Bill of Materials for the NIS3071MTW3TWG Evaluation Board

Designator (Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
All Test Points	21	TP-HOOK	N/A	N/A	TP-HOOK	Keystone Electronics	5002	Yes	Yes
CDVDT1	1	CAP, CERAMIC, 100pF, 50V, C0G, 5%, 0603	100pF	5%	SM0603_CAP_NOM	Yageo	CC0603JRNPO9BN101	Yes	Yes
CDVDT2	1	CAP, CERAMIC, 180pF, 50V, C0G, 5%, 0603	180pF	5%	SM0603_CAP_NOM	Yageo	CC0603FRNPO9BN181	Yes	Yes
Cin1,Cin2,Cin3,Cin4	4	CAP, ELECTROLYTIC, 56uF, 63V, 20%, SMD	56uF	20%	cap_smd_8p3x8p3	Nichicon	PCR1J560MCL1GS	Yes	Yes
Cout1,Cout2,Cout3,Cout4	4	DNP	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CRAIL	1	CAP, CERAMIC, 10uF, 25V, X5R, 20%, 0603	10uF	20%	SM0603_CAP_NOM	Yageo	CC0603MRX5R8BB106	Yes	Yes
U2	1	4 Diode Array Common Cathode	N/A	N/A	TSOP5	Toshiba	1SS309(TE85L,F)	Yes	Yes
DFAULT	1	LED, YELLOW, 0603	N/A	N/A	LED0603	Lite-On Inc	LTST-C191KSKT	Yes	Yes
DOUT1,DOUT2,DOUT3,DOUT4	4	LED, GREEN, 0603	N/A	N/A	LED0603	Lite-On Inc	LTST-C191TGKT	Yes	Yes
JDUT (Edge Connector)	1	DNP	N/A	N/A	CONN-EDGE-20x2-THRU	Sullins	EBC20DRTH	N/A	Yes
JEN1,JEN2,JEN3,JEN4	4	HEADER, 3-PIN	N/A	N/A	header-3	3M	961103-6404-AR	Yes	Yes
JRLIM1,JDVDT1,JRLIM2,JDVDT2,JRLIM3,JRLIM4,Jin12,Jin23,JIN34,JRAIL,JFAULT	11	HEADER, 2-PIN	N/A	N/A	HEADER-2	3M	961102-6404-AR	Yes	Yes
JOUT1,JIN1,JGND1,JOUT2,JIN2,JGND2,JOUT3,JIN3,JGND3,JOUT4,JIN4,JGND4,JGND5,JGND6,JGND7,JGND8	16	BANANA JACK	N/A	N/A	banana_via	Keystone Electronics	575-8	Yes	Yes
RLIM1	1	RES, SMD, 62K, 1/10W, 0.1%, 0603	62K	0.1%	0603	Panasonic	ERA-3APB623V	Yes	Yes
RLIM2	1	RES, SMD, 30K, 1/10W, 0.1%, 0603	30k	0.1%	0603	Panasonic	ERA-3AEB303V	Yes	Yes
RLIM4	1	DNP	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R1,R2,R3,RLIM3	4	RES, SMD, 15K, 1/10W, 0.1%, 0603	15k	0.1%	0603	Panasonic	ERA-3AEB153V	Yes	Yes
R4	1	RES, SMD, 100R, 1/10W, 1%, 0603	100R	1%	0603	Panasonic	ERJ-3EKF1000V	Yes	Yes
R5	1	RES, SMD, 100K, 1/10W, 1%, 0603	100K	1%	0603	Panasonic	ERJ-3EKF1003V	Yes	Yes
R6,R7,R8,R9	4	RES, SMD, 120K, 1/10W, 1%, 0603	120K	1%	0603	Panasonic	ERJ-3EKF1203V	Yes	Yes
Sout1,Sout2,Sout3,Sout4	4	Schottky Diode	N/A	N/A	1210rf_wv_12d	ON Semiconductor	MBRS360BT3G	Yes	Yes
U1	1	NIS3071MTW3TWG	N/A	N/A	WQFN16_5x6	ON Semiconductor	NIS3071MTW3TWG	No	Yes
Zin1,Zin2,Zin3,Zin4	4	Protection Zener Diode	62V	N/A	1210rf_wv_12d	ON Semiconductor	1SMB5944BT3G	Yes	Yes
ZRAIL	1	Regulator Zener Diode	4.7V	N/A	sod-123	ON Semiconductor	MMSZ5230BT1G	Yes	Yes