



Bill of Materials for the TOUCHLRACOMBOGEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
IC1	1	Capacitance Digital Converter	-	-	VCT28	ON Semiconductor	LC717A10ARGP	No	Yes
IC2	1	Haptics Driver	-	-	WLCSP8	ON Semiconductor	LC898301AXA	No	Yes
IC3	1	8-bit Microcontroller	-	-	SQFP48	ON Semiconductor	LC87F1M16A	No	Yes
C1, C11, C12,	4	Ceramic multilayer Capacitor	0.1µF, 50V	±10%	1608(0603inch)	Murata	GRM188R71H104KA93D	Yes	Yes
C2	1	Ceramic multilayer Capacitor	10µF, 25V	±10%	3216(1206inch)	Murata	GRM31CB31E106KA	Yes	Yes
C3, C4	2	Ceramic multilayer Capacitor	2pF	±0.25pF	1608(0603inch)	Murata	GRM1884C1H2R0C	Yes	Yes
C5	1	Ceramic multilayer Capacitor	470pF, 50V	±5%	1608(0603inch)	Murata	GRM1882C1H471JA01D	Yes	Yes
C6	1	Ceramic multilayer Capacitor	1µF, 25V	±10%	1608(0603inch)	Murata	GRM188R71E105KA12D	Yes	Yes
C7, C8	2	Ceramic multilayer Capacitor	5pF	±0.25pF	1608(0603inch)	Murata	GRM1882C1H5R0C	Yes	Yes
C9, C10	2	Ceramic multilayer Capacitor	2.2µF, 10V	±10%	1608(0603inch)	Murata	GRM188R71A225KE15D	Yes	Yes
C14,C15	2	-	No use	-	-	-	-	-	-
R1, R2, R4	3	Thick film Resistor	3.3kΩ, 1/10W	±5%	1608(0603inch)	ROHM	MCR03EZPJ332	Yes	Yes
R3, R6	2	Thick film Resistor	10kΩ, 1/10W	±5%	1608(0603inch)	Vishay Dale	CRCW060310K0JNEA	Yes	Yes
R5, R22, R23	3	Thick film Resistor	1kΩ, 1/10W	±5%	1608(0603inch)	ROHM	MCR03EZPJ102	Yes	Yes
R7-R14	8	Thick film Resistor	510Ω, 1/10W	±5%	1608(0603inch)	ROHM	MCR03EZPJ511	Yes	Yes
R15, R16	2	Thick film Resistor	33Ω, 1/10W	±5%	1608(0603inch)	ROHM	MCR03ERTJ330	Yes	Yes
R17	1	Thick film Resistor	1.5kΩ, 1/10W	±5%	1608(0603inch)	ROHM	MCR03EZPJ152	Yes	Yes
R18	1	Thick film Resistor	100Ω, 1/10W	±5%	1608(0603inch)	ROHM	MCR03ERTJ101	Yes	Yes
R19	1	Thick film Resistor	100kΩ, 1/10W	±5%	1608(0603inch)	ROHM	MCR03ERTJ104	Yes	Yes
R20	1	Thick film Resistor	300kΩ, 1/10W	±5%	1608(0603inch)	ROHM	MCR03EZPJ304	Yes	Yes
R21	1	Thick film Resistor	470Ω, 1/10W	±5%	1608(0603inch)	ROHM	MCR03ERTJ471	Yes	Yes
R24, R25	2	-	No use	-	-	-	-	-	-
R26	1	-	No use	-	-	-	-	-	-
LED0-7	8	Red Chip LED	30mA, 81mW	-	1608(0603inch)	Stanley Electric	UR1111C	Yes	Yes
SW1-2	2	TACT switch	-	-	4.6 x 3.2	ALPS	SKRSPACE010	Yes	Yes
USB-CN1	1	USB-Connector mini-B	-	-	54819-0519	Molex	54819-0519	Yes	Yes
Haptic	1	Haptic actuator	-	-	-	Bluecom	-	Yes	Yes
ZD1	1	Zener Diode	-	-	SOD-523	ON Semiconductor	MM5Z6V2ST1G	No	Yes
D1	1	Diode	-	-	SOD-323	ON Semiconductor	MMDL6050T1G	No	Yes
CF1	1	Ceramic Resonator	-	-	CSTCE G	Murata	CSTCE12M0GH5L	No	Yes
CN1	1	Connector	-	-	-	TE Connectivity	RS 668-9577 7PINS	Yes	Yes
CN2	1	Connector	-	-	-	TE Connectivity	RS 668-9577 3PINS	Yes	Yes
Panel	1	Acrylic board	-	-	125 x 59	-	-	Yes	Yes
P1, P2	2	Terminal Pin	-	-	-	Mac8	ST-1-3	Yes	Yes
Buzzer	1	Buzzer	-	-	-	Murata	PKLCS1212E4001	Yes	Yes
NMOS1	1	MOSFET	-	-	CP	ON Semiconductor	3LN01C	No	Yes