

# Bill of Materials

**TI DESIGNS**

Part # TPS65310A-Q1 EVM

Literature #

DESIGNATOR	QUANTITY	DESCRIPTION	VALUE/FUNCTION	MANUFACTURER	PART NUMBER
PCB	1	Printed Circuit Board	SIZE 95x95x1.5mm	Any	HLV037
C20	0		UNINSTALLED CAP0603	UNINSTALLED	CAP_0603 (UN)
C9	0		UNINSTALLED CAP0805	UNINSTALLED	CAP_0805 (UN)
J1, J19	2		HEADER, THU, 1x2, 2.54mm	SULLINS	PEC02SAAN
J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18	13		HEADER, THU, 1x3, 2.54mm	SULLINS	PEC03SAAN
R7, R22, R35	0		UNINSTALLED RES0805	UNINSTALLED	RES_0805 (UN)
PGND1, PGND2, PGND3, PGND5	4	BOGUS PART NOT INSTALLED	NOT INSTALLED OR KITTED		GND_SHORT
C21	1	CAP,SMT,0603	CAPACITOR,SMT,0603,CERAMIC,0.0027uF,50V,5%,X7R	AVX	06035C272JAT2A
C35, C36	2	CAP,SMT,0603	CAPACITOR,SMT,0603,CERAMIC,100pF,50V,5%,COGR	KEMET	C0603C101J5GAC
C18, C34, C37	3	CAP,SMT,0603	CAPACITOR,SMT,0603,CERAMIC,0.01uF,100V,5%,X7R	KEMET	C0603C103J1RAC
C3, C33, C38, C51	0	CAP,SMT,0603	UNINSTALLED CAPACITOR,SMT,0603,CER,0.01uF,100V,5%,X7R	KEMET	C0603C103J1RAC (UN)
C4, C6, C7, C15, C27, C44, C45, C50, C61, C62	10	CAP,SMT,0603	CAPACITOR,SMT,0603,CERAMIC,0.1uF,25V,5%,X7R	KEMET	C0603C104J3RAC
C22, C28, C39, C46, C48, C49, C52, C57, C63	9	CAP,SMT,0603	CAPACITOR,SMT,0603,CERAMIC,1.0uF,16V,10%,X5R	KEMET	C0603C105K4PAC
C16, C19	2	CAP,SMT,0603	CAPACITOR,SMT,0603,CERAMIC,COG(NPO),50V,5%,47pF	KEMET	C0603C470J5GAC
C17	1	CAP,SMT,0603	CAPACITOR,SMT,0603,CERAMIC,X7R,0.0047uF,50V,5%	KEMET	C0603C472J5RAC
C53, C54, C58, C59, C60	5	CAP,SMT,0805	CAPACITOR,SMT,0805,CERAMIC,0.1uF,50V,10%,X7R	KEMET	C0805C104K5RAC
C55, C56	2	CAP,SMT,0805	CAPACITOR,SMT,0805,CERAMIC,33pF,50V,5%,C0G(NP0)	KEMET	C0805C330J5GAC
C10, C11, C12, C13, C14, C23, C29, C30, C31, C40, C41, C42, C47	13	CAP,SMT,0805	CAPACITOR,SMT,0805,CERAMIC,10uF,10V,10%,X7R	MURATA	GRM21BR71A106KE51L
