru(R)	2x18 Header	AD5,AF5,B5,D5	Emtek	PH2-36S-G-F1	Keltron	PH2-36S-G-F1
40	1	JPTA2X2	Conn-Pin Hdr-Thru(R)	2x2 Header	JP2	Emtek	PH2-4S-G-F1	Keltron	PH2-4S-G-F1
41	1	JPTA2X20	Conn-Pin Hdr-Thru(R)	2x20 Header	Tpu_Port	Emtek	PH2-40S-G-F1	Keltron	PH2-40S-G-F1

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42	1	JPTA2X20SH	Conn-Pin Hdr-Thru(R)	2x20 Header,Shrouded	Unil_3Port	Arrow	N2540-6002RB	3M	N2540-6002RB
43	4	JPTA2X26	Conn-Pin Hdr-Thru(R)	2x26 Header	A1,A3,A23,A25	Emtek	PH2-52S-G-F1	Keltron	PH2-52S-G-F1
44	1	JPTA2X6	Conn-Pin Hdr-Thru(R)	2x6 Header	Can_Sel	Emtek	PH2-12S-G-F1	Keltron	PH2-12S-G-F1
45	1	JPTA2X7SH	Conn-Pin Hdr-Thru(R)	2x7 Header,Shrouded	Jtag	Arrow	N2514-6002RB	3M	N2514-6002RB
46	1	JYT2X2RA	Conn-Spec-Thru(R)	2X2 Minifit,Molex,RA	Lin_J1	Mouser	538-39-29-1048	Molex	39-29-1048
47	1	JYTRJ45-8	Conn-Spec-Thru(R)	8 Pin,RJ45 w/Magnetics,RA	J1	FAI	MIC24010-5101T-LF	Midcom	MIC24010-5101T-LF3
108	1	Y25MSA	Crystal-Smt(R)	(HC49S) 25MHz,18pF	Y2	Digi-Key	XC1305CT-ND	Ecs Int'l.	ECS-250-18-5PX-F-TR
109	1	Y8MSA	Crystal-Smt(R)	(HC49S) 8MHz,18pF	Y1	Avnet	FOXSDLF/080-20	Fox	FOXSDLF/080-20
22	1	DKBAT54CA	Dio-Smt(R)	(Sot23) BAT54C,Schtky, 30V, 200mA,Dual Com Cat	D5	Emtek	BAT54C	Micro Elec	BAT54C
23	1	DKSS12SE	Dio-Smt(R)	(SMA) SS12,Schtky,1A,20V	D7	Emtek	SS12		
24	1	DKSS36SJ	Dio-Smt(R)	(SMC) SS36,Schtky,3A,60V	D3	Mouser	821-SS36	Tiawan Semi	SS36
21	1	DGES3DFDICTSE	Dio-Sw-Smt(R)	(SMC) ES3D,Ultrafast Sw	D1	Digi-Key	ES3D-FDICT-ND	Diodes Inc.	ES3D-13-F
27	1	DTSMBJ24ASG	Dio-Trans Sup-Smt(R)	(SMB) SMBJ24A,600W	D6	Mouser	511-SMBJ24A	St Micro	SMBJ24A-TR
28	1	DTSMBJ40A	Dio-Trans Sup-Smt(R)	(SMB) SMBJ40A,40V,600w	D2	Digi-Key	SMBJ40ALFCT-ND	Littelfuse	SMBJ40A
29	2	FH001	Fuse Clip(R)	5mm,PC Mnt	F1_Clips	Mouser	534-3520	Keystone	3520
30	1	FZ002-03	Fuse-5x20mm(R)	1A,Slo Blo	F1	Mouser	576-0218001.HXP	Littelfuse	0218001.HXP
111	2	HH001	HDW-Heatsink-Smt(R)	Vreg,Dpak/DDpak	HeatsinkQ3,HeatsinkQ4	FAI	573300D00010-LF	AAVID	573300D00010G
113	5	HX004-01	HDW-Rubber Bumpon(R)	0.312"x0.2" (W x H),Flat Top	Feet	Mouser	517-SJ-67A1	3M	SJ-67A1
114	14	HX003-01	HDW-Shunt(R)	.10 Shunt	JP1(2),JP2-JP6,Can_Sel(6),Vrh_En,Motor_En	E-Call	0146-230-020	E-Call	0146-230-020
