



Bill of Materials for the NIS5420MT1GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
CDVDT	1	CAP CER 180PF 50V NPO 0603	180pF	±1%	0603	Kemet	C0603C223K5RACTU	Yes	Yes
CIMON,COUT1,CIN1	3	CAP CER 1UF 50V X5R 0603	1uF/50V	±10%	0603	Taiyo Yuden	UMK107BJ105KA-T	Yes	Yes
COUT2,CIN2	0	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP
D2	1	LED YELLOW CLEAR SMD	LED0603-YELLOW		0603	Lite-On Inc	LTST-C191KSKT	Yes	Yes
D3	1	DIODE GEN PURP 100V 200MA SOD323	BAS16H		SOD323	ON Semiconductor	BAS16HT1G	No	Yes
D4,LEDOUT	2	LED GREEN CLEAR SMD	LED0603-GREEN		0603	Lite-On Inc	LTST-C191TGKT	Yes	Yes
J13	0	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP
JCOUT2,JCIN2,JCOUT PUTSHORT,JENTOG ND,JDVDT	5	CONN HEADER VERT 2POS 2.54MM	HDR-2		HEADER-2	3M	961102-6404-AR	Yes	Yes
JGND1,JGND2,JVout, JVCC	4	CONN BANANA JACK SOLDER	BANANA JACK		Through Hole	Keystone Electronics	575-8	Yes	Yes
M1,M2	2	MOSFET N-CH 60V 320MA SOT-23	2N7002KT1G		SOT-23	ON Semiconductor	2N7002KT1G	No	Yes
Q1	1	TRANS NPN 40V 0.2A SOT23	MMBT3904LT1G		SOT-23	ON Semiconductor	MMBT3904LT1G	No	Yes
R1	1	RES SMD 3M OHM 5% 1/10W 0603	3MegOhm	±5%	0603	Panasonic Electronic Components	ERJ-3GEYJ305V	Yes	Yes
R2,R3	2	RES SMD 1.1M OHM 5% 1/10W 0603	1.1MegOhm	±5%	0603	Panasonic Electronic Components	ERJ-3GEYJ115V	Yes	Yes
R4,R6	2	RES SMD 10K OHM 5% 1/10W 0603	10KOhm	±5%	0603	Panasonic Electronic Components	ERJ-3GEYJ103V	Yes	Yes
R5,RLEDOUT	2	RES SMD 51K OHM 5% 1/10W 0603	51kOhm	±5%	0603	Panasonic Electronic Components	ERJ-3GEYJ513V	Yes	Yes
RDIRECT	1	RES SMD 0 OHM JUMPER 1/8W 0805	0Ohm		805	Panasonic Electronic Components	ERJ-6GEY0R00V	Yes	Yes
RIMON	1	RES SMD 1K OHM 0.1% 1/10W 0603	1kOhm	±0.1%	0603	Panasonic Electronic Components	ERA-3AEB102V	Yes	Yes
RLIMADJ	1	TRIMMER 100 OHM 0.25W GW TOP ADJ	100Ohm		Gull Wing	Bourns Inc.	3214X-1-101E	Yes	Yes
RLIMMIN	1	RES SMD 10 OHM 1% 1/10W 0603	10Ohm	±1%	0603	Yageo	RC0603FR-0710RL	Yes	Yes
SW1	1	SWITCH TACTILE SPST-NO 0.05A 12V	PB-SW		Through Hole	E-Switch	TL1105FF160Q	Yes	Yes
TPRLIM1,TPGND1,T PRLIM2,TPGND2,TP GND3,TPVOUT,TPV CC,TPIMON,TPENAB LE,GATE	10	PC TEST POINT MINIATURE WHITE	TP-HOOK		Through Hole	Keystone Electronics	5002	Yes	Yes
U1	1	12 V eFuse	NIS5420MT6		WDFN10-3x3	ON Semiconductor	NIS5420MT6	No	Yes
U2	0	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP
ZDIN	1	DIODE ZENER 33V 500MW SOD523	33 Vz		SOD523	ON Semiconductor	MM5Z33VT1G	No	Yes
ZDOUT	0	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP

