



Bill of Materials for the NIS5431GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C4	1	DNP	10uF/16V	-	6032				Yes
C1	1	CAP ALUM POLY 56UF 20% 25V SMD	56uF/25V	-		Nichicon	493-4377-1-ND		Yes
C3	1	CAP CER 0.1UF 50V 10% X7R 0603	0.1uF	-	603	Kemet	399-5089-1-ND		Yes
C2,C5	2	DNP		-					Yes
C6	1	CAP CER 1000PF 50V 10% X7R 0603	1nF	-	603	Kemet	399-1082-1-ND		Yes
C7,C8	2	CAP CER 1UF 25V X7R 1206	1uF/25V	-	1206	TDK	445-1592-1-ND		Yes
D1	1	LED YELLOW CLEAR THIN 0603 SMD	LED0603-YELLOW	-	LED0603	Lite-On Inc.	160-1448-1-ND		Yes
D2,D4	2	LED GREEN CLEAR 0603 SMD	LED0603-GREEN	-	LED0603	Lite-On Inc.	160-1888-1-ND		Yes
D3	1	DIODE GEN PURP 100V 200MA SOD323	BAS16HT1G	-	SOD-323	ON Semiconductor	BAS16HT1GOSCT-ND		Yes
J1	1	CONN HEADER VERT .100 3POS 15AU	HEADER 3	-	HEADER-3	TE Connectivity AMP Connect	A26545-ND		Yes
J2	1	CONN HEADER VERT DUAL 6POS GOLD	HEADER-3x2	-	HEADER-3x2-TH	3M	3M9459-ND		Yes
J3	1	CONN HEADER VERT SGL 4POS GOLD	HEADER-4	-	HEADER-4	3M	3M9449-ND		Yes
J4,J6,J7,J8,J13,J15,J32	7	CONN HEADER VERT SGL 2POS GOLD	HEADER 2	-	HEADER-2	3M	3M9447-ND		Yes
J9,J14,J23	3	TEST POINT PC MINI .040"D RED	TP-HOOK	-	TP-HOOK	Keystone Electronics	36-5000-ND		Yes
J11,J15,J16,J22	4	TEST POINT PC MINI .040"D BLACK	TP-HOOK	-	TP-HOOK	Keystone Electronics	36-5001-ND		Yes
J5,J10	2	TEST POINT PC MINI .040"D YELLOW	TP-HOOK	-	TP-HOOK	Keystone Electronics	36-5004-ND		Yes
J17	1	TEST POINT PC MINI .040"D WHITE	TP-HOOK	-	TP-HOOK	Keystone Electronics	36-5002-ND		Yes
J18	1	Banana conn	DELTRON-RED	-	DELTRON-2P	Multicomp	NEWARK 24.243.1		Yes
J19	1	Banana conn	DELTRON-BLACK	-	DELTRON-2P	Multicomp	NEWARK 24.243.2		Yes
J20	1	Banana conn	DELTRON-YELLOW	-	DELTRON-2P	Multicomp	NEWARK 24.243.3		Yes
J24	1	CONN JACK POWER 2.1MM PCB	PWR JACK	-	PWR JACK	CUI Inc.	CP-102A-ND		Yes
J33	1	DNP	HEADER 2	-	HEADER 2				Yes
M1,Q5	2	MOSFET N-CH 60V 320MA SOT-23	2N7002KT1G	-	SOT-23	ON Semiconductor	2N7002KT1GOSCT-ND		Yes
Q2	1	TRANS NPN 40V 200MA SOT23	MMBT3904LT1G	-	SOT-23	ON Semiconductor	MMBT3904LT1GOSCT-ND		Yes
R1	1	RES 18.0 OHM 1/4W 1% 1206 SMD	18R	-	1206	Vishay Dale	541-18.0FCT-ND		Yes
R2,R6	2	RES 25 OHM 5W 1% AXIAL	25R/5W	-	RES-5W-TH	Riedon	696-1075-ND		Yes
R3	1	RES SMD 2.2K OHM 5% 1/10W 0603	2.2K	-	603	Panasonic Electronic Compone	P2.2KGCT-ND		Yes
R4	1	RES 10.0 OHM 1/4W 1% AXIAL	10R	-	R1_4W	Vishay Dale	CMF10.0QFCT-ND		Yes
R5,R11,R12	2	RES SMD 10K OHM 5% 1/10W 0603	10K	-	603	Panasonic Electronic Compone	P10KGCT-ND		Yes
R7	1	RES 3M OHM 1/10W 5% 0603 SMD	3M	-	603	Panasonic Electronic Compone	P3.0MGCT-ND		Yes
R8,R9	2	RES 1.1M OHM 1/10W 5% 0603 SMD	1.1M	-	603	Panasonic Electronic Compone	P1.1MGCT-ND		Yes
R10	1	RES 51 OHM 1/4W 1% 1206 SMD	50R	-	1206	Vishay Dale	541-49.9FCT-ND		Yes
SW1	1	SWITCH TACTILE SPST-NO 0.05A 12V	PB-SW	-	SW-TAC-SPST	E-Switch	EG4369-ND		Yes
U1	1	Electronic fuse	NIS54XX	-	WDFN-10	ON Semiconductor		No	