99	1	US4861TPA	IC-Amp-Smt(R)	(Soic8) TPA4861D,Audio	U8	Digi-Key	296-7014-1-ND	TI	TPA4861DR
100	2	US74125LV	IC-Buffer-Smt(R)	(Soic14) 74LV125,Quad	U5,U6	Arrow	SN74LV125AD	TI	SN74LV125AD
106	1	UST7221LMC	IC-Comprtr-Smt(R)	(Sot23-5) LMC7221BIM5,Cmos,Lv/Lp	U16	Arrow	LMC7221BIM5/NOPB	Nat Semi	LMC7221BIM5/NOPB
94	1	UQ83848DP	IC-Ethernet-Smt(R)	(Lqfp48) DP83848,10/100T,PHY	U17	FAI	DP83848IVV-LF	Nat Semi	DP83848IVV/NOPB
101	2	US7414LVC	IC-Inv-Smt(R)	(Soic14) 74LVC14,Hex Schmitt	U9,U10	Arrow	SN74LVC14AD	TI	SN74LVC14AD
98	1	US33661EF	IC-Lin-Smt(R)	(Soic8) MCZ33661E,Interface (alt TJA1020TD)	U7	Freescale	MCZ33661EF	Freescale	MCZ33661EF
103	1	US74CBT3125	IC-Logic-Smt(R)	(Soic14) 74CBT3125D,Quad FET SW	U15	Digi-Key	296-1165-5-ND	TI	SN74CBT3125D
102	1	USS74AC86SN	IC-Logic-Smt(R)	(Ssop14) 74AC86D,Quad Xor	U14	Digi-Key	296-4343-5-ND	TI	SN74AC86D
105	1	UST-NC7SZ08	IC-Logic-Smt(R)	(Sot23-5) NC7SZ08,Single And	U12	Mouser	512-NC7SZ08M5X	Fairchild	NC7SZ08M5X
92	1	UBMPC5553	IC-Microp-Bga(R)	MPC5553 (Moccasin)	U1	Freescale	PPC5553MVRA132	Freescale	PPC5553MVRA132
93	1	UH33730MC	IC-Pwr Sply-Smt(R)	(Hsop32) MC33730EK	U11	Freescale	Supplied	Freescale	MC33730EK
97	1	US202HIN	IC-RS232-Smt(R)	(Soic16) HIN202,Dual Xcvr	U3	Digi-Key	HIN202CBNZ-ND	Intersil	HIN202CBNZ
91	1	SUD14M	IC-Skt-Dip(R)	14 Pins,Machined Pin	X1	Emtek	ICSM-143-G	Keltron	ICSM-143-G
104	1	USS74CBTLV3861	IC-Switch-Smt(R)	(Ssop24) 74CBTLV3861,10 Bit Bus	U4	Avnet	74CBTLV3861QG	IDT	74CBTLV3861QG
107	1	UT74CBT16211SN	IC-Switch-Smt(R)	(Tssop56) SN74CBT16211,24 Bit FET Bus	U13	Digi-Key	296-1157-1-ND	TI	SN74CBT16211ADGGR
95	1	UQIS61LF25618	IC-Sync Sram-Smt(R)	(Tqfp100) IS61LF25618,256Kx18,Ind Temp (alt CY7C1325G)	U2	Arrow	IS61LF25618A-7.5TQLI	Issi	IS61LF25618A-7.5TQLI
96	1	US1050TJA	IC-Xcvr-Smt(R)	(Soic8) TJA1050,Can,Hi Speed Only	U18	Digi-Key	568-1151-1-ND	Philips	TJA1050TD-T
49	6	LSF330C	Ind-FB-Smt(R)	(0805) 330 Ohms@ 100M,1.5A	FB2-FB6,FB8	Avnet	BLM21PG331SN1D	Murata	BLM21PG331SN1D

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53	1	LTF580M01	Ind-FB-Thru(R)	580 Ohm,2.5T,Fastron Wide Band	FB1	Mouser	434-6H-751	Fastron	06H-751
50	1	LSPA10	Ind-Pwr-Smt(R)	(3316) 10uH,4A	L1	Coilcraft	DO3316P-103MLB	Coilcraft	DO3316P-103MLB
