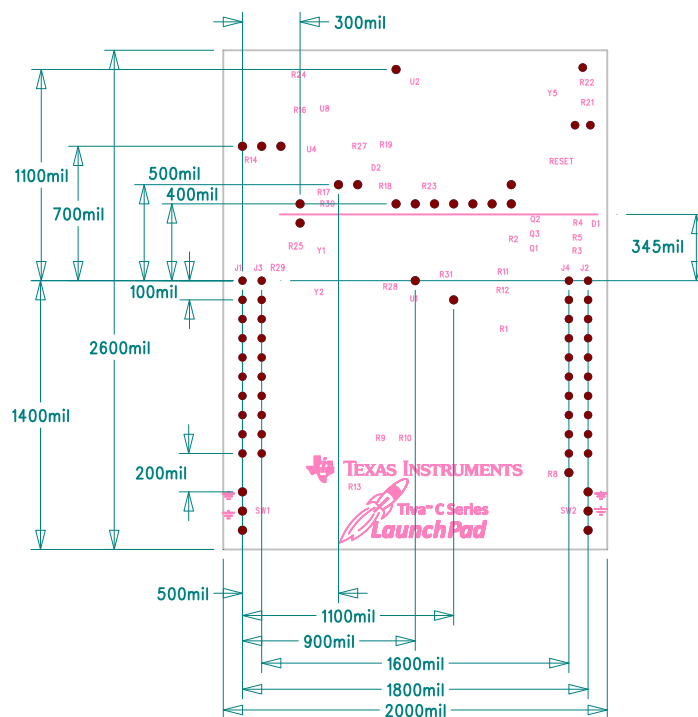


**Figure 4-2. Tiva C Series LaunchPad Dimensions**



**NOTE:** Units are in mils (one thousandth of an inch): 1 mil = 0.001 inch (0.0254 mm).

### 4.3 Bill of Materials (BOM)

Table 4-1 shows the bill of materials for the EK-TM4C123GXL evaluation board.

**Table 4-1. EK-TM4C123GXL Bill of Materials**

Item	Ref Des	Qty	Description	Manufacturer	Manufacturer Part No
1	C1-2, C7, C12, C14	5	Capacitor, 0402, X5R, 10 V, Low ESR	Johanson Dielectrics Inc	100R07X105KV4T
2	C25-26, C31-32	4	Capacitor, 10 pF, 50 V, 5%, NPO/COG, 0402	Murata	GRM1555C1H100JZ01D
3	C28-29	2	Capacitor, 24 pF, 50 V, 5%, NPO/COG, 0402	TDK	C1005C0G1H240J
4	C3, C5, C8, C15, C18-19, C21	7	Capacitor, 0.01 $\mu$ F 25 V, 10% 0402 X7R	Taiyo Yuden	TMK105B7103KV-F
5	C4, C6, C10-11, C17, C20, C23-24	8	Capacitor, 0.1 $\mu$ F 16 V, 10% 0402 X7R	Taiyo Yuden	EMK105B7104KV-F
6	C9, C22	2	Capacitor, 2.2 $\mu$ F, 16 V, 10%, 0603, X5R	Murata	GRM188R61C225KE15D
7	D1	1	LED, Tri-Color RGB, 0404 SMD Common Anode	Everlight	18-038/RSGHBHC1-S02/2T
8	D4	1	LED, Green 565 nm, Clear 0805 SMD	Lite-On	LTST-C171GKT
9	H24	1	Header, 1x2, 0.100, T-Hole, Vertical Unshrouded, 0.220 Mate	3M FCI	961102-6404-AR 68001-102HLF
10	H25	1	Jumper, 0.100, Gold, Black, Closed	Sullins	SPC02SYAN
11	J1, J3	2	Header, 2x10, T-Hole Vertical unshrouded stacking	Samtec	SSW-110-23-S-D

**Table 4-1. EK-TM4C123GXL Bill of Materials (continued)**

Item	Ref Des	Qty	Description	Manufacturer	Manufacturer Part No
12	J11	1	USB Connector, Micro B Recept RA SMT BTTM MNT	Hirose	ZX62-B-5PA
13	J2, J4	2	Header, 1x2, 0.100, SMT, Horizontal Unshrouded, 0.230 Mate	Samtec	TSM-110-01-S-DH-A-P-TR
				4UCON	10995
				Major League Electronics	TSHSM-110-D-02-T-H-AP- TR-P-LF
14	J9	1	USB Connector, Micro A/B Receptacle SMD	Hirose	ZX62-AB-5PA
15	Q1-3	3	NPN SC70 pre-biased	Diodes Inc	DTC114EET1G
16	R1-2, R9-16, R20, R26	12	Resistor, 0 $\Omega$ 1/10W 0603 SMD	Panasonic	ERJ-3GEY0R00V
17	R18-19, R21-23, R28	6	Resistor, 10 k $\Omega$ , 1/10W, 5%, 0402 Thick Film	Yageo	RC0402FR-0710KL
18	R3-5, R8, R27	5	Resistor, 330 $\Omega$ , 1/10W, 5%, 0402	Yageo	RC0402FR-07330RL
19	R31	1	Resistor, 1 M $\Omega$ 1/10W, 5%, 0402	Rohm	MCR01MRTF1004
20	RESET SW1, SW2	3	Switch, Tact 6 mm SMT, 160gf	Omron	B3S-1000
21	SW3	1	Switch, DPDT, SMT 300 mA $\times$ 2 at 6 V	C K Components	JS202011SCQN
22	U1, U2	2	Tiva C Series MCU TM4C123GH6PM	Texas Instruments	TM4C123GH6PMI
23	U8	1	Regulator, 3.3 V, 400 mA, LDO	Texas Instruments	TPS73633DRBT
24	Y1	1	Crystal, 32.768 kHz Radial Can	Abracon	AB26TRB-32.768KHZ- T
25	Y2, Y5	2	Crystal, 16.00 MHz 5.0x3.2mm SMT	NDK	NX5032GA-16.000000 MHz
				Abracon	ABM3-16.000 MHz-B2- T
PCB Do Not Populate List (Shown for information only)					
26	C31, C34	2	Capacitor, 0.1 $\mu$ F 16 V, 10% 0402 X7R	Taiyo Yuden	EMK105B7104KV-F
27	D2	1	Diode, Dual Schottky, SC70, BAS70 Common Cathode	Diodes Inc	BAS70W-05-7-F
28	R17	1	Resistor, 10 k $\Omega$ 1/10W 5%, 0402 Thick Film	Yageo	RC0402FR-0710KL
29	R24	1	Resistor, 330 $\Omega$ , 1/10W, 5%, 0402	Yageo	RC0402FR-07330RL
30	R25, R29-30	3	Resistor, 0 $\Omega$ , 1/10W 0603	Panasonic	ERJ-3GEY0R00V
31	U4	1	IC, Single Voltage Supervisor, 5V, DBV	Texas Instruments	TLV803MDBZR