

Bill of Materials for the NCN6001DBEVB Evaluation Board

ON Semiconductor



8/16/2006

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	RoHS Compliant
R13	1	Zero Jumper Chip Resistor	0Ω, 01W	2%	0805	Welwyn	WCR 0805 0R0 G	Yes	Yes
R1, R3, R4, R5	4	Ceramic Chip Resistor	1.5kΩ, 1/8W	5%	0805	Phycomp	232273061152	Yes	Yes
R6, R7, R8, R50, R51	5	Ceramic Chip Resistor	10kΩ, 1/8W	5%	0805	Phycomp	232273061103	Yes	Yes
R14	1	Ceramic Chip Resistor	47kΩ, 0.1W	2%	0805	Welwyn	WCR 0805 47K G	Yes	Yes
R2, R9	2	Array Chip Resistor	10kΩ, 0.063W	5%	1206	Phycomp	ARC241-10K-5	Yes	Yes
X1	1	Oscillator	19.6608 MHz, 5 V	NA	7.5x5mm	Golledge	GXO-U108H/B-19.6608 MHz	Yes	Yes
C5, C6	2	Ceramic Chip Capacitor	4.7μF, 10V	10%	1206	muRata	GRM31CR61A475KA01L	Yes	Yes
C5	1	Ceramic Chip Capacitor	4.7μF, 6.3V	10%	0805	muRata	GRM21BR60J475KA11L	Yes	Yes
C55	1	Ceramic Chip Capacitor	1μF, 16V	10%	0805	muRata	GRM21BR61C105KA01L	Yes	Yes
C2, C57	2	Ceramic Chip Capacitor	10μF, 16V	10%	1206	muRata	GRM31CR61C106KA88L	Yes	Yes
C1	1	Ceramic Chip Capacitor	10μF, 6.3V	10%	0805	muRata	GRM21BR60J106KE19K	Yes	Yes
C50, C51, C52, C53	4	Ceramic Chip Capacitor	470nF, 16V	10%	0805	muRata	GRM21BR61C474KA01L	Yes	Yes
C9, C56	1	Ceramic Chip Capacitor	0.1μF, 50V	10%	0805	muRata	GRM21BR71H104KA01L	Yes	Yes
L1	1	Power Chip Inductor	22μH	10%	1210	Coilcraft	1008PS-223KL	Yes	Yes
U2	1	8-bit Microcontroller	NA	NA	LQFP-32	Freescale	MCHC908GR8CFAE	Yes	Yes
Q1	1	NPN Transistor	NA	NA	SOT-23	ON Semiconductor	MMBT2222ALT1G	No	Yes
U1	1	Smart Card Interface IC	NA	NA	TSSOP-20	ON Semiconductor	NCN6001DTBR2	No	Yes
S2	1	Tact Switch	NA	NA	6x6mm	ALPS	SKHHAJA010	Yes	Yes
J2	1	Smart Card Connector	NA	NA	NA	MOLEX	91321-0002 (landing)	Yes	Yes
	1	Smart Card Connector	NA	NA	NA	MOLEX	91322-0002 (friction)	Yes	Yes
D1, D4	2	Low Current Green LED	NA	NA	T1 (3mm)	Avago Tech	HLMP-1790	Yes	Yes
D2	1	Low Current Yellow LED	NA	NA	T1 (3mm)	Avago Tech	HLMP-1719	Yes	Yes
D3	1	Low Current Red LED	NA	NA	T1 (3mm)	Avago Tech	HLMP-1700	Yes	Yes
J50	1	Ground jumper	NA	NA	NA	Harwin	D3082-46	Yes	Yes
J51	1	DC Power Socket, D=2.5mm	12V, 5A	NA	9x14mm	Cliff Electronic Components	DC10B	Yes	Yes
U50	1	RS232 Interface	NA	NA	SO-16	ST Microelectronic	ST232CD	Yes	Yes
D54	1	Schottky Power Rectifier	1 A, 40 V	NA	SMA	ON semiconductor	MBRA140T3G	No	Yes
U51	1	Positive Voltage Regulator	500 mA, 5 V	NA	DPAK-3	ON semiconductor	MC78M05CDT G	No	Yes
J3	1	Low Profile Header, 16 Pin	NA	NA	Pitch 2.54mm	3M Electronic	N2516-6002RB	Yes	Yes
J52	1	RS232 Port, Female	NA	NA	NA	Tyco Amp	5747250-6	Yes	Yes
J1	1	Vertical Pin Header	NA	NA	Pitch 2.54mm	Harwin	N2516-6002RB	Yes	Yes
TP50, TP51	2	PCB Test Point	NA	NA	NA	Keystone	5005	Yes	Yes
SW50	1	RS232 Setup	NA	NA	NA	NA	NA	NA	NA
SW51	1	RS232 Setup	NA	NA	NA	NA	NA	NA	NA