



Bill of Materials for the NIS5021MT1GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free	Comments
C1	1	CAP ALUM POLY 56UF 20% 25V SMD	56uF/25V	20%		Nichicon	C4532X7R1E106M250KA	-	YES	-
C2	1	CAP CER 0.1UF 50V 10% X7R 0603	0.1uF	10%	603	Kemet	C0603C104K5RACTU	-	YES	-
C5	1		DNP	-	603			-	YES	-
C3,C6	2	CAP CER 0.047 UF 25V X7R 0603	47nF	-	603	Kemet	C0603C473K3RACTU	-	YES	-
C7,C8	2	CAP CER 1UF 25V X7R 1206	1uF/25V	-	1206	TDK Corporation	C3216X7R1E105K085AA	-	YES	-
D1	1	LED YELLOW CLEAR THIN 0603 SMD	LED0603-YELLOW	-	LED0603	Lite-On Inc	L1ST-C1914SKT	-	YES	-
D2, D4	1	LED GREEN CLEAR 0603 SMD	LED0603-GREEN	-	LED0603	Lite-On Inc	L1ST-C191TGKT	-	YES	-
D3	1	DIODE SWITCHING 100V 0.2A SOD323	BAS16H	-	SOD-323	ON Semiconductor	BAS16HT1G	NO	YES	-
EN/Fail	1	TEST POINT PC MINI .040"D WHITE	TP-HOOK	-	TP-HOOK	Keystone Electronics	5002	-	YES	-
Output	2	TEST POINT PC MINI .040"D YELLOW	TP-HOOK	-	TP-HOOK	Keystone Electronics	5004	-	YES	-
J2	1	CONN 10POS 2MM HEADER DUAL GOLD	HDR-5x2	-	HEADER-5x2-1h	3M	151210-8422-0B	-	YES	-
J3	1	CONN HEADER R/A SGL 4POS GOLD	H1x4	-	HEADER-4-100ML-RA	3M	961104-5604-AR	-	YES	-
J6,J8,J13,J29,J	8	CONN HEADER VERT SGL 2POS GOLD	HDR-2	-	HEADER-2	3M	961102-6404-AR	-	YES	-
J9,J14,Vcc	3	TEST POINT PC MINI .040"D RED	TP-HOOK	-	TP-HOOK	Keystone Electronics	5000	-	YES	-
J1,J12,J15,J16,J	5	TEST POINT PC MINI .040"D BLACK	TP-HOOK	-	TP-HOOK	Keystone Electronics	5001	-	YES	-
J24	1	CONN JACK POWER 2.1MM PCB	PWR JACK	-	PWR JACK	CUI Inc	PJ-102A	-	YES	-
M1,Q5	2	MOSFET N-CH 60V 320MA SOT-23	2N7002KT1G	-	SOT-23	ON Semiconductor	2N7002KT1G	NO	YES	-
Q2	1	TRANS NPN 40V 200MA SOT23	MMBT3904LT1G	-	SOT-23	ON Semiconductor	MMBT3904LT1G	NO	YES	-
R2,R4,R6,R27	4	RES 200 OHM 5W 1% AXIAL	200R/5W	1%	RES-5W-TH	Riedon	UB5C-200R8	-	YES	-
R3,R12	2	RES SMD 10K OHM 5% 1/10W 0603	10K	5%	603	Yageo	RC0603JR-0710KL	-	YES	-
R5,R11	2	RES SMD 51K OHM 5% 1/10W 0603	51K	5%	603	Yageo	RC0603JR-0751KL	-	YES	-
R7	1	RES 3M OHM 1/10W 5% 0603 SMD	3M	5%	603	anasonic Electronic Component	ERJ-3GEYJ305V	-	YES	-
R8,R9	2	RES 1.1M OHM 1/10W 5% 0603 SMD	1.1M	5%	603	anasonic Electronic Component	ERJ-3GEYJ115V	-	YES	-
R22	1	RES 20.0 OHM 1/4W 1% AXIAL	20R	1%	AXIAL	Vishay Dale	CMF5020R00DFHE8	-	YES	-
R23	1	RES 24.9 OHM 1/4W 1% AXIAL	25R	1%	AXIAL	Vishay Dale	CMF5024R00DFHE8	-	YES	-
R24	1	RES 30.1 OHM 1/4W 1% AXIAL	30R	1%	AXIAL	Vishay Dale	CMF5030R100DFHE8	-	YES	-
R25	1	RES 34.8 OHM 1/4W 1% AXIAL	35R	1%	AXIAL	Vishay Dale	CMF5034R800DFHE8	-	YES	-
R26	1	RES 40.2 OHM 1/4W 1% AXIAL	40R	1%	AXIAL	Vishay Dale	CMF5040R200DFHE8	-	YES	-
SW1	1	SWITCH TACTILE SPST-NO 0.05A 12V	PB-SW	-	SW-TAC-SPST	E-Switch	TL1105FF160Q	-	YES	-
J18	1	Banana Connector	DELTRON-RED	-	DELTRON-2P	DEM Manufacturing	571-0500-3	-	YES	-
J19,J21	2	Banana Connector	DELTRON-BLACK	-	DELTRON-2P	DEM Manufacturing	571-0100-3	-	YES	-
J20	1	Banana Connector	DELTRON-YELLOW	-	DELTRON-2P	DEM Manufacturing	571-0700-3	-	YES	-
U1	1	NIS5021MT1XG	-	-	WDFN10	ON Semiconductor	NIS5021MT1XG	NO	Yes	-