



Bill of Materials for the NCN4555GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
U1	1	NCN4555, 1.8V / 3V Smart Card Interface	5.5 V, 30 μ A	NA	QFN-16	ON Semiconductor	NCN4555MNG	No	Yes
U2	1	SIM Card Connector	10 μ A min/1 A max	NA	SIM1	ITT Cannon	CCM03-3013LFT R102	Yes	Yes
U3	1	2-Input AND Gate with Open Drain Output	5.5 V	NA	TSOP-5	ON Semiconductor	MC74VHC1G09DFT1G	No	Yes
U4	1	Ultra Low Noise LDO voltage regulator with 1.0V On/Off Control	12 V	NA	TSOP-5	ON Semiconductor	MC33761SNT1-025G	No	Yes
U5	1	1 of 2 Decoder / Demultiplexer	5.5 V	NA	SC-88	ON Semiconductor	NL7SZ19DFT2G	No	Yes
C1,C2	2	Ceramic Capacitor, Y5V	100 nF, 50 V	-20%,+80%	0805	Murata	GRM219F51H104ZA01D	Yes	Yes
C3, C4, C5	3	Ceramic Capacitor, Y5V	1 μ F, 25 V	-20%,+80%	1206	Murata	GRM31MF51E105ZA01L	Yes	Yes
D1 (VDD), D2 (Vbat)	2	CHIPLED CMS, red, 15mcd	NA	NA	0805	OSRAM	LH R974	Yes	Yes
D3 (SIM_Vcc), D5 (1.8 V)	2	CHIPLED CMS, yellow, 60mcd	NA	NA	0805	OSRAM	LY R976	Yes	Yes
D4 (3V)	1	CHIPLED CMS, green, 9mcd	NA	NA	0805	OSRAM	LG R971	Yes	Yes
D6,D7	2	Small Signal Switch, Protection Diodes	100 V	NA	SOD123	ON Semiconductor	MMSD4148T1G	No	Yes
J1	1	0.100" Low Profile Box Headers 16 pins	1000 Vrms, 2 V	NA	0805	3M	N2516-6002-RB	Yes	Yes
J2	1	SMB male connector	NA	NA	SMB/V	Amphenol-RF Division	903-499J-51P2	Yes	Yes
J3, J4, J8, J9	4	Breakable single row header (3 pins)	NA	NA	2.54 mm	Molex	90120-0800	Yes	Yes
J7, J10	2	Breakable single row header (2 pins) (Idd, Ibat)	NA	NA	2.54 mm	Molex	90120-0800	Yes	Yes
J5, J6	2	Ground: strap, tin, \varnothing 1mm, pitch 10.16mm, height 9mm	NA	NA	10.166 mm pitch	Harwin	D3082-46	Yes	Yes
Q1	1	NPN transistor	NA	NA	SOT23	ON Semiconductor	BC849CLT1G	No	Yes
R2	1	Thick Film Chip Resistor	1 k Ω , 1/8 W	0.01	0805	Vishay	CRCW08051K00FKEA	Yes	Yes
R3,R4,R11	3	Thick Film Chip Resistor	680 Ω , 1/8 W	0.01	0805	Vishay/Dale	CRCW0805680RFKEA	Yes	Yes
R1	1	56k, CMS resistor 1%	56 k Ω , 1/4 W	0.01	1206	Vishay/Dale	CRCW120656K0FKEA	Yes	Yes
R5	1	Single Turn Cermet Trimmer	100 Ω , 1/2 W	0.1	CERMET-72PT	Vishay Spectrol	M63M101KB30T607	Yes	Yes
R6,R7	2	10k, CMS resistor 1%	10 k Ω , 1/4 W	0.01	1206	Vishay/Dale	CRCW120610K0FKEB	Yes	Yes
R10	1	220R, CMS resistor 1%	220 Ω , 1/8 W	0.01	0805	Vishay/Dale	CRCW0805220RFKEB	Yes	Yes
SW1, SW2	2	PCB jumper switch 1k2 (/STOP, MOD_Vcc)	12 V, 500 mA	NA	2.54 mm	EAO Secme	09-03290-01	Yes	Yes
TP1, TP2, TP3	3	CLK, RST, I/O clip test point	NA	NA	1 mm	Kobiconn	151-307-RC	Yes	Yes
TP4, TP5	2	/STOP, MOD_Vcc, clip test point	NA	NA	1 mm	Kobiconn	151-307-RC	Yes	Yes
TP6, TP7, TP8	3	SIM_CLK, SIM_RST, SIM_Vcc, clip test point	NA	NA	1 mm	Kobiconn	151-307-RC	Yes	Yes
TP9	1	SIM_VCC, clip test point	NA	NA	1 mm	Kobiconn	151-307-RC	Yes	Yes
TP10, TP11	2	Vbat, Vdd, clip test point	NA	NA	1 mm	Kobiconn	151-307-RC	Yes	Yes