

daliBOT v1

Date: 20231119
 Designer: V.Sieben

Designator	Vendor	Vendor Part #	Quantity	Manufacturer	MFG Part Number	Description
C1, C6, C7	Digi-Key	1276-3392-1-ND	3	Samsung Electro-Mechanics	CL32B226KAJNNNE	CAP CER 22UF 25V X7R 1210
C2, C3, C8, C9, C10, C13, C14, C15, C16, C17, C19, C20, C21, C23, C25, C26, C27, C28, C31, C36, C37, C38, C39, C41, C42, C43, C44, C49, C51	Digi-Key	399-C0603C104K5RAC7082CT-ND	29	KEMET	C0603C104K5RAC7082	CAP CER 0.1UF 50V X7R 0603
C4	Digi-Key	399-14290-1-ND	1	KEMET	C0603C223M5RAC7867	CAP CER 0.022UF 50V X7R 0603
C5	Digi-Key	13-CC0603KRX7R9BB301CT-ND	1	YAGEO	CC0603KRX7R9BB301	CAP CER 300PF 50V X7R 0603
C11, C12, C30, C34	Digi-Key	399-C0603C300J5GAC7867CT-ND	4	KEMET	C0603C300J5GAC7867	CAP CER 30PF 50V COG/NP0 0603
C18, C47, C48, C50	Digi-Key	1276-1860-1-ND	4	Samsung Electro-Mechanics	CL10A105KB8NNNC	CAP CER 1UF 50V X5R 0603
C22	Digi-Key	490-GRM188Z71E225KE43DCT-ND	1	Murata Electronics	GRM188Z71E225KE43D	CAP CER 2.2UF 25V X7R 0603
C24, C29, C32, C35, C40	Digi-Key	490-GRM188Z71C475KE21JCT-ND	5	Murata Electronics	GRM188Z71C475KE21J	CAP CER 4.7UF 16V X7R 0603
C33	Digi-Key	399-C0603C560G5GAC7867CT-ND	1	KEMET	C0603C560G5GAC7867	CAP CER 56PF 50V COG/NP0 0603
C45, C46	Digi-Key	399-CBR06C409B5GACCT-ND	2	KEMET	CBR06C409B5GAC	CAP CER 4PF 50V COG/NP0 0603
CR1, CR2	Digi-Key	F2594CT-ND	2	Littelfuse Inc.	PGB1010603MR	TVS DIODE 24VWM 150VC 0603
D1, D2, D3	Digi-Key	475-2816-1-ND	3	OSRAM	LB Q39G-L200-35-1	LED BLUE DIFFUSED 0603 SMD
D4	Digi-Key	BZT52C6V2-FDICT-ND	1	Diodes Incorporated	BZT52C6V2-7-F	DIODE ZENER 6.2V 500MW SOD123
D5	Digi-Key	1N4148WSFSCT-ND	1	onsemi	1N4148WS	DIODE GEN PURP 75V 150MA SOD323F
D6, D7	Digi-Key	475-LTQ39G-Q100-25-1CT-ND	2	ams-OSRAM	LT Q39G-Q100-25-1	LED GREEN DIFFUSED 0603 SMD
D8	Digi-Key	475-LYQ396-P1Q2-36CT-ND	1	ams-OSRAM	LY Q396-P1Q2-36	LED YELLOW DIFFUSED SMD
D9	Digi-Key	475-LOQ976-PS-25-0-20-R18CT-ND	1	ams-OSRAM	LO Q976-PS-25-0-20-R18	LED ORANGE DIFFUSED 0603 SMD
D10	Digi-Key	475-LSQ976-NR-1CT-ND	1	ams-OSRAM	LS Q976-NR-1	LED RED DIFFUSED 0603 SMD
F1	Digi-Key	18-0407005.WRACT-ND	1	Littelfuse Inc.	0407005.WRA	FUSE BRD MNT 5A 32VAC 32VDC 1206
FB1, FB2, FB3	Digi-Key	240-MI0603J102R-10CT-ND	3	Laird-Signal Integrity Products	MI0603J102R-10	FERRITE BEAD 1 KOHM 0603 1LN
J1, J2	Digi-Key	455-1723-ND	2	JST Sales America Inc.	S6B-PH-K-S(LF)(SN)	CONN HEADER R/A 6POS 2MM
J3	Digi-Key	455-1707-ND	1	JST Sales America Inc.	B5B-PH-K-S(LF)(SN)	CONN HEADER VERT 5POS 2MM
