

LCU 6333 PCBA Bill of Materials

Qty.	Symbol	Name	Value	Package	Manufacturer	MPN
1	-	PCB 1040	-	-	-	-
1	IC1	IC, RFID, CL RC632	-	SO32	NXP	CL RC632 01T
1	IC2	IC, MCU, ATXmega256A3	-	QFN64 / Atmel 64M2	Atmel	ATXmega256A3-MH
1	IC3	IC, EEPROM, 512kbits, I2C	-	TSSOP8	Microchip Microchip Atmel ST	24AA512T-I/ST 24FC512T-I/ST AT24C512B-TH-T M24512-RDW6T
1	IC4	IC, DC/DC converter	-	SC70	AnalogicTech	AAT3119JS-5.0
1	IC5	IC, Voltage regulator, 3V0	-	SC-82AB	On Torex New JRC	NCP583SQ30T1G XC6215B302NR NJU7747F4-03
2	T1, 2	Transistor, PNP, BC807W	-	SOT323	NXP Infineon Diodes Semtech Diotec	BC807-25W BC807-25W BC807-25W BC807-25W BC807-25W
5	T3, 4, 5, 6, 7	Transistor, MOSFET, Dual N-ch	-	SOT363	NXP NXP Diodes Diodes Vishay Siliconix	PMGD280UN PMGD400UN DMN5L06DWK DMN5L06DW Si1912EDH
1	T8	Transistor, 2xPNP "digital"	-	SOT363	Diodes ROHM NXP On	DDA123JU UMB10NTN PUMB10 MUN5135DW1TxG
1	T9	Transistor, NPN+PNP, "digital"	-	SOT363	Diodes On LRC NXP	DCX123JU MUN5335DW1TxG LMUN5335DW1T1G PUMD10
1	D1	Diode, Schottky signal	-	SOD123	Diodes ST Vishay Diotec MCC Semtech	BAT46W BAT46ZFILM BAT46W BAT46W BAT46W BAT46W

3	D2, 3, 4	Diode, 1N4148, SOD523	-	SOD523	Fairchild Diodes Semtech Consumi MCC	1N4148WT 1N4148WT 1N4148WT 1N4148WT 1N4148X
3	D5, 8, 9	Diode, Zener, 7V5	-	SOD323	Vishay NXP Pan-Jit Diodes KEC On Semi. Toshiba	BZX384B7V5-V BZX384B7V5 BZT52-B7V5S BZT52C7V5S-7-F KDZ7.5V-Y MM3Z7V5ST1G 02DZ7.5-Y
1	D6	Diode, Schottky rectifier	-	SOD123	ST Fairchild IR On Semi. TSC	STPS0520Z MBR0520L MBR0520PBF MBR0520LT1G B0520LW
1	D7	Diode, TVS	-	SOT23	Diodes NXP	DESD5V2S2UT PESD5V2S2UT
1	Y1	Crystal, 13.56MHz	-	6.0x3.5mm	Raltron Rakon Mercury	H10S-13.560-18-3030-TR 13.5600MHz 3SMX-B 30/-/10/18 MF-13.560-H70904-001
1	Y2	Crystal, 32768Hz, 12.5pF	-	7.0x1.5mm	Abracon Citizen ECS	ABS13-32.768KHZ-T CM130-32.768KDZF-UT ESC-.327-12.5-38
2	L1, 2	Inductor	-	Metric 3225 (EIA 1210)	TDK XFMRs Superworld KOA	NLV32T-1R0J-PF XFWI322522-1R0J WI322522-1R0JF LFC32TTE1R0J
6	FB1-6	Ferrite bead	-	Metric 1608 (EIA 0603)	TDK Tyco Sigma Kemet NIC Superworld Taiyo Yuden	MMZ1608R601A BMB1J0600LN2 BK-1608HS601TK NCB0603R601TR035F Z2K601-RD-10 BK1608HS601
1	RV1	Fuse, Resettable PTC	-	Metric 3225 (EIA 1210)	Bourns Tyco Raychem	MF-USMF010 MICROSMD010F-2
1	X1	Connector	-	-	Samtec	IPT1-105-01-S-D (-K)
1	Z1	Cable Assembly	-	-	-	-

