

BOM		Bill of Materials for Variant [Assembly DNP] of Project [ADC_TESTER_POWER 03-07-2024.PrjPcb] (No PCB Document Selected)									
Source Data From:		ADC_TESTER_POWER 03-07-2024.PrjPcb									
Project:		ADC_TESTER_POWER 03-07-2024.PrjPcb									
Variant:		Assembly DNP									
Report Date:		02:47									
Print Date:		3:26:15 AM									
#	Designator	Quantity	Description	Component Value	MFG Part Number	Manufacturer	Package	Fitted	Library Name	Database Table Name	LibRef
1	C1, C11	2	1000 pF ±10% 2000V (2kV) Ceramic Capacitor X7R 1206 (3216 Metric)	1000pF/2KV	C1206X102K202T	Holy Stone Enterprise Co., Ltd.	1206	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-158
2	C2	1	Aluminium Electrolytic Capacitors - Axial Leaded 100VDC 1000uF 30% High Reliability	1000uF/100V/A	B41693A9108Q001	EPCOS / TDK	TH	Fitted	MSPLDB2022.DbLib	CAPACITOR-TH	CAP-011
3	C3, C18, C35, C52	4	Aluminium Electrolytic Capacitors - SMD 80VDC 390uF 20% SMD AEC-Q200 High Ripple	390 uF/80V/A	EEE-TP1K391M	Panasonic	Radial CAN-SMD	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-192
4	C4, C5	2	Multilayer Ceramic Capacitors MLCC - SMD/SMT X7S, 10uF, +/-10%, 100v, 1210	10uF/100V	CL32Y106KCVZ4NE	Samsung Electro-Mechanics	1210	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-178
5	C6, C7, C63, C64, C65	5	0.1 µF ±10% 100V Ceramic Capacitor X5R 0402 (1005 Metric)	0.1uF/100V	GRM155R62A104KE14D	Murata Electronics	0402	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-155
6	C8, C9	2	Safety Capacitors WCAP-FTXX 4mm Lead 0.68uF 10% 310VAC	0.68uF/310V	890334026020CS	Würth Elektronik	TH (26x7.5x15, e=22.5mm)	Fitted	MSPLDB2022.DbLib	CAPACITOR-TH	CAP-010
7	C10	1	Safety Capacitors WCAP-FTXX 4mm Lead 1uF 10% 310VAC	1uF/310V	890334026027CS	Würth Elektronik	TH (26x11x20, e=22.5mm)	Fitted	MSPLDB2022.DbLib	CAPACITOR-TH	CAP-009
8	C12, C29, C46	3	0.015 µF ±10% 50V Ceramic Capacitor X7R 0402 (1005 Metric)	15nF/50V	CC0402KRX7R9BB153	YAGEO	0402	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-135
9	C13, C30, C47	3	2.2 µF ±10% 100V Ceramic Capacitor X7R 1206 (3216 Metric)	2.2uF/100V	12061C225KAT4A	KYOCERA AVX	1206	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-055
10	C14, C31, C48	3	0.047uF ±10% 16V Ceramic capacitor X7R 0402(1005Metric)	47nF/16V	CL05B473K05NNNC	samsung Electronic - mechanics	0402	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-002
11	C15, C32, C49	3	4.7 µF ±10% 100V Ceramic Capacitor X5R 0805 (2012 Metric)	4.7uF/100V	C2012X5R2A475K125AC	TDK Corporation	0805	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-121
12	C16, C22, C23, C33, C39, C40, C50, C56, C57	9	Multilayer Ceramic Capacitors MLCC - SMD/SMT CGA 1206 100V 0.47uF X7R 10% AEC-Q200	0.47 uF/100V	CGA5L2X7R2A474K160AA	TDK	1206	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-174
13	C17, C34, C51	3	0.22 µF ±10% 25V Ceramic Capacitor X7R 0402 (1005 Metric)	0.22uF/25V	CGA2B3X7R1E224K050BB	TDK Corporation	0402	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-111
14	C19, C36, C53	3	Aluminium Electrolytic Capacitors - SMD 22uF 50V	22uF/50V	EEE-FK1H220P	Panasonic	CAN-SMD	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-139
15	C20, C21, C37, C38, C54, C55	6	Tantalum Capacitors - Solid SMD 10uF 63volt 20% E Case Molded	10uF/63V/T	293D106X0063E2TE3	Vishay / Sprague	2917	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-179