51	1	LSPA3R3	Ind-Pwr-Smt(R)	(3316) 3.3uH,6A	L3	Coilcraft	DO3316P-332MLB	Coilcraft	DO3316P-332MLB
52	1	LSPB22	Ind-Pwr-Smt(R)	(5022) 22uH,6A	L2	Coilcraft	D05022P-223MLB	Coilcraft	DO5022P-223MLB
48	1	LSA10F	Ind-Smt(R)	(1210) 10uH,Choke	L4	FAI	NL1210-100JTR-LF	Tdk	NLV32T-100J-PF
25	6	DLSB-G	LED-Smt(R)	(1206) Green	+1.5,+3.3,+5V,Lnk,Act,Spd	Emtek	150YG	Micro Elec	150YG
26	10	DLSB-R	LED-Smt(R)	(1206) Red	LED1-LED8,Fault,Reset	Emtek	150SR	Micro Elec	150SR
117	1	DNI-MISC	Misc-Not Installed		CT1-CT15,All TP's except GND(3x)	Axiom	DNI-MISC		
119	1	DNI-PART	Part-Not Installed		C56,R1,R2,R5,R73,R74,R81,R82,R166,D4,S0-S3,Vrl_En	Axiom	DNI-PART		
110	1	PCB-AXM0365	Pcb(R)	Rev E MPC5553EVB, 9x6,8 Lyr	PCB	BBG	PCB-AXM0365E		
57	7	RCS000D	Res-Carb-Smt(R)	(0805) 0 Ohm,5%	R9,R65-R67,R92,R95,R110	Emtek	CR10-000J	Meritek	CR10-000J
58	3	RCS001D	Res-Carb-Smt(R)	(0805) 1 Ohm,5%	R11,R78,R88	Emtek	CR10-001J	Meritek	CR10-001J
59	24	RCS102D	Res-Carb-Smt(R)	(0805) 1K Ohm,5%	R3,R4,R27,R77,R98,R100-R109,R126,R148-R151,R156-R159	Emtek	CR10-102J	Meritek	CR10-102J
60	1	RCS102G	Res-Carb-Smt(R)	(2010) 1K Ohm,5%	R93	Mouser	660-RK73H2HTTE1001F	Koa	RK73H2HTTE1001F
61	43	RCS103D	Res-Carb-Smt(R)	(0805) 10K Ohm,5%	R6-R8,R19-R26,R28-R31,R33,R35,R37,R39,R41,R43,R45,R47,R49-R57,R62,R79,R80,R83,R84,R87,R91,R94,R96,R97,R160	Emtek	CR10-103J	Meritek	CR10-103J
62	1	RCS104D	Res-Carb-Smt(R)	(0805) 100K Ohm,5%	R123	Emtek	CR10-104J	Meritek	CR10-104J
63	1	RCS105D	Res-Carb-Smt(R)	(0805) 1M Ohm,5%	R124	Emtek	CR10-105J	Meritek	CR10-105J
64	9	RCS121D	Res-Carb-Smt(R)	(0805) 120 Ohm,5%	R68,R113-R120	Emtek	CR10-121J	Meritek	CR10-121J
65	1	RCS151D	Res-Carb-Smt(R)	(0805) 150 Ohm,5%	R122	Emtek	CR10-151J	Meritek	CR10-151J
66	1	RCS152D	Res-Carb-Smt(R)	(0805) 1.5K Ohm,5%	R161	Emtek	CR10-152J	Meritek	CR10-152J
68	1	RCS183D	Res-Carb-Smt(R)	(0805) 18K Ohm,5%	R60	Emtek	CR10-183J	Meritek	CR10-183J
69	13	RCS202D	Res-Carb-Smt(R)	(0805) 2K Ohm,5%	R130-R140,R162,R163	Emtek	CR10-202J	Meritek	CR10-202J
70	2	RCS220D	Res-Carb-Smt(R)	(0805) 22 Ohm,5%	R127,R129	Emtek	CR10-220J	Meritek	CR10-220J
71	2	RCS223D	Res-Carb-Smt(R)	(0805) 22K Ohm,5%	R32,R125	Emtek	CR10-223J	Meritek	CR10-223J
