

TITLE: Bill of Materials  
BOM NO: 05-059470-01-d.csv  
DATE: 05/04/2022  
DESIGN: 02\_059470d\_top  
TEMPLATE: Z:\allegro\v172\_site\cdssetup\template.bom  
CALLOUT:  
MODEL NAME: DC3159A-A

ITEM#	Qty	WW_PN	DESCRIPTION	VALUE	JEDEC_TYPE	TOL	VOLTAGE	WATTAGE	LOCATION	MFG	MFG_PN	DNI
1	1	08_05947C	PCB	?	?	?	?	?	?	Analog Devices Supplied	08_059470d	?
2	6	E033913	CAP CER 0.01uF 25V 10% X7R 0402	0.01uF	C0402		10 25V	N/A	C1,C4,C6,C7,C10,C11	SAMSUNG	CL05B103KA5NNNC	?
3	1	E033755	CAP CER 1000pF 2000V 10% X7R 1808	1000pF	C1808H85		10 2000V	N/A	C12	JOHANSON DIELECTRICS	202R29W102KV4E	?
5	8	E023069	CAP CER 1uF 100V 10% X7R 1206	1uF	C1206H71		10 100V	N/A	C18,C20,C34,C36,C50,C52,C66,C68	TAIYO YUDEN	HMK316B7105KL-T	?
6	10	E024444	CAP CER 1uF 10V 10% X7R 0603	1uF	C0603		10 10V	N/A	C8,C9,C19,C21,C35,C37,C51,C53,C67,C69	KEMET	C0603C105K8RACTU	?
7	3	E018707	CAP CER 0.1uF 16V 10% X7R 0402	0.1uF	C0402		10 16V	N/A	C2,C3,C5 CP1,CP2,CP3,CP4,CP5,CP6,CP7,CP8,CP9,CP10,CP11,CP12,CP13,CP14,CP15,CP16,CP17,CP18,CP19,CP20,CP21,CP22,CP23,CP24,CP25,CP26,CP27,CP28,CP29,CP30,CP31,CP32,CP33,CP34,CP35,CP36,CP37,CP38,CP39,CP40,CP41,CP42,CP43,CP44,CP45,CP46,CP47,CP48	KEMET	C0402C104K4RACTU	?
8	48	E033337	CAP CER 0.1uF 100V 10% X7R 0603	0.1uF	C0603		10 100V	N/A	CP48	SAMSUNG	CL10B104KC8NNNC	?
9	4	E033391	DIO TVS UNIDIR	PTV5S8V51UR,115	SOD123F	N/A	58V	400W	D1,D8,D15,D22 DP1,DP2,DP3,DP4,DP5,DP6,DP7,DP8,DP9,D P10,DP11,DP12,DP13,DP14,DP15,DP16,DP17,DP18,DP19,DP20,DP21,DP22,DP23,DP24,DP25,DP26,DP27,DP28,DP29,DP30,DP31,DP32,DP33,DP34,DP35,DP36,DP37,DP38,D P39,DP40,DP41,DP42,DP43,DP44,DP45,DP46,DP47,DP48	NEXPERIA	PTV5S8V51UR,115	?
10	48	E040685	DIO HIGH EFFICIENT RECTIFIER, 1A	HS18FLRVG	SOD123FLH53	N/A	100V	N/A	F1,F2,F3,F4,F5,F6,F7,F8,F9,F10,F11,F12,F13,F14,F15,F16,F17,F18,F19,F20,F21,F22,F23,F24,F25,F26,F27,F28,F29,F30,F31,F32,F33,F34,F35,F36,F37,F38,F39,F40,F41,F42,F43,F44,F45,F46,F47,F48	TAIWAN SEMICONDUCTOR	HS18FLRVG	?
11	48	E050670	FUSE 1.5A 35V AC 65V DC CONN-PCB 16POS MALE HDR UNSHROUDED DUAL ROW, 2MM PITCH,	1.5A	F0603H12	N/A	35VAC/65VDC	N/A		BOURNS	SF-0603H150F-2	?
12	2	E039442	2.62MM SOLDER TAIL SOLDER TAIL, 2MM CONN-PCB 12POS MALE HDR UNSHROUDED DUAL ROW, 2MM PITCH,	TMMH-108-01-L-D-RA	CNTHMHDRRA2>	N/A	N/A	N/A	P1,P6	SAMTEC INC.	TMMH-108-01-L-D-RA	?
13	1	E039484	2.62MM SOLDER TAIL SOLDER TAIL, 2MM CONN-PCB 12POS MALE HDR	TMMH-106-01-L-D-RA	CNTHMHDRRA2>	N/A	N/A	N/A	P2	SAMTEC INC.	TMMH-106-01-L-D-RA	?
14	3	E039443	UNSHROUDED DUAL ROW, 2MM PITCH,	TMMH-112-01-L-D-RA	CNTHMHDRRA2>	N/A	N/A	N/A	P3,P4,P5 Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10,Q11,Q12,Q13,Q14,Q15,Q16,Q17,Q18,Q19,Q20,Q21,Q22,Q23,Q24,Q25,Q26,Q27,Q28,Q29,Q30,Q31,Q32,Q33,Q34,Q35,Q36,Q37,Q38,Q39,Q40,Q41,Q42,Q43,Q44,Q45,Q46,Q47,Q	SAMTEC INC.	TMMH-112-01-L-D-RA	?
15	48	E033197	TRAN N-CHANNEL MOSFET FOR POE APPLICATION, 30A RES SMD 100K Ohm 1% 1/5W 0402 AEC-	PSMN040-100MSEX	SOT1210	N/A	100V	91W	48	NEXPERIA	PSMN040-100MSEX	?
16	4	E025038	Q200 ANTI-SURGE	100K	R0402		1 50V	1/5W	R1,R2,R32,R33	PANASONIC	ERJ-PA2F1003X	?
17	2	E032282	RES SMD 10K Ohm 1% 1/5W 0402 AEC-	10K	R0402		1 N/A	1/5W	R10,R17	VISHAY	CRCW040210K0FKEDHP	?
19	8	E003750	RES SMD 49.9 Ohm 1% 1/10W 0402 AEC-		49.9 R0402		1 N/A	1/10W	R4,R7,R11,R15,R19,R23,R28,R31	PANASONIC	ERJ-2RK49R9X	?
21	17	E030156	AEC-Q200		0 R0402	JUMPER	N/A	1/16W	R73,R92,R96,R99,R117,R122,R123	YAGEO	AC0402JR-070RL	?
22	8	E040116	RES SMD 10K Ohm 1% 1/2W 1206	10K	R1206		1 N/A	1/2W	R43,R45,R68,R70,R93,R95,R118,R120  RS1,RS2,RS3,RS4,RS5,RS6,RS7,RS8,RS9,RS10,RS11,RS12,RS13,RS14,RS15,RS16,RS17,RS18,RS19,RS20,RS21,RS22,RS23,RS24,RS25,RS26,RS27,RS28,RS29,RS30,RS31,RS32,RS33,RS34,RS35,RS36,RS37,RS38,RS39,RS40,RS41,RS42,RS43,RS44,RS45,RS46,RS47,RS48	TE CONNECTIVITY	CRGP1206F10K	?
24	48	E031525	RES SMD 0.1 Ohm 1% 1/3W 0603 AEC-Q200		0.1 R0603		1 N/A	1/3W	1,RS42,RS43,RS44,RS45,RS46,RS47,RS48	PANASONIC	ERJ-3BWFR100V	?
25	1	E039244	XFMR 10/100 BASE-T SMD	7490100143	TSML510W280H;	N/A	N/A	N/A	T1	WURTH ELEKTRONIK	7490100143	?
26	4	E057157	IC-ADI 48-PORT IEEE 802.3BT POE PSE	LTC9102AUKJ#PBF	QFN64_11X7_PA	N/A	N/A	?	U1,U2,U3,U4	ANALOG DEVICES	LTC9102AUKJ#PBF	?
27	1	E039240	IC-ADI 48-PORT IEEE 802.3BT POE PSE	LTC9101AUF-1#PBF	QFN24_4X4_PAD	N/A	N/A	?	U5	ANALOG DEVICES	LTC9101AUF-1#PBF	?