16	C24, C41, C58	3	1000 pF ±1% 50V Ceramic Capacitor C0G, NP0 0402 (1005 Metric)	1nF/50V	GRM1555C1H102FA01D	Murata Electronics	0402	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-198
17	C25, C26, C43, C60	4	10000 pF ±10% 50V Ceramic Capacitor X7R 0402 (1005 Metric)	10nF/50V	CL05B103KB5NNNC	Samsung Electro-Mechanics	0402	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-047
18	C27, C44, C61	0	0.022 µF ±10% 50V Ceramic Capacitor X7R 0402 (1005 Metric)	22nF/50V	CGA2B3X7R1H223K050BB	TDK Corporation	0402	Not Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-078
19	C28, C45, C62	3	22 pF ±5% 50V Ceramic Capacitor C0G, NP0 0402 (1005 Metric)	22pF/50V	CGA2B2NP01H220J050BA	TDK Corporation	0402	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-136
20	C42	1	3900 pF ±2% 50V Ceramic Capacitor C0G, NP0 0402 (1005 Metric)	3.9nF/50V	GRM1555C1H392GE01D	Murata Electronics	0402	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-203
21	C59	1	2700 pF ±5% 25V Ceramic Capacitor C0G, NP0 0603 (1808 Metric)	2.7nF/25V	C0603C272J3GAC7867	KEMET	0603	Fitted	MSPLDB2022.DbLib	CAPACITOR-SMD	CAP-010
22	D1	1	ESD Suppressors / TVS Diodes TVS 500W 50V		SACB50	Littelfuse	DO-214AA-2	Fitted	MSPLDB2022.DbLib	DIODE-SMD	DIODE-075
23	D2, D4, D6	3	Diode Schottky 200 V 2A Surface Mount SMA (DO-214AC)		SK220ATR	SMC Diode Solutions	DO-214AC	Fitted	MSPLDB2022.DbLib	DIODE-SMD	DIODE-049
24	D3	1	48.4V Clamp 31A Ipp Tvs Diode Surface Mount SMC (DO-214AB)		SMCJ30CA	SMC Diode Solutions	DO-214AB	Fitted	MSPLDB2022.DbLib	DIODE-SMD	DIODE-036
25	D5	1	TVS 53.5V Clamp 187A (8/20us) Ipp Surface Mount SMB Flat		SMB15F26A	STMicroelectronics	DO-221AA	Fitted	MSPLDB2022.DbLib	DIODE-SMD	DIODE-024
26	D7	1	24.4V Clamp 61.5A Ipp Tvs Diode Surface Mount SMC (DO-214AB)		SMCJ15CA	SMC Diode Solutions	DO-214AB	Fitted	MSPLDB2022.DbLib	DIODE-SMD	DIODE-037
27	F1	1	Fuse Holder 2AG 1 POLE		02540101Z	Littelfuse	TH	Fitted	MSPLDB2022.DbLib	FUSE-TH	FUS-001
28	J1	1	Fixed Terminal Blocks WR-TBL 300VAC 14A 3P Horizontal		691241810003	Würth Elektronik	TH	Fitted	MSPLDB2022.DbLib	CONNECTOR-TH	CONN-075
29	J2, J3, J4, J6, J7, J8	6	16 Pin Screw Terminal, Power Tap M4 Through Hole		7461095	Würth Elektronik	TH	Fitted	MSPLDB2022.DbLib	CONNECTOR-TH	CONN-078
30	J9	0	2 (1 X 2) Position Shunt Connector Red Closed Top, Grip 0.200" (5.08mm) Gold		D3086-99	Harwin Inc	TH	Not Fitted	MSPLDB2022.DbLib	CONNECTOR-TH	CONN-010
31	L1	1	Common Mode Chokes / Filters WE-FI Leaded 150 uH 20% IR = 2.5A RDC = 0.10 Ohms		7447018	Würth Elektronik	TH (16.5x10.7x16.5, e=8.5mm)	Fitted	MSPLDB2022.DbLib	MAGNETICS-TH	MAG-017
32	L2	1	2.2 mH @ 10 kHz 2 Line Common Mode Choke Through Hole 2A DCR 100mOhm		7446622002	Würth Elektronik	TH	Fitted	MSPLDB2022.DbLib	MAGNETICS-TH	MAG-018

#	Designator	Quantity	Description	Component Value	MFG Part Number	Manufacturer	Package	Fitted	Library Name	Database Table Name	LibRef
33	L3	1	Power Inductors - SMD 47uH Shld 20% 4.6A 58mOhms AECQ2		MSS1210-473MEB	Coilcraft	4747	Fitted	MSPLDB2022.DbLib	MAGNETICS-SMD	MAG-015
34	L4	1	Power Inductors - SMD 68uH Shld 20% 4.3A 84mOhms AECQ2		MSS1210-683MEB	Coilcraft	SMD-1212 (mm)	Fitted	MSPLDB2022.DbLib	MAGNETICS-SMD	MAG-012
35	L5	1	150 uH Shielded Drum Core Inductor 1.75 A 185mOhm Max Nonstandard		MSS1210-154KED	Coilcraft	SMD (12 X 12mm)	Fitted	MSPLDB2022.DbLib	MAGNETICS-SMD	MAG-033