1	Z2	LED Assembly	-	-	-	-
1	C1	Capacitor, ceramic, C0G	47p 50V	Metric 1608 (EIA 0603)	-	-
1	C2	DO NOT MOUNT	-	Metric 1608 (EIA 0603)	-	-
1	C3	Capacitor, ceramic, C0G	470p 50V	Metric 1608 (EIA 0603)	-	-
1	C4	Capacitor, ceramic, X7R	10n 10V	Metric 1608 (EIA 0603)	-	-
1	C5	Capacitor, ceramic, X5R	1u 6V3	Metric 1608 (EIA 0603)	-	-
1	C6	Capacitor, ceramic, C0G	22p 50V	Metric 1608 (EIA 0603)	-	-
1	C7	Capacitor, ceramic, C0G	330p 50V	Metric 1608 (EIA 0603)	-	-
1	C8	Capacitor, ceramic, C0G	47p 50V	Metric 1608 (EIA 0603)	-	-
1	C9	Capacitor, ceramic, C0G	47p 50V	Metric 1608 (EIA 0603)	-	-
1	C10	Capacitor, ceramic, C0G	15p 50V	Metric 1608 (EIA 0603)	-	-
1	C11	Capacitor, ceramic, C0G	68p 50V	Metric 1608 (EIA 0603)	-	-
1	C12	Capacitor, ceramic, C0G	68p 50V	Metric 1608 (EIA 0603)	-	-
1	C13	Capacitor, ceramic, C0G	15p 50V	Metric 1608 (EIA 0603)	-	-
1	C14	DO NOT MOUNT	-	Metric 1608 (EIA 0603)	-	-
1	C15	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C16	Capacitor, ceramic, C0G	15p 50V	Metric 1608 (EIA 0603)	-	-
1	C17	Capacitor, ceramic, C0G	15p 50V	Metric 1608 (EIA 0603)	-	-
1	C18	Capacitor, ceramic, C0G	18p 50V	Metric 1608 (EIA 0603)	-	-
1	C19	Capacitor, ceramic, C0G	18p 50V	Metric 1608 (EIA 0603)	-	-
1	C20	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C21	Capacitor, ceramic, X7R	10n 10V	Metric 1608 (EIA 0603)	-	-
1	C22	Capacitor, ceramic, C0G	330p 50V	Metric 1608 (EIA 0603)	-	-
1	C23	Capacitor, ceramic, C0G	330p 50V	Metric 1608 (EIA 0603)	-	-
1	C24	Capacitor, ceramic, X7R	10n 10V	Metric 1608 (EIA 0603)	-	-
1	C25	Capacitor, ceramic, X5R	22u 6V3	Metric 3216 (EIA 1206)	-	-
1	C26	Capacitor, ceramic, X5R	22u 6V3	Metric 3216 (EIA 1206)	-	-
1	C27	Capacitor, ceramic, X7R	10n 10V	Metric 1608 (EIA 0603)	-	-
1	C28	Capacitor, ceramic, C0G	15p 50V	Metric 1608 (EIA 0603)	-	-
1	C29	Capacitor, ceramic, C0G	15p 50V	Metric 1608 (EIA 0603)	-	-
1	C30	Capacitor, ceramic, X7R	10n 10V	Metric 1608 (EIA 0603)	-	-
1	C31	Capacitor, ceramic, X7R	10n 10V	Metric 1608 (EIA 0603)	-	-
1	C32	Capacitor, ceramic, C0G	15p 50V	Metric 1608 (EIA 0603)	-	-
1	C33	Capacitor, ceramic, C0G	15p 50V	Metric 1608 (EIA 0603)	-	-
1	C34	Capacitor, ceramic, C0G	15p 50V	Metric 1608 (EIA 0603)	-	-
1	C35	Capacitor, ceramic, X7R	1n 25V	Metric 1608 (EIA 0603)	-	-
1	C36	Capacitor, ceramic, X5R	22u 6V3	Metric 3216 (EIA 1206)	-	-
1	C37	Capacitor, ceramic, X7R	1n 25V	Metric 1608 (EIA 0603)	-	-
1	C38	Capacitor, ceramic, X7R	1n 25V	Metric 1608 (EIA 0603)	-	-

