

CST8227 Electronic Component Kit

Part Description	Qty/ kit	Digikey Part No	Man'f part No	Identification	Description
1 resistors	10	220QBK-ND	CFR-25JR-220R	220 ohm – red, red, brown, gold	General purpose resistor
2 resistors	10	330QBK-ND	CFR-25JR-330R	330 ohm – orange, orange, brown, gold	General purpose resistor
3 resistors	10	1.0KQBK-ND	CFR-25JR-1K0	1Kohm – brown, black, red, gold	General purpose resistor
4 resistors	10	10KQBK-ND	CFR-25JB-10K	10Kohm – brown, black, orange, gold	General purpose resistor
5 resistors	4	10MQBK-ND	CFR-25JR-10M	10Mohm – brown, black, blue, gold	For use with touch sensor
6 LED, Red	2	754-1276-ND	WP7113SRD/E	Slightly darker red lens than std LED	400mcd @ 20mA/1.85V
7 LED, Red	10	754-1264-ND	WP7113ID		45mcd @ 10mA/2.0V
8 LED, Green	10	754-1263-ND	WP7113GD		20mcd @ 10mA/2.2V
9 LED, Yellow	10	754-1284-ND	WP7113YD		20mcd @ 10mA/2.1V
10 Bi-colour LED	2	754-1278-ND	WP7113SRSGW WP154A4SUREQBF	Cloudy/milky white lens colour	200/60mcd @ 20mA
11 Tricolour LED	1	754-1492-ND	ZGW	Has 4 leads, unlike all other LEDs	20mA @ 1.9V/3.3V
12 7-segment LED	2	67-1451-ND	LDS-A504RI	Common anode	5mcd @ 10mA/2V
13 Speaker	1	458-1130-ND	PSR-40F08S02-JQ		8 ohm, 0.25 Watt
14 Breadboard	1	438-1045-ND	TW-E40-1020		830 tie points
15 Switch, small	3	450-1650-ND	FSM4JH		6 mm
16 Switch, large	2	450-1157-ND	FSM101		12 mm
17 light sensor	1	PDV-P9203-ND	PDV-P9203	Orange zig-zag on face	5K- 20K ohm
18 potentiometer	1	3352H-103LF-ND	3352H-1-103LF	3 leads with black thumb wheel	10K ohm
19 IR receiver	1	751-1385-5-ND	TSOP34338	Solid black with round bump on front	38KHz, 2.5-5.5V
20 IR LED	1	LNA2903L-ND	LNA2903L	Clear lens, shorter leads of LEDs	20mA @ 1.5V
21 Tilt switch	1	EG4917CT-ND	TM1000Q	3 leads; small black rectangle	Max 20mA/24V
22 Magnetic sensor	1	ADI-ND	ATS137-PL-B-A	Hall-effect; ESD sensitive; 3 leads	
23 Piezo buzzer	1	445-2526-1-ND	PS1420P02CT	Round with hole in top	5V 2KHz
24 Shift reg	2	296-1600-5-ND	SN74HC595N	16 pin chip; ESD sensitive !!!	5V only
25 Opto relay	1	255-1519-5-ND	APT1212	DANGER when controlling 120VAC	20ma/1.2V; 100mA
26 Temp sensor	1	BC2521-ND	NTCLE100E3152JB0	Bulb at tip: red, green, brown, gold	1.5Kohm
27 capacitor	2	495-2842-ND	B32559C1474K000	Blue; two leads	0.47uF
28 capacitor	2	478-3141-1-ND	SA102A101JAR	Axial leads	100pf; touch sensor
29 Jumper wires	1	438-1049-ND	TW-E012-000	Make your own wires if you need extras!	