36	LED1	1	Red 620nm LED Indication - Discrete 2.2V 0603(1608 Metric)		SML-D12U8WT86C	Rohm Semiconductor	0603 (1608 Metric)	Fitted	MSPLDB2022.DbLib	DIODE-SMD	DIODE-013
37	LED2, LED3, LED4	3	Green 572nm LED Indication - Discrete 2.2V 0603 (1608 Metric)		SML-D12M8WT86	Rohm Semiconductor	0603	Fitted	MSPLDB2022.DbLib	DIODE-SMD	DIODE-006
38	Q1, Q2, Q3	3	N-Channel 60 V 45A (Ta), 100A (Tc) 107W (Tc) Through Hole TO-220-3		CSD18534KCS	Texas Instruments	TO-220-3	Fitted	MSPLDB2022.DbLib	ICs-TH	IC-021
39	R1, R5, R7	3	1.5 MOhms ±1% 0.25W, 1/4W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200, Moisture Resistant Thick Film	1.5M/250mW	RK73H2ATTD1504F	KOA Speer Electronics, Inc.	0805	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-475
40	R2, R4, R6	0	15 kOhms ±0.1% 0.125W, 1/8W Chip Resistor 0603 (1608 Metric) Anti-Sulfur, Automotive AEC-Q200 Thin Film	15K/125mW	ERA-3VEB1502V	Panasonic Electronic Components	0603	Not Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-495
41	R3	1	Thick Film Resistors - SMD 1watt 4.99Kohms 1% 100ppm	4.99K/1W	CRCW25124K99FKEG	Vishay	2512	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-521
42	R8, R17, R26	3	49.9 kOhms ±1% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thick Film	49.9K/100mW	ERJ-2RKF4992X	Panasonic Electronic Components	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-307
43	R9, R18, R27	3	60.4 Ohms ±0.5% 0.25W Chip Resistor 0603(1608 Metric) Automotive AEC- Q200, Pulse Withstanding Thick Film	60.4E/0.25W	ESR03EZPD60R4	Rohm Semiconductor	0603	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-162
44	R10, R19, R28	3	2.2 KOhms ±1% 0.125W Chip Resistor 0402 (1005 Metric) Pulse Withstanding Thick Film	2.2K/125mW	CRGP0402F2K2	TE Connectivity Passive Product	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-174
45	R11	1	51.1 kOhms ±1% 0.1W, 1/10W Chip Resistor 0402(1005 Metric) - Anti- sulfur, Automotive AEC- Q200, Moisture resistant Thick Film	51.1K/100mW	RK73H1ERTTP5112F	KOA Speer Electronics, Inc.	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-085
46	R12	1	20 mOhms ±1% 1W Chip Resistor Wide 1206 (3216 Metric), 0612 Current Sense Thin Film	20mE/1W	PRL1632-R020-F-T1	Susumu	1206	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-355
47	R13, R22, R32	3	24.3 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thin Film	24.3K/100mW	RT0603BRD0724K3L	YAGEO	0603	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-416
48	R14, R34	2	43.2 kOhms ±0.1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thin Film	43.2K/63mW	ERA-2AEB4322X	Panasonic Electronic Components	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-455
49	R15	1	13.3 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thin Film	13.3K/100mW	RT0603BRD0713K3L	YAGEO	0603	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-410
50	R16	1	1.69 kOhms ±1% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thick Film	1.69K/100mW	ERJ-2RKF1691X	Panasonic Electronic Components	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-107
51	R20	1	60.4 kOhms ±0.5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) - Thin Film	60.4K/100mW	RT0603DRE0760K4L	YAGEO	0603	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-263