73	4	RCS240D	Res-Carb-Smt(R)	(0805) 24 Ohm,5%	R152-R155	Emtek	CR10-240J	Meritek	CR10-240J
72	1	RCS243D	Res-Carb-Smt(R)	(0805) 24K Ohm,5%	R70	Emtek	CR10-243J	Meritek	CR10-243J
74	1	RCS333D	Res-Carb-Smt(R)	(0805) 33K Ohm,5%	R86	Emtek	CR10-333J	Meritek	CR10-333J
75	1	RCS431D	Res-Carb-Smt(R)	(0805) 430 Ohm,5%	R71	Emtek	CR10-431J	Meritek	CR10-431J
76	13	RCS471D	Res-Carb-Smt(R)	(0805) 470 Ohm,5%	R34,R36,R38,R40,R42,R44,R46,R48,R75,R76,R141-R143	Emtek	CR10-471J	Meritek	CR10-471J

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77	9	RCS472D	Res-Carb-Smt(R)	(0805) 4.7K Ohm,5%	R10,R58,R59,R63,R69,R85,R111,R164,R165	Emtek	CR10-472J	Meritek	CR10-472J
78	1	RCS473D	Res-Carb-Smt(R)	(0805) 47K Ohm,5%	R64	Emtek	CR10-473J	Meritek	CR10-473J
79	6	RMS1000D	Res-MF-Smt(R)	(0805) 100 Ohm,1%	R61,R89,R90,R99,R112,R121	Emtek	CR10-1000F	Meritek	CR10-1000F
80	1	RMS4871D	Res-MF-Smt(R)	(0805) 4.87K Ohm,1%	R128	Emtek	CR10-4871F	Meritek	CR10-4871F
81	4	RMS49R9D	Res-MF-Smt(R)	(0805) 49.9 Ohm,1%	R144-R147	Emtek	CR10-49R9F	Meritek	CR10-49R9F
82	1	RPT103W	Res-Pot-Thru(R)	(Type W) 10K Ohm,Top Adj	RV4	Emtek	3296W-1-103LF	Bourns	3296W-1-103LF
83	2	RPT502SQ	Res-Pot-Thru(R)	(Type SQ) 5K Ohm,Sq Black Shaft	RV1,RV2	Mouser	317-2090F-5K	Alpha	RV09AF-40-20K-B5K
84	1	RPT503SQ	Res-Pot-Thru(R)	(Type SQ) 50K Ohm,Sq Black Shaft	Spkr_Vol	Mouser	317-2080F-50K	Alpha	RV09AF-40-20K-A54
1	1	AUD004	Spkr-1W-Thru(R)	8 ohm, 14x25mm	Speaker	Digi-Key	GC0251K-ND	CUI Inc	GC0251K
86	1	SSD6-01	Sw-Dip-Smt(R)	6 Pos	Config_Sw	Arrow	2196MSTP	CTS	219-6MSTP
87	1	SSD8-01	Sw-Dip-Smt(R)	8 Pos	UserDipSwitch	Arrow	219-8MSTP	CTS	219-8MSTP
88	5	STP02	Sw-PB-Thru(R)	Tact Sw,6mm Sq	Reset,Switch1-Switch4	Emtek	EG1827	E-Switch	EG1827
85	2	STS04-1	Sw-Slide-Thru(R)	CGA4,SPDT,Mini,.35x.15	Vstby_Switch,Run_Stop	Emtek	SS-12D00-CGA4-PB FREE	Vimex	SS-12D00-CGA4-PB FREE
90	1	STT1-04	Sw-Toggle-Thru(R)	Horz,SPDT,5A DC,Mini	On_Off	Digi-Key	EG2362-ND	E-Switch	100SP1T2B4M6QE
54	1	QN2873SE	Trans-NPN-Smt(R)	(Dpak) NJD2873,Power	Q1	Avnet	NJD2873T4G	On Semi	NJD2873T4G
55	2	QNMJB44SE	Trans-NPN-Smt(R)	(DPak) MJB44,Power	Q3,Q4	Avnet	MJB44H11G	On Semi	MJB44H11G
56	1	QNMGBT3904SA	Trans-NPN-Smt(R)	(Sot23) MMBT3904, 40V,350mW	Q5	Emtek	MMBT3904	Taitron	MMBT3904