The following components are part of the PCB or are NOT to be installed

ITEM#	Qty	WW_PN	DESCRIPTION	VALUE	JEDEC_TYPE	TOL	VOLTAGE	WATTAGE	LOCATION	MFG	MFG_PN	DNI
4	2	E047702	CAP CER 10uF 10V 10% X7T 0603	10uF	C0603		10 10V	N/A	C13,C14 R16,R18,R20,R34,R46,R48,RS1,RS3,R72,R74,R76,R78,R97,R98,R101,R103,R121,R124,R126,R128	MURATA	GRM188D71A106KA73D	DNI
18	20	E004049	DO NOT INSTALL (TBD_R0402), PLEASE USE SYM_3 AND/OR SYM_4 RES SMD 0 Ohm JUMPER 1/16W 0402	TBD0402	R0402		TBD0402	N/A	TBD0402	TBD0402	TBD0402	DNI
20	9	E030156	AEC-Q200 RES SMD 10MEG Ohm 1% 1/5W 0402 AEC	10MEG	0 R0402	JUMPER	N/A	1/16W	R24,R37,R44,R62,R69,R87,R94,R112,R119	YAGEO	AC0402JR-070RL	DNI
23	4	E025036	Q200 HIGH POWER ANTI-SURGE	10MEG	R0402		1 50V	1/5W	R8,R9,R25,R26	VISHAY	RCS040210M0FKED	DNI