C5	1	CAP,SMT,0805	CAPACITOR,SMT,0805,CERAMIC,2.2uF,25V,10%,X7R	MURATA	GRM21BR71E225KA73L
C24	1	CAP,SMT,1206	CAPACITOR,SMT,1206,CER,10uF,35V,10%,X5R	MURATA	GRM31CR6YA106KA12L
C8	1	CAP,SMT,1210	CAPACITOR,SMT,1210,CERAMIC,2.2uF,100V,10%,X7R	KEMET	C1210C225K1RAC
C25, C26	2	CAP,SMT,1210	CAPACITOR,SMT,1210,CER,22uF,25V,10%,X5R	MURATA	GRM32ER61E226KE15L
C43	1	CAP,SMT,ALUM	CAPACITOR,SMT,2P,ALUM,180uF,16V,20%,.55-105C,ESR-0.022ohm@100K	VISHAY	94SVP187X0016E12
C32	0	CAP,SMT,ALUM	UNINSTALLED CAPACITOR,SMT,2P,ALUM,180uF,16V,20%ESR-0.022ohm@100K	VISHAY	94SVP187X0016E12 (UN)
C1, C2	2	CAPACITOR,SMT,ELEC	CAPACITOR,SMT,2P,ELEC,47uF,63V,20%,.40-125C	PANASONIC	EEETG1J470P
CON17	1	CON,THU,4P	USB RECEPTACLE,TYPE B, RIGHT ANGLE	WUERTH	61400416121
D1	1	DIODE,SMT	SCHOTTKY BARRIER DIODE,SMT,1A,150V	DIODES INC	DFLS1150
D3	1	DIODE,SMT,2P	SCHOTTKY RECTIFIER,SMT,80V,5A	COMCHIP	CDBC580-G
D4	1	DIODE,SMT,SOD123F	SCHOTTKY BARRIER DIODE,SMT,SOD123F,1A,20V	NXP	PMEG2010AEH
D5, D6	0	DIODE,SMT,SOD123F	UNINSTALLED SCHOTTKY BARRIER DIODE,SMT,SOD123F,1A,20V	NXP	PMEG2010AEH (UN)
Q4	1	FET,SMT,P-PG-TDSON-8-4,N-CHANNEL	HEXFET,N-CHANNEL,POWER MOSFET,P-PG-TDSON-8-4	INFINEON	IPG20N06S4L-26
Q3	1	FET,SMT,PowerPak SO8	P-CHANNEL,MOSFET,PowerPak SO8,-80V,-28A,0.029 RDS,83W	VISHAY	Si7469DP
Q1	1	FET,SMT,SOT23-3	P-CHANNEL,MOSFET,SOT23-3,-60V,-1.6A,0.45 RDS,1.7W	VISHAY	Si2309CDS
Q2	0	FET,SMT,SOT23-3	UNINSTALLED P-CHANNEL,MOSFET,SOT23-3,-60V,-1.6A,0.45 RDS,1.7W	VISHAY	Si2309CDS (UN)
IC4	1	IC,SMT,8P	1K MICROWIRE COMPATIBLE SERIAL EEPROM,2.5-5.5V	MICROCHIP	93LC46BT-I/SN
IC2	1	IC,SMT,LQFP-48	DUAL USB UART/ FIFO IC	FUTURE TECHNOLOGY DEVICES INT.	FT2232D
IC1	1	IC,SMT,QFN-56EP	DUT,SMT,QFN,56RTQ,0.5mmLS,8.15x8.15x1.0mm,THERMAL PAD	TI	TPS65310AQRVJQ1
IC5	1	IC,SMT,SO-8	LinCMOS TIMER, SMT, 3V-15V	TI	TLC555ID

