



Bill of Materials for the LC87F1MADG1AGEVK Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1,C2,C4	3	Capacitor SMD	0.1uF,10V	±10%	0402(1005)	Murata	GRM155B11A104KA01#	Yes	Yes
C3,C8,C20	3	Capacitor SMD	2.2uF,10V	±20%	0603(1608)	Murata	GRM188B31A225ME33#	Yes	Yes
C6	1	Capacitor SMD	4.7uF,16V	±10%	0805(2012)	Murata	GRM21BB31C475KA87L	Yes	Yes
C7	1	Capacitor SMD	0.01uF,10V	±10%	0402(1005)	Murata	GRM155R61A103KA01#	Yes	Yes
C9,C10	2	Capacitor SMD	5pF,50V	±0.25pF	0402(1005)	Murata	GRM1552P1H5R0CZ01#	Yes	Yes
C11,C12	2	Open	DNP	-	-	-	-	-	-
CF1	1	Ceramic Resonator	12MHz 33pF	±0.07%	CE	Murata	CSTCE12M0GH5L	Yes	Yes
ZD1	1	Zener Diode	6.2V 200mW	-	SOD-523	ON Semiconductor	MM5Z6V2ST1G	No	Yes
D1	1	Diode	-	-	SOD-323-2	ON Semiconductor	MMDL6050T1G	No	Yes
IC1	1	Micro Controller	-	-	SQFP48(7*7)	ON Semiconductor	LC87F1M16AF5ZA0WA-6H	No	Yes
IC2	1	LDO Regulator	3.3V 500mA	-	TSOT23	ON Semiconductor	CAT6219-330TDGT3	No	Yes
LED1	1	LED SMD	RED	-	0603(1608)	STANLEY	UR111C	Yes	Yes
Q1	1	Dual Pch-MOS	-30V -0.2A	-	MCPH6	ON Semiconductor	MCH6601	No	Yes
R6	1	Resistor SMD	100kOhm,0.063W	±5%	0402(1005)	Rohm	MCR01MZPJ104	Yes	Yes
R1	1	Resistor SMD	330kOhm,0.063W	±5%	0402(1005)	Rohm	MCR01MZPJ334	Yes	Yes
R2	1	Resistor SMD	100Ohm,0.063W	±5%	0402(1005)	Rohm	MCR01MZPJ101	Yes	Yes
R4,R5	2	Resistor SMD	33Ohm,0.063W	±5%	0402(1005)	Rohm	MCR01MZPJ330	Yes	Yes
R3,R9,R10	3	Resistor SMD	1.5kOhm,0.063W	±5%	0402(1005)	Rohm	MCR01MZPJ152	Yes	Yes
R8	1	Resistor SMD	10kOhm,0.063W	±5%	0402(1005)	Rohm	MCR01MZPJ103	Yes	Yes
R11,R12	2	Resistor SMD	0Ohm,0.063W	±5%	0402(1005)	Rohm	MCR01MZPJ000	Yes	Yes
R13	1	Open	DNP	-	-	-	-	-	-
RD2	1	Resistor SMD	330Ohm,0.063W	±5%	0402(1005)	Rohm	MCR01MZPJ331	Yes	Yes
R7	1	Resistor SMD	2.2kOhm,0.063W	±5%	0402(1005)	Rohm	MCR01MZPJ222	Yes	Yes
USB CN1	1	CONNECTER	USB-B CONNECTOR(MIN)	-	-	Molex	54819-0519	Yes	Yes
CN 1,2,3	1	Pin Header 5*3	5*3	-	-	HIROSUGI	PSR-430256-05	Yes	Yes
Included parts	1	Pin Header Socket 5*3	5*3	-	-	HIROSUGI	FSS-43085-05	Yes	Yes