



Bill of Materials for the LC717A00ARGEVK Evaluation Kit

LC717A00AR01GEVB

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	Capacitance Digital Converter LSI	-	-	VCT28	ON Semiconductor	LC717A00AR	No	Yes
LEDR0	1	Red LED, Error lamp	180mcd	-	2012	Kingbright	KP-2012SURCK	Yes	Yes
LEDR1 to 8	8	Red LED, Switch lamp	180mcd	-	2012	Kingbright	KP-2012SURCK	Yes	Yes
LEDG1 to 8	8	Green LED, Switch lamp	450mcd	-	2012	Kingbright	KP-2012ZGC	Yes	Yes
C1	1	VDD bypass capacitor	10uF/16V	±10%	2012	Murata Manufacturing	GRM21BB31C106KE15L	Yes	Yes
R1 to 8	8	Red LED resistance, Switch lamp	1kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ102	Yes	Yes
R16 to 23	8	Green LED resistance, Switch lamp	1kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ102	Yes	Yes
R9, R12, R13	3	Pull-up resistance	3.3kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ332	Yes	Yes
R0	1	Red LED resistance, Error lamp	3.3kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ332	Yes	Yes
R15	0	-	-	-	-	-	-	-	-
R10, R11, R14, JP1	0	-	-	-	-	-	-	-	-
CN2	1	I2C connector	6pin	-	2.54mm	Ho Chien	2545B-1x6G	Yes	Yes
JP2	1	Power supply supply	3pin	-	2.54mm	Ho Chien	2544-1x3G-11.8	Yes	Yes
SW	1	Reset switch	-	-	6x6	ALPS	SKHHAMA010	Yes	Yes
CN1	1	Power supply connector	Center Plus	-	(SMT)	SMK	LGP2631-0100F/-0101F	Yes	Yes
-	1	PCB	155mmx115mm, t=1.6mm	-	-	Various	Various	Yes	Yes
-	1	shorting plug	2Pin(2.54mm pitch)	-	-	Ho Chien	2546-01B	Yes	Yes
-	1	Acrylic board	155mmx80mm, t=3.0mm	-	-	Various	Various	Yes	Yes
-	1	Aluminum board	155mmx115mm, t=1.0mm	-	-	Various	Various	Yes	Yes
-	4	spacer(between acrylic board and PCB)	M3x1.5mm(hollow tube)	-	-	HIROSUGI-KEIKI	C-301.5	Yes	Yes
-	6	spacer(between PCB and aluminum board)	M3x5mm(hollow tube)	-	-	HIROSUGI-KEIKI	C-305	Yes	Yes
-	2	Bolt	M3x14mm	-	-	Various	Various	Yes	Yes
-	4	Bolt	M3x18mm	-	-	Various	Various	Yes	Yes
-	4	Washer(in rubber foot)	M3xφ6mm	-	-	Various	Various	Yes	Yes
-	6	Washer(surface)	M3xφ7mm	-	-	Various	Various	Yes	Yes
-	2	Washer(bottom)	M3xφ7mm	-	-	Various	Various	Yes	Yes
-	2	Spring washer	M3	-	-	Various	Various	Yes	Yes
-	6	Nut	M3	-	-	Various	Various	Yes	Yes
-	4	Rubber foot	φ15mmx7.5mm	-	-	SATO PARTS	BU-692-A	Yes	Yes
-	0.5	double-face tape for short circuit protection	-	-	-	Various	Various	Yes	Yes

LC717A00AR02GEVB

U1	1	Capacitance Digital Converter LSI	-	-	VCT28	ON Semiconductor	LC717A00AR	No	Yes
LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8	8	Red LED, Switch lamp	180mcd	-	2012	Kingbright	KP-2012SURCK	Yes	Yes
LED9	1	Red LED, Error lamp	180mcd	-	2012	Kingbright	KP-2012SURCK	Yes	Yes
C1	1	VDD bypass capacitor	10uF/16V	±10%	2012	Murata Manufacturing	GRM21BB31C106KE15L	Yes	Yes
R1, R2, R3, R4, R5, R6, R7, R8	8	Red LED resistance, Switch lamp	3.3kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ332	Yes	Yes
R9	1	Red LED resistance, Error lamp	3.3kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ332	Yes	Yes