J4	DNP	DNP	0	DNP	DNP	DNP
J5	Digi-Key	WM1399CT-ND	1	Molex	1050170001	CONN RCPT USB2.0 MICRO B SMD R/A
J6	Digi-Key	54202-S0803LF-ND	1	Amphenol ICC (FCI)	54202-S0803LF	CONN HEADER SMD 6POS 2.54MM
J7	Digi-Key	455-1706-ND	1	JST Sales America Inc.	B4B-PH-K-S	CONN HEADER VERT 4POS 2MM
J8	DNP	DNP	0	DNP	DNP	DNP
J9	Digi-Key	839-54-00167-ND	1	Tensility International Corp	54-00167	CONN JACK R/A PCB 5.5X2.5MM
L1	Digi-Key	1589-MPL-AL6060-6R8CT-ND	1	Monolithic Power Systems Inc.	MPL-AL6060-6R8	FIXED IND 6.8UH 8.5A 16 MOHM SMD
Q1, Q2, Q3, Q4, Q9, Q10, Q11, Q12	Digi-Key	2N7002K-TPMSCT-ND	8	Micro Commercial Co	2N7002K-TP	MOSFET N-CH 60V 340MA SOT23
Q5, Q6, Q7, Q8	Digi-Key	785-1022-1-ND - Cut Tape	4	Alpha & Omega Semiconductor Inc.	AO4407A	MOSFET P-CH 30V 12A 8SOIC

R1, R43, R44	Digi-Key	P90.9KHCT-ND	3	Panasonic Electronic Components	ERJ-3EKF9092V	RES SMD 90.9 OHM 1% 1/10W 0603
R2, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R16, R18, R22, R27 , R40, R41, R46, R47, R49, R50, R55, R63, R64, R65, R66, R70, R71, R72, R73	Digi-Key	P10.0KHCT-ND	30	Panasonic Electronic Components	ERJ-3EKF1002V	RES SMD 10K OHM 1% 1/10W 0603
R3	Digi-Key	P191KHCT-ND	1	Panasonic Electronic Components	ERJ-3EKF1913V	RES SMD 191K OHM 1% 1/10W 0603
R4	Digi-Key	311-49.9KHRC-ND	1	YAGEO	RC0603FR-0749K9L	RES 49.9K OHM 1% 1/10W 0603
R15	Digi-Key	P20.0KHCT-ND	1	Panasonic Electronic Components	ERJ-3EKF2002V	RES SMD 20K OHM 1% 1/10W 0603
R17	Digi-Key	P30.0KHCT-ND	1	Panasonic Electronic Components	ERJ-3EKF3002V	RES SMD 30K OHM 1% 1/10W 0603
R19, R20, R21, R24, R29, R30, R31, R32, R33	Digi-Key	P1.00KHCT-ND	9	Panasonic Electronic Components	ERJ-3EKF1001V	RES SMD 1K OHM 1% 1/10W 0603
R23, R25, R42, R45, R74	Digi-Key	P5.10KHCT-ND	5	Panasonic Electronic Components	ERJ-3EKF5101V	RES SMD 5.1K OHM 1% 1/10W 0603
R26, R62	Digi-Key	RMCF0603FT1M00CT-ND	2	Stackpole Electronics Inc	RMCF0603FT1M00	RES 1M OHM 1% 1/10W 0603
R28 , R51, R68, R69	Digi-Key	P100KHCT-ND	4	Panasonic Electronic Components	ERJ-3EKF1003V	RES SMD 100K OHM 1% 1/10W 0603
R34	Digi-Key	P51.00BYCT-ND	1	Panasonic Electronic Components	ERJ-PA3F51R0V	RES SMD 51 OHM 1% 1/3W 0603
R35	Digi-Key	YAG2151CT-ND	1	YAGEO	PE2512FKE070R01L	RES 0.01 OHM 1% 1W 2512
R36	Digi-Key	P6.80KHCT-ND	1	Panasonic Electronic Components	ERJ-3EKF6801V	RES SMD 6.8K OHM 1% 1/10W 0603
R37, R38, R39	Digi-Key	P620KHCT-ND	3	Panasonic Electronic Components	ERJ-3EKF6200V	RES SMD 620 OHM 1% 1/10W 0603
