



# Bill of Materials for the NCS36510GEVK Evaluation Board

**\* 2 Boards are required for each kit \***

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free	Comment
C1	1	10µF Molded Tantalum Capacitors 20V 2312 (6032 Metric) 1.2 Ohm 0.236" L x 0.126" W (6.00mm x 3.20mm)	10µF	±10%	CASEC_6032	AVX Corporation	TAJC106K020RNJ	Yes	Yes	
C2	1	CAP CER 0.022UF 25V X7R 0402	0.022µF	±10%	0402	TDK	C1005X7R1E223K050BB	Yes	Yes	
C3, C5, C6, C8, C9, C11, C13	7	CAP CER 0.1UF 25V X5R 0402	0.10µF	±20%	0402	TDK	C1005X5R1E104M050BC	Yes	Yes	
C4	1	CAP CER 0.033UF 16V X5R 0402	0.033µF	±20%	0402	TDK	C1005X5R1C333M050BA	Yes	Yes	
C7	1	CAP CER 10UF 6.3V X5R 0402	10µF	±20%	0402	TDK	C1005X5R0J106M050BC	Yes	Yes	
C10	1	CAP CER 1UF 6.3V X5R 0402	1µF	±20%	0402	TDK	C1005X5R0J105M050BB	Yes	Yes	
C12, C15, R11, R18, R25, R27	6	DNP	-	-	0402	-	-	-	Yes	DNP
D1	1	LED RED CLEAR 0603 SMD	-	-	0603	Rohm Semiconductor	SML-311UTT86	Yes	Yes	
D2	1	LED YELLOW DIFFUSED 0603 SMD	-	-	0603	OSRAM Opto Semiconductors	LY L29K-H1K2-26-Z	Yes	Yes	
D3	1	LED RED CLEAR 0603 SMD	-	-	0603	Rohm Semiconductor	SML-311UTT86	Yes	Yes	
D4	1	LED YELLOW DIFFUSED 0603 SMD	-	-	0603	OSRAM Opto Semiconductors	LY L29K-H1K2-26-Z	Yes	Yes	
D5	1	LED YELLOW DIFFUSED 0603 SMD	-	-	0603	OSRAM Opto Semiconductors	LY L29K-H1K2-26-Z	Yes	Yes	
F1	1	PTC RESTTBLE 0.50A 16V CHIP 1210	-	-	1210	Bel Fuse Inc	0ZCH0050FF2G	Yes	Yes	
J1	1	DNP	-	-	HEADER_6X2_100	-	-	-	Yes	DNP
J2	1	10 Positions Header, Shrouded Connector 0.050" (1.27mm) Through Hole Gold	-	-	CON_1.27MM_2X5	CNC Tech	3220-10-0100-00	Yes	Yes	
J3, J8, J9	3	2 Positions Header, Unshrouded Connector 0.100" (2.54mm) Through Hole Tin	-	-	CON1X2_100	FCI	68001-402HLF	Yes	Yes	
J4	1	DNP	-	-	HEADER_7X2_100	-	-	-	Yes	DNP
J5	1	DNP	-	-	POST_SOCKET_8x2	-	-	-	Yes	DNP
R1, R2, R3, R4, R20	5	RES SMD 680 OHM 5% 1/16W 0402	680 Ohms	±5%	0402	Vishay Dale	CRCW0402680RJNED	Yes	Yes	
R5, R9, R16	3	RES SMD 100K OHM 5% 1/16W 0402	100K Ohms	±5%	0402	Stackpole	RMCF0402JT100K	Yes	Yes	
R8	1	RES SMD 1K OHM 5% 1/16W 0402	1K Ohms	±5%	0402	Vishay Dale	CRCW04021K00JNED	Yes	Yes	
R10	1	RES SMD 100 OHM 5% 1/16W 0402	100 Ohms	±5%	0402	Stackpole Electronics	RMCF0402JT100R	Yes	Yes	
R12	1	RES SMD 470 OHM 5% 1/16W 0402	470 Ohms	±5%	0402	Stackpole	RMCF0402JT470R	Yes	Yes	
