

Main [ES35 - Touch Controller Component Kit]

Item	Description	Qty	Designator	Package
	CAPACITOR			
1	47pF 5% Ceramic	1	C1	RAD-0.2N
2	10nF 5% Ceramic	2	C3, C4	RAD-0.2N
3	100nF Ceramic	2	C903, C905	RAD-0.2N
4	2.2uF 35V Tantalum	1	C904	RB-D5.0-P5.0
5	10uF 35V Electrolytic	2	C2, C1001	RB-D5.0-P2.0
	CONNECTOR			
6	1x10 Pin Extended Receptacle	1	J1	-
7	1x4 Pin RA Header	18	J101, J102, J201, J202, J301, J302, J401, J402, J501, J502, J601, J602, J701, J702, J801, J802, J901, J902	-
8	1x6 Pin Receptacle	4	BUF1, BUF2, BUF3, BUF4	2212S
9	IDC10 Box Header	1	J1001	2.54MM
10	18-pin IC Socket 0.3inch	1	U902	DIP-18
11	14-pin IC Socket 0.3inch	4	U1, U2, U102, U702	DIP-14
	DIODE			
12	1N4148	17	D103, D104, D203, D204, D303, D304, D403, D404, D503, D504, D603, D604, D703, D704, D803, D804, D902	DIODE-0.3
13	1N4004 200V 1A	1	D901	DIODE-0.4
	HARDWARE			
14	M3 x 6mm Bolt PH	2	TOUCH1, TOUCH2	-
15	M3 x 12mm Nylon Spacer Threaded	4	BUF1, BUF2, BUF3, BUF4	-
16	M3 Nut	4	BUF, BUF1, BUF2, BUF3	-
17	M3 x 15mm Nylon Spacer Threaded	2	TOUCH1, TOUCH2	-
18	M3 x 20mm Bolt PH	4	BUF1, BUF2, BUF3, BUF4	-
	LINEAR			
19	7805 +5V 1A Fixed Voltage Regulator	1	U901	TO-220
20	ULN2803 - Darlington Driver Array - 5V Interface	1	U902	DIP-18

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	INDUCTOR			
21	Ferrite Bead - 0.45uH 7A	1	L1001	AXIAL-0.3
	LOGIC			
22	74HC14 - Hex Schmitt Trigger	2	U102, U702	DIP-14
23	CD4069UB - Hex Inverter Unbuffered	2	U1, U2	DIP-14
	OPTO-ELECTRONIC			
24	3mm HE-Yellow LED	9	D902, D903, D904, D905, D906, D907, D908, D909, D910	-
	RESISTOR			
25	330R 1% 0.5W Metal Film	8	R109, R209, R309, R409, R509, R609, R709, R809	AXIAL-0.4
26	1K0 1% 0.5W Metal Film	17	R108, R208, R308, R408, R508, R608, R708, R808, R903, R913, R914, R915, R916, R917, R918, R919, R920	AXIAL-0.4
27	10K 1% 0.5W Metal Film	11	R2, R20, R904, R905, R906, R907, R908, R909, R910, R911, R912	AXIAL-0.4
28	15K 1% 0.5W Metal Film	8	R3, R5, R7, R9, R11, R13, R15, R17	AXIAL-0.4
29	20K 1% 0.5W Metal Film	1	R19	AXIAL-0.4
30	22K 1% 0.5W Metal Film	8	R106, R206, R306, R406, R506, R606, R706, R806	AXIAL-0.4
31	47K 1% 0.5W Metal Film	8	R4, R6, R8, R10, R12, R14, R16, R18	AXIAL-0.4
32	100K 1% 0.5W Metal Film	1	R1	AXIAL-0.4
33	270K 1% 0.5W Metal Film	9	R107, R207, R307, R407, R507, R607, R707, R807, R902	AXIAL-0.4
34	470K 1% 0.5W Metal Film	1	R901	AXIAL-0.4
	TRANSISTOR			
35	2N3904 NPN Transistor	8	Q101, Q201, Q301, Q401, Q501, Q601, Q701, Q801	TO-92
36	2N3906 PNP Transistor	1	Q901	TO-92
37	BC547B NPN Transistor	1	Q1	TO-92
	TRIMPOT			
38	10K 25TV Cermet	1	P1	T93YA