52	R21	1	30 mOhms ±1% 0.5W, 1/2W CHIP RESISTOR 1206 (3216 Metric) Current Sense Thick Film	30mE/500mW	CSR1206FK30L0	Stackpole Electronics Inc	1206	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-563
53	R23	1	36 kOhms ±0.1% 0.1W, 1/10W CHIP RESISTOR 0603 (1608 Metric) Automotive AEC-Q200 Thin Film	36K/100mW	ERA-3AEB363V	Panasonic Electronic Components	0603	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-566
54	R24	1	30.9 kOhms ±0.1% 0.1W, 1/10W CHIP RESISTOR 0402 (1005 Metric) Thin Film	30.9K/100mW	RP73PF1E30K9BTD	TE Connectivity Passive Product	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-561
55	R25	1	1.62 kOhms ±0.1% 0.063W, 1/16W CHIP RESISTOR 0402 (1005 Metric) Automotive AEC-Q200 Thin Film	1.62K/63mW	ERA-2AEB1621X	Panasonic Electronic Components	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-564
56	R29	1	124 kOhms ±1% 0.1W, 1/10W Chip Resistor 0402 (1005 Metric) Automotive AEC-Q200 Thick Film	124K/100mW	ERJ-2RKF1243X	Panasonic Electronic Components	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-308
57	R30	1	50 mOhms ±1% 0.5W, 1/2W CHIP RESISTOR 0805 (2012 Metric) Automotive AEC- Q200, Current Sense Thick Film	50mE/500mW	ERJ-6BWFR050V	Panasonic Electronic Components	0805	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-560
58	R31	1	10 kOhms ±0.1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Thin Film	10K/63mW	RT0402BRE0710KL	YAGEO	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-313
59	R33	1	12.1 kOhms ±0.1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) - Thin Film	12.1K/63mW	RN73C1E12K1BTD	TE Connectivity Passive Product	0402	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-031

#	Designator	Quantity	Description	Component Value	MFG Part Number	Manufacturer	Package	Fitted	Library Name	Database Table Name	LibRef
60	R35	1	1.8 kOhms ±0.1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thin Film	1.8K/100mW	RT0603BRD071K8L	YAGEO	0603	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-467
61	R36, R37, R38	3	6.49 kOhms ±1% 0.125W, 1/8W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200 Thick Film	6.49K/125mW	ERJ-6ENF6491V	Panasonic Electronic Components	0805	Fitted	MSPLDB2022.DbLib	RESISTOR-SMD	RES-258
62	RT1	1	Polymeric PTC Resettable Fuse 60V 2 A 1h Surface Mount Nonstandard SMD	3425L200/60MR	3425L200/60MR	Littelfuse Inc.	SMD(8.65 X 6.35 X 1.8mm)	Fitted	MSPLDB2022.DbLib	PTC-SMD	PTC-018
63	RT2	1	Inrush Current Limiter 2.2 Ohms ±20% 1 A 0.453" (11.50mm)	B57236S229M	B57236S229M	EPCOS - TDK Electronics	TH (11.5x5x16, e=5mm)	Fitted	MSPLDB2022.DbLib	PTC-TH	PTC-006
64	RT3, RT4, RT5	3	Resettable Fuses - PPTC 2A 240V	0ZRE0200FF1A	0ZRE0200FF1A	Bel	TH	Fitted	MSPLDB2022.DbLib	PTC-TH	PTC-005
65	TP1, TP2, TP3	3	Black PC Test Point, Miniature Phosphor Bronze Silver Plating 0.040" (1.02mm) Hole Diameter Mounting Type		5001	Keystone Electronics	TH	Fitted	MSPLDB2022.DbLib	CONNECTOR-TH	CONN-013
66	U1	1	Enclosed AC DC Converters 1 Output 36V 1.94A 90 ~ 264 VAC Input		VBM-70-36-H	CUI Inc.	TH	Fitted	MSPLDB2022.DbLib	ICs-TH	IC-022
67	U2, U3, U4	3	Buck Regulator Positive Output Step-Down DC-DC Controller IC 16-HTSSOP		LM5088MH-2/NOPB	Texas Instruments	16-HTSSOP_EP	Fitted	MSPLDB2022.DbLib	ICs-SMD	IC-301
68	V1	1	390 V 2.5 kA Varistor 1 Circuit Through Hole Disc 10mm		V250LA10P	Littelfuse Inc.	TH	Fitted	MSPLDB2022.DbLib	VARISTOR-TH	VAR-002
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	Notes										