R13, R15	2	RES SMD 0.0OHM JUMPER 1/10W 0603	0	Jumper	0603	Panasonic	ERJ-3GEY0R00V	Yes	Yes	
R14	1	RES SMD 1.5K OHM 5% 1/16W 0402	1.5k Ohms	±5%	0402	Stackpole	RMCF0402JT1K50	Yes	Yes	
R17, R19	2	DNP	-	-	0603	-	-	-	Yes	DNP
R21	1	RES SMD 9.1 OHM 1% 1/8W 0805	9.1 Ohms	±1%	0805	Vishay Dale	CRCW08059R10FKEA	Yes	Yes	
R22	1	RES SMD 232K OHM 1% 1/16W 0402	232k Ohms	±1%	0402	Vishay Dale	CRCW0402232KFKED	Yes	Yes	
R23	1	RES SMD 33.2K OHM 1% 1/16W 0402	33.2k Ohms	±1%	0402	Yageo	RC0402FR-0733K2L	Yes	Yes	
R24	1	RES SMD 66.5K OHM 1% 1/10W 0402	66.5k Ohms	±1%	0402	Panasonic	ERJ-2RKF6652X	Yes	Yes	
R26	1	RES SMD 0.0OHM JUMPER 1/16W 0402	0	Jumper	0402	Stackpole	RMCF0402ZT0R00	Yes	Yes	
SW1	1	SWITCH TACTILE SPST-NO 0.02A 15V	15V	-	SW_B3SL-1002P	Panasonic Electronic Components	EVQ-Q2F01W	Yes	Yes	
TP1, TP2	2	TEST POINT PC LOW PRO W/OUT BASE	-	-	TP5021	Keystone Electronics	5021	Yes	Yes	
U1	1	NCAT00LKT002G4MNG	-	-	LakotaRFmod	ON Semiconductor	NCAT00LKT002G4MNG	No	Yes	RF module
U2	1	IC USB FS DUAL UART/FIFO 48-LQFP	-	-	QFP50P900X900X160-48N	FTDI	FT232D-REEL	No	Yes	
U3	1	IC FILTER USB ESD PROTECT SOT563	22 Ohms	-	SOT-563	ON Semiconductor	NUF2042XV6T1G	Yes	Yes	
U4	1	DNP	-	-	CHOKE_DLW31SN900SQ2L	-	-	-	Yes	DNP
U5	1	CMC 90 OHM 370MA 2 LN SMD	-	-	CHOKE_DLW31SN900SQ2L	Murata	DLW31SN900SQ2L	Yes	Yes	
U6	1	IC REG LDO 3.3V 0.3A SOT223	-	-	SOT-223	ON Semiconductor	NCV33375ST3.3T3G	Yes	Yes	
U7	1	IC CURRENT MONITOR 3% SOT23-5	-	-	INA193	Texas Instruments	INA193AIDBVT	Yes	Yes	
U8	1	IC REG LDO ADJ 0.1A SOT23-5	-	-	SOT95P279X122-5N	Texas Instruments	TPS76201DBVR	Yes	Yes	
USB1	1	CONN RECEPT MINI USB2.0 5POS	-	-	HIROSE_UX60-MB-5ST	Hirose Electric Co Ltd	UX60-MB-5ST	Yes	Yes	
X1	1	CRYSTAL 6.000MHZ 18PF SMD	-	-	ABLSG-6.000MHZ-D2Y-T	Abracon Corporation	ABLSG-6.000MHZ-D2Y-T	Yes	Yes	
MH1, MH2, MH3, MH4	4	HEX STANDOFF	-	-	MOUNTING HOLE 3.5mm	Keystone Electronics	2201	Yes	Yes	
MH1, MH2, MH3, MH4	4	MACHINE SCREW PAN PHILLIPS 4-40	-	-	MOUNTING HOLE 3.5mm	B&F Fastener Supply	PMSSS 440 0025 PH	Yes	Yes	
N/A	1	CBL USB A-MINI B CON 6' 26/28 AWG	-	-	N/A	Qualtek	3021009-06	Yes	Yes	
N/A	3	CONN JUMPER SHORTING GOLD FLASH	-	-	N/A	Sullins Connector Solutions	SPC02SYAN	Yes	Yes	