



# Bill of Materials

Capacitive Touch Thermostat User Interface with CapTIvate Technology

TIDM-CAPTIVATE-THERMOSTAT-UI

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint
C1	1	0402	4.7uF	CAP, CERM, 4.7 $\mu$ F, 6.3 V, +/- 20%, X5R, 0402	TDK	C1005X5R0J475M050BC	0402
C2	1	0402	0.1uF	CAP, CERM, 0.1 $\mu$ F, 6.3 V, +/- 10%, X5R, 0402	TDK	C1005X5R0J104K	0402
C3	1	0402	1uF	CAP, CERM, 1 $\mu$ F, 6.3 V, +/- 20%, X5R, 0402	TDK	C1005X5R0J105M	0402
C4	1	0402	510pF	CAP, CERM, 510 pF, 25 V, +/- 5%, COG/NP0, 0402	MuRata	GRM1555C1E511JA01D	0402
C5, C6, C7, C8	4	0402	68pF	CAP, CERM, 68 pF, 50 V, +/- 5%, COG/NP0, 0402	MuRata	GRM1555C1H680JA01D	0402
D1, D2, D3, D4, D5, D6, D7, D8	8	1206		LED, Green, SMD, Reverse Mount, 1206	Dialight	597-6301-607F	1206_ReverseMount_LED
FID1, FID2, FID3	3	Fiducial		Fiducial mark. There is nothing to buy or mount.	N/A	N/A	Fiducial10-20
J1	1			Connector, Female, 10-Pin, 2 row, Right Angle	Samtec	SSW-110-22-F-D-RA	CONN2X10RA
J2	1	3x1 Header		Header, 100mil, 3x1, Gold, TH	Samtec	TSW-103-07-G-S	TSW-103-07-G-S
R1	1	0402	47k	RES, 47 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW040247K0JNED	0402
R2, R3, R4	3	0402	4.7k	RES, 4.7 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04024K70JNED	0402
R5, R7, R9, R11, R13, R15	6	0402	470	RES, 470, 5%, 0.063 W, 0402	Vishay-Dale	CRCW0402470RJNED	0402
R6, R8, R10, R12, R14, R16	6	0402	0	RES, 0, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04020000Z0ED	0402
R17, R18, R19, R20, R21, R22, R23, R24	8	0402	510	RES, 510, 5%, 0.063 W, 0402	Vishay-Dale	CRCW0402510RJNED	0402
TP1, TP2	2	PCB Pin(2505-2)		PCB Pin, Swage Mount, TH	Mill-Max	2505-2-00-44-00-00-07-0	Mill-Max_2505-2
U1	1	RHB (32VQFN)		MSP430 Captivate Microcontroller	Texas Instruments	MSP430FR2633RHB	RHB0032E

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