



Bill of Materials for the NCV7685GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U7	1	CMOS Hex Buffer IC	—	—	TSSOP-14	ON Semiconductor	74LVC07ADT	No	Yes
U8	1	CMOS Quad Buffer IC	—	—	TSSOP-14	ON Semiconductor	74LVC125ADT	No	Yes
LED2-3	2	ChipLED	White	—	LED_1608	AVAGO Technologies	ASMT-CW00	Yes	Yes
C2-3	2	Chip Capacitor	5p	50V	CAP_1608	Murata		Yes	Yes
C7	1	Chip Capacitor	2.2u	10V	CAP_1608	Murata		Yes	Yes
C5-6,C9,C10,C16,C18	6	Chip Capacitor	0.1u	50V	CAP_1608	Murata		Yes	Yes
C13,C17	2	Chip Capacitor	1u	10V	CAP_1608	Murata		Yes	Yes
C14	1	Chip Capacitor	0.01u	50V	CAP_1608	Murata		Yes	Yes
C15	1	Chip Capacitor	10u	10V	CAP_2012	Murata		Yes	Yes
U4	1	CMOS Regulator	3.3V	—	TSOT-23	ON Semiconductor	CAT6219-330TD	No	Yes
Y1	1	Chip CERAMLOCK	12MHz	—	CSTCE12M0G52	Murata	CSTCE12M0G52	Yes	Yes
CN2	DNP	3PIN CONNECTOR	—	—	IL-G-3P-S3T2-SA	JAE	IL-G-3P-S3T2-SA	Yes	Yes
CN3	1	4PIN CONNECTOR	—	—	IL-G-4P-S3T2-SA	JAE	IL-G-4P-S3T2-SA	Yes	Yes
U1	1	MCU	—	—	SQFP48	ON Semiconductor	LC88FTDB0Z	No	Yes
D2	1	Schottky Power Rectifier	—	—	SOD-123FL	ON Semiconductor	MBR120VLSF	No	Yes
D1	1	Schottky Power Rectifier	—	—	CASE 457	ON Semiconductor	MBRM120E	No	Yes
R88	DNP	Chip Resistor	0	±5%	RES_1608	ROHM		Yes	Yes
R6	1	Chip Resistor	1.5K	±5%	RES_1608	ROHM		Yes	Yes
R9 R15-17	4	Chip Resistor	10K	±5%	RES_1608	ROHM		Yes	Yes
R2-3 R10 R14	4	Chip Resistor	1K	±5%	RES_1608	ROHM		Yes	Yes
R18-19 R22	3	Chip Resistor	2.2K	±5%	RES_1608	ROHM		Yes	Yes
R11	1	Chip Resistor	220K	±5%	RES_1608	ROHM		Yes	Yes
R5 R7	2	Chip Resistor	33	±5%	RES_1608	ROHM		Yes	Yes
R21	1	Chip Resistor	51	±5%	RES_1608	ROHM		Yes	Yes
R20 R23	2	Chip Resistor	68	±5%	RES_1608	ROHM		Yes	Yes
SW1-2	DNP	Switch	—	—	SKRSPACE010	ALPS	SKRSPACE010	Yes	Yes
CN1	1	Micro USB Type-B	Micro-B	—	USB_47346-001	Molex	47346-001_	Yes	Yes