



ON Semiconductor

Bill of Material for the NCL35076LED1GEVB

Designator	Quantity	Description	Value	Footprint	Manufacturer	Part Number
U1	1	CCM Buck Controller	NCL35076	SOIC-8	ON Semiconductor	NCL50076
CIN, CLED	2	Electrolytic Capacitor	100V / 68uF	10*16mm	Samyoung	NXA series
LBUCK	1	Inductor	154uH (0.45pi, 54turns)	EE16H 8pin Bobbin	SAMHO	
DBUCK	1	Schottky Rectifier	100V / 5A	SMA-FL	ON Semiconductor	NTSAF5100T3G
QBUCK	1	N-Channel MOSFET	100V 15.6A, 63mohm	D-PAK	ON Semiconductor	FQD19N10
RFF1	2	Resistor Axial (±5%)	22Mohm	Axial	Stackpole Electronics Inc	PCF14JT22M0
RCS1, RCS2, RCS3	3	Resistor SMD (±1%)	0.36ohm	3216F	Yageo	RL1206FR-070R36L
RLED	1	Resistor SMD (±1%)	47kohm	3216	Yageo	
RZCD1	1	Resistor SMD (±1%)	680kohm	2012	Yageo	
RZCD2	1	Resistor SMD (±1%)	1.5kohm	2012	Yageo	
RFB	0	N.C				
RDIM	1	Resistor SMD (±1%)	0ohm	2012	Yageo	
RDRV	1	Resistor SMD (±1%)	10ohm	2012	Yageo	
RGS	1	Resistor SMD (±1%)	100kohm	2012	Yageo	
RPROVE	1	Resistor SMD (±1%) (For Inductor Current measurement)	0ohm	3216	Yageo	
DDRV	1	Small Signal Diode	100V / 0.2A	SOD80	ON Semiconductor	LL4148
CVDD1	1	MLCC X7R capacitor (±10%)	50V / 10uF	3216	TDK	
CVDD2	1	MLCC X7R capacitor (±10%)	100nF	2012	TDK	
CBIAS	1	MLCC X7R capacitor (±10%)	1nF	2012	TDK	
CFB	1	MLCC X7R capacitor (±10%)	10nF	2012	TDK	
CFB1	0	N.C				
CDIM	1	MLCC X7R capacitor (±10%)	1nF	2012	TDK	
J1,J2,J3	3	Jumper Wire	Short	Axial	ANY	
CON1, CON2	2	IN / OUT Connector	4Pin	Pitch 3.5mm	CUI Devices	TBL002A-350-04GY-2GY
PCB	1	FR-4, 1.6T, 65mm (L) x 30mm (W)	Single Layer PCB			