1	C39	Capacitor, ceramic, X5R	10u 6V3	Metric 1608 (EIA 0603)	-	-
1	C40	Capacitor, ceramic, X5R	10u 6V3	Metric 1608 (EIA 0603)	-	-
1	C41	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C42	Capacitor, ceramic, X5R	10u 6V3	Metric 1608 (EIA 0603)	-	-
1	C43	Capacitor, ceramic, X5R	1u 6V3	Metric 1608 (EIA 0603)	-	-
1	C44	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C45	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C46	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C47	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C48	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C49	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C50	Capacitor, ceramic, X5R	10u 6V3	Metric 1608 (EIA 0603)	-	-
1	C51	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)		
1	C52	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C53	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C54	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C55	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	C56	Capacitor, ceramic, X5R	10u 6V3	Metric 1608 (EIA 0603)	-	-
1	C57	Capacitor, ceramic, X7R	100n 16V	Metric 1608 (EIA 0603)	-	-
1	R1	Resistor	2R7	Metric 1608 (EIA 0603)	-	-
1	R2	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R3	Resistor	1k	Metric 1608 (EIA 0603)	-	-
1	R4	Resistor	180R	Metric 1608 (EIA 0603)	-	-
1	R5	Resistor	180R	Metric 1608 (EIA 0603)	-	-
1	R6	Resistor	47k	Metric 1608 (EIA 0603)	-	-
1	R7	Resistor	270R	Metric 1608 (EIA 0603)	-	-
1	R8	Resistor	0R	Metric 1608 (EIA 0603)	-	-
1	R9	Resistor	3k3	Metric 1608 (EIA 0603)	-	-
1	R10	Resistor	820R	Metric 1608 (EIA 0603)	-	-
1	R11	Resistor	0R	Metric 1608 (EIA 0603)	-	-
1	R12	DO NOT MOUNT	-	Metric 1608 (EIA 0603)	-	-
1	R13	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R14	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R15	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R16	Resistor	1M	Metric 1608 (EIA 0603)	-	-
1	R17	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R18	Resistor	100k	Metric 1608 (EIA 0603)	-	-
1	R19	Resistor	100k	Metric 1608 (EIA 0603)	-	-
1	R20	Resistor	3k3	Metric 1608 (EIA 0603)	-	-

1	R21	Resistor	3k3	Metric 1608 (EIA 0603)	-	-
1	R22	Resistor	180R	Metric 1608 (EIA 0603)	-	-
1	R23	Resistor	180R	Metric 1608 (EIA 0603)	-	-
1	R24	Resistor	3k3	Metric 1608 (EIA 0603)	-	-
1	R25	Resistor	3k3	Metric 1608 (EIA 0603)	-	-
1	R26	Resistor	3k3	Metric 1608 (EIA 0603)	-	-
1	R27	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R28	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R29	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R30	Resistor	2k7	Metric 1608 (EIA 0603)	-	-
1	R31	Resistor	2k7	Metric 1608 (EIA 0603)	-	-
1	R32	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R33	Resistor	470k	Metric 1608 (EIA 0603)	-	-
1	R34	Resistor	3k3	Metric 1608 (EIA 0603)	-	-
1	R35	Resistor	1k	Metric 1608 (EIA 0603)	-	-
1	R36	Resistor	120R	Metric 1608 (EIA 0603)	-	-
1	R37	Resistor	120R	Metric 1608 (EIA 0603)	-	-
1	R38	Resistor	10k 1%	Metric 1608 (EIA 0603)	-	-
1	R39	Resistor	2k2 1%	Metric 1608 (EIA 0603)	-	-
1	R40	Resistor	10k	Metric 1608 (EIA 0603)	-	-
1	R41	Resistor	10k	Metric 1608 (EIA 0603)	-	-