IC3	1	IC,SMT,SOT363-6	QUAD SURFACE MOUNT SWITCHING DIODE ARRAY	DIODES INC	BAW567DW-7-F
L4, L5	2	INDUCTOR,SMT,2P	INDUCTOR,SMT,3.3uH,20%,2.3A	EPCOS	B82462G4332M000
L3	1	INDUCTOR,SMT,2P	INDUCTOR,SMT,SHIELD, 3.3uH	SUMIDA	CDRH3D28NP-3R3N
L1, L2	2	INDUCTOR,SMT,2P	INDUCTOR,SMT,10uH,20%,6.9A,SHIELD	COILCRAFT	MSS1260T-103ML
L6	1	INDUCTOR,THU,2P	INDUCTOR,SMT,POWER CHOKE,22uH,400mA30%	WUERTH	744028220
J2, J3, J4, J5, J20, J21, J22, J23, J24	9	JUMPER,SMD,2P,2.54	JUMPER,SMD,2P,2.54	FISCHER	SL 11 SMD 062
D2	1	LED,SMT,0805	SIDELED,SMT,0805,BLUE,3.4V	OSRAM	LBY87S-L1M2-35
R6, R8	2	RES,SMT,0603	RESISTOR,SMT,0603,0 OHM,1%,1/10W	VISHAY	CRCW06030000Z0
R2	1	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,100K	VISHAY	CRCW0603100KF
R5, R49, R50, R51, R52, R55, R62	7	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,10.0K	VISHAY	CRCW060310K0F
R63	1	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,11.5K	VISHAY	CRCW060311K5F
R39	1	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,1.74K	VISHAY	CRCW06031K74F
R56, R57, R58, R59	4	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,1.00M	VISHAY	CRCW06031M00F
R36	1	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,23.7K	VISHAY	CRCW060323K7F
R54	1	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,39.0K	VISHAY	CRCW060339K0F
R11, R20, R40	3	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,51.1	VISHAY	CRCW060351R1F
R64	1	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,5.76K	VISHAY	CRCW06035K76F
R10, R12	2	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,60.4K	VISHAY	CRCW060360K4F
R15	1	RES,SMT,0603	RESISTOR,SMT,0603,1%,1/10W,8.25K	VISHAY	CRCW06038K25F
R17	1	RES,SMT,0603	RESISTOR,SMT,0603,12K,0.1%,1/16W	PANASONIC	ERA-3YEB123V
R18, R27, R28, R29, R34	5	RES,SMT,0603	RESISTOR,SMT,0603,1.6K,0.1%,1/16W	PANASONIC	ERA-3YEB162V
R14, R16	2	RES,SMT,0603	RESISTOR,SMT,0603,16.0K,0.1%,1/16W	PANASONIC	ERA-3YEB163V
R38	1	RES,SMT,0603	RESISTOR,SMT,0603,820 OHM,0.1%,1/16W	PANASONIC	ERA-3YEB821V
R1	1	RES,SMT,0603	RESISTOR,SMT,0603,THIN FILM,10 OHM,0.1%,1/10W,25ppm	VISHAY	TNPW060310R0BE
R25, R26	2	RES,SMT,0603	RESISTOR,SMT,0603,THIN FILM,4.99K,0.1%,1/10W,25ppm	VISHAY	TNPW06034K99BE
R24, R32	2	RES,SMT,0603	RESISTOR,SMT,0603,THIN FILM,51.1 OHM,0.1%,1/10W	VISHAY	TNPW060351R1BE
R30, R31	2	RES,SMT,0603	RESISTOR,SMT,0603,THIN FILM,0.1%,1/10W, 806OHM	VISHAY	TNPW0603806RBE
R19	1	RES,SMT,0603	RESISTOR,SMT,0603,THIN FILM,8.45K,0.1%,1/10W	VISHAY	TNPW06038K45BE
R13, R21, R23, R33, R41	5	RES,SMT,0805	RESISTOR,SMT,0805,THICK FILM,1/8W,0 OHM	VISHAY	CRCW08050000Z
R48	1	RES,SMT,0805	RESISTOR,SMT,0805,THICK FILM,1%,1/8W,10.0K	VISHAY	CRCW080510K0F
R53	1	RES,SMT,0805	RESISTOR,SMT,0805,THICK FILM,1%,1/8W,1.00K	VISHAY	CRCW08051K00F
R60	1	RES,SMT,0805	RESISTOR,SMT,0805,THICK FILM,1%,1/8W,1.0M	VISHAY	CRCW08051M00F
R43, R44	2	RES,SMT,0805	RESISTOR,SMT,0805,THICK FILM,1%,1/8W,27.0 OHM	VISHAY	CRCW080527R0F
R46	0	RES,SMT,0805	UNINSTALLED RESISTOR,SMT,0805,THICK FILM,1%,1/8W,2.00K	VISHAY	CRCW08052K00F (UN)
R42, R47	2	RES,SMT,0805	RESISTOR,SMT,0805,THICK FILM,1%,1/8W,2.20K	VISHAY	CRCW08052K20F
R61	1	RES,SMT,0805	RESISTOR,SMT,0805,THICK FILM,1%,1/8W,470 OHM	VISHAY	CRCW0805470RF
R45	1	RES,SMT,0805	RESISTOR,SMT,0805,THICK FILM,1%,1/8W,47.0K	VISHAY	CRCW080547K0F
R3, R4	2	RES,SMT,0805	RESISTOR,SMT,0805,THICK FILM,680 OHM,5%,1/4W	PANASONIC	ERJ-P06J681V
R9	1	RES,SMT,1812	RESISTOR,SMT,1812,0.022 OHM,0.5W,1%	PANASONIC	ERJ-L12KF22MU
OSC1	1	RESONATOR,SMT,2P	RESONATOR,SMT,2P,CERAMIC,6.00 MHz	ABRACON	AWSZT-6.00MGD-T
SW1	1	SWITCH,SMT,4P	SWITCH, SMT, 4P, SPST, NO	BOURNS	7914G-1-000E
CON1, CON2, CON3, CON4, CON5, CON6, CON7, CON8, CON9, CON10, CON11, CON12, CON14, CON15, CON16, CON313	16	TESTPOINT,THU,1P	TEST POINTS,THU	BUERKLIN	12H6161
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26	26	TESTPOINT,THU,1P	TESTPOINT,THU,MINIATURE,0.1LS,120TL, WHITE	KEYSTONE	5002
R37	1	THERMISTOR,SMT,0603	THERMISTOR,SMT,0603,NTC,10K@25/C,1%	MURATA	NCP18XH103F03
	20	2.54mm JUMPER	2.54mm JUMPER	FISCHER	CAB 4 G S

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