R14, R15, R17	3	Pull-up resistance	3.3kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ332	Yes	Yes
R10, R12	0	-	-	-	-	-	-	-	-
R11, R13, R16	0	-	-	-	-	-	-	-	-
CN1	1	I2C connector	6pin	-	2.54mm	Ho Chien	2545B-1x6G	Yes	Yes
SW	1	Reset switch	-	-	6x6	ALPS	SKHHAMA010	Yes	Yes
-	1	PCB	127.5mmx28.5mm, t=1.6mm	-	-	Various	Various	Yes	Yes
-	1	Acrylic board-1(surface)	90mmx15mm, t=1.0mm	-	-	Various	Various	Yes	Yes
-	1	Acrylic board-2(bottom)	103mmx28mm, t=1.0mm	-	-	Various	Various	Yes	Yes
-	1	double-face tape(for Acrylic board-1)	89mmx14mm, clear	-	-	Various	Various	Yes	Yes
-	1	double-face tape(for Acrylic board-2)	102mmx27mm, clear	-	-	Various	Various	Yes	Yes

LC717A00AR03GEVB

U1	1	Capacitance Digital Converter LSI	-	-	VCT28	ON Semiconductor	LC717A00AR	No	Yes
LED1, LED2, LED3, LED4, LED5, LED6, LED7, LED8	8	Red LED, Switch lamp	180mcd	-	2012	Kingbright	KP-2012SURCK	Yes	Yes
LED9	1	Red LED, Error lamp	180mcd	-	2012	Kingbright	KP-2012SURCK	Yes	Yes
C1	1	VDD bypass capacitor	10uF/16V	±10%	2012	Murata Manufacturing	GRM21BB31C106KE15L	Yes	Yes
R1, R2, R3, R4, R5, R6, R7, R8	8	Red LED resistance, Switch lamp	3.3kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ332	Yes	Yes
R9	1	Red LED resistance, Error lamp	3.3kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ332	Yes	Yes
R11, R13, R14	3	Pull-up resistance	3.3kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ332	Yes	Yes
R10, R12	0	-	-	-	-	-	-	-	-
R15	0	-	-	-	-	-	-	-	-
LM1	1	noise suppression parts	-	-	1608	Murata Manufacturing	BLM18AG601SN1D	Yes	Yes
CN1	1	USB-A connector	right angle	-	Pin type	TECHNICAL ELECTRON	UAR10-4W5J00	Yes	Yes
CN2	0	I2C connector	6pin	-	2.54mm	Ho Chien	2545B-1x6G	Yes	Yes
-	1	PCB	68.9mmx28.5mm, t=1.6mm	-	-	Various	Various	Yes	Yes
-	1	Acrylic board	48mmx28mm, t=1.0mm	-	-	Various	Various	Yes	Yes
-	1	double-face tape(for Acrylic board)	47mmx27mm, clear	-	-	Various	Various	Yes	Yes

LC717A00ARGPGEVB

U1	1	Capacitance Digital Converter LSI	-	-	VCT28	ON Semiconductor	LC717A00AR	No	Yes
R1	1	Green LED resistance, Power lamp	1.5kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ152	Yes	Yes
R2, R3, R4, R5	4	Pull-up resistance	2.2kΩ/0.1W	±5%	1608	ROHM	MCR03EZPJ222	Yes	Yes
C1	1	VDD bypass capacitor	1uF/25V	±10%	1608	Murata Manufacturing	GRM188B31E105KA75D	Yes	Yes
C2	1	VDD bypass capacitor	0.1uF/25V	±10%	1608	Murata Manufacturing	GRM188B11E104KA01D	Yes	Yes
C3	0	-	-	-	-	-	-	-	-
LED1	1	Green LED, Power lamp	min 18mcd	-	1608	EVERLIGHT	19-213/G6C-BM1N2B/3T(ELJ)	Yes	Yes
SW1 ("SW")	1	Reset switch	-	-	(SMT)	ALPS	SKQMBAE010	Yes	Yes
-	2	pin 1x14	14pin	-	2.54mm	PRECI-DIP	350-10-114-00-006101	Yes	Yes
-	1	PCB	17.78mmx35.56mm, t=1.6mm	-	-	Various	Various	Yes	Yes