R48, R54, R61, R67	Digi-Key	311-0.0HRCT-ND	4	YAGEO	RC0603FR-070RL	RES 0 OHM JUMPER 1/10W 0603
R52	Digi-Key	P150KHCT-ND	1	Panasonic Electronic Components	ERJ-3EKF1503V	RES SMD 150K OHM 1% 1/10W 0603
R53	Digi-Key	P2.00KHCT-ND	1	Panasonic Electronic Components	ERJ-3EKF2001V	RES SMD 2K OHM 1% 1/10W 0603
R56	DNP	P47.0KHCT-ND	0	Panasonic Electronic Components	ERJ-3EKF4702V	RES SMD 47K OHM 1% 1/10W 0603
R57	DNP	311-0.0HRCT-ND	0	YAGEO	RC0603FR-070RL	RES 0 OHM JUMPER 1/10W 0603
R58, R59	Digi-Key	P10.0HCT-ND	2	Panasonic Electronic Components	ERJ-3EKF10R0V	RES SMD 10 OHM 1% 1/10W 0603
R60	Digi-Key	P12.0KHCT-ND	1	Panasonic Electronic Components	ERJ-3EKF1202V	RES SMD 12K OHM 1% 1/10W 0603
R75, R76	Digi-Key	YAG4560CT-ND	2	YAGEO	RT0603BRD07470KL	RES SMD 470K OHM 0.1% 1/10W 0603
SW1	Digi-Key	EG2362-ND	1	E-Switch	100SP1T2B4M6QE	SWITCH TOGGLE SPDT 5A 120V
SW2	Digi-Key	CKN9112CT-ND	1	C&K	PTS645SM43SMTR92 LFS	SWITCH TACTILE SPST-NO 0.05A 12V
U1	MP	MP2338	1	Monolithic Power Systems Inc.	MP2338GTL-Z	High-Efficiency, 28V, 3A, 450kHz, Synchronous Step-Down Converter In SOT583 Package
U2	Digi-Key	ATMEGA328P-AU-ND	1	Microchip Technology	ATMEGA328P-AU	IC MCU 8BIT 32KB FLASH 32TQFP
U3	Digi-Key	TB6612FNGC8ELCT-ND	1	Toshiba Semiconductor and Storage	TB6612FNG,C,8,EL	IC MOTOR DRIVER 2.7V-5.5V 24SSOP
U4	Digi-Key	828-1058-1-ND	1	Bosch Sensortec	BNO055	IMU ACCEL/GYRO/MAG I2C 28LGA
U5	Digi-Key	1662-5-8254ABLFT-TB-UCT-ND	1	ABILIC Inc.	S-8254ABLFT-TB-U	IC BATT PROT LI-ION 3-4C 16TSSOP
U6	Digi-Key	296-18454-1-ND	1	Texas Instruments	LM339APWR	IC COMPARATOR 4 DIFF 14TSSOP
U7	Digi-Key	768-1277-ND	1	FTDI, Future Technology Devices International Ltd	FT4232H-56Q	IC USB TO UART/MPSSIE QUAD 56VQFN
U8	Digi-Key	93LC56BT-I/OTCT-ND	1	Microchip Technology	93LC56BT-I/OT	IC EEPROM 2KBIT MIC WIRE SOT23-6
U9	Digi-Key	AP2112K-3.3TRG1DICT-ND	1	Diodes Incorporated	AP2112K-3.3TRG1	IC REG LINEAR 3.3V 600mA SOT25
U10, U11	Digi-Key	296-45297-1-ND	2	Texas Instruments	TPS22810DBVR or DBVT	IC PWR SWITCH N-CHAN 1:1 SOT23-6
U12	Digi-Key	296-TLV1851QDBVRQ1CT-ND	1	Texas Instruments	TLV1851QDBVRQ1	SINGLE NANOPOWER HIGH-VOLTAGE CO
Y1	Digi-Key	535-12830-1-ND	1	Abraccon LLC	ABLS7M2-16.000MHZ-D2Y-T	CRYSTAL 16.0000MHZ 18PF SMD
Y2	Digi-Key	535-14963-1-ND	1	Abraccon LLC	ABM8-12.000MHZ-20-B1U-T	CRYSTAL 12.0000MHZ 20PF SMD
Y3	Digi-Key	535-13354-1-ND	1	Abraccon LLC	ABS07AIG-32.768KHZ-7-1-T	CRYSTAL 32.7680KHZ 7PF SMD