

Component List

PCB Design Feeder Board.PcbDoc

Project Dual Feeder Controller.PrjPCB

Variant None

Report Date 1/20/2017

Description	Device Package	Quantity	Designator	Layer	Manufacturer	Part Number	Supplier 1	Supplier Part	Nun Price
CAP CER 0.1UF 50V X7R 0603	0603 (1608 Metric)	15	C1, C2, C3, C4, C5, C6, C8, C12, C2	Top	Samsung Electro-Mechan	CL10B104JB8NNNC	Digi-Key	1276-1033-2-ND	0.0132
CAP CER 10000PF 50V X7R 0603	0603 (1608 Metric)	4	C7, C9, C19, C33	Top	Samsung Electro-Mechan	CL10B103KB8NCNC	Digi-Key	1276-1921-2-ND	0.0032
CAP CER 18PF 50V NP0 0603	0603 (1608 Metric)	2	C10, C11	Top	Kemet	C0603C180J5GACTU	Digi-Key	399-1052-2-ND	0.0064
CAP ALUM 100UF 20% 50V SMD	Radial, Can - SMD	4	C13, C14, C16, C17	Top	Nichicon	UWT1H101MNL1GS	Digi-Key	493-2226-2-ND	0.2178
CAP CER 0.22UF 50V X7R 0805	0805 (2012 Metric)	2	C15, C18	Top	Samsung Electro-Mechan	CL21B224KBFSFNE	Digi-Key	1276-2948-2-ND	0.0195
CAP CER 1UF 50V X5R 0603	0603 (1608 Metric)	4	C20, C24, C31, C32	Top	Samsung Electro-Mechan	CL10A105KB8NNNC	Digi-Key	1276-1860-2-ND	0.0236
CAP CER 330PF 50V NP0 0603	0603 (1608 Metric)	1	C22	Top	Kemet	C0603C331J5GACTU	Digi-Key	399-1068-2-ND	0.0085
CAP CER 4.7UF 6.3V X5R 0603	0603 (1608 Metric)	1	C23	Top	Samsung Electro-Mechan	CL10A475KQ8NNNC	Digi-Key	1276-1045-2-ND	0.0144
DIODE SCHOTTKY 20V 500MA SOD1	SOD-123	1	D3	Top	Diodes Incorporated	B0520LW-7-F	Digi-Key	B0520LW-FD1TR-ND	0.0552
DIODE SCHOTTKY 60V 1A SOD123F	SOD-123F	3	D4, D5, D6	Top	NXP USA Inc.	PMEG6010CEH,115	Digi-Key	568-4104-1-ND	0.38
TVS DIODE 36VWM 58.1VC DO214AA	DO-214AC, SMA	4	D7, D8, D9, D10	Top	Bourns Inc.	SMAJ36CA	Digi-Key	SMAJ36CABTR-ND	0.0992
DIODE SCHOTTKY 30V 200MA SOD5	SC-79, SOD-523F	1	D11	Top	Fairchild Semiconductor	RB521S30	Digi-Key	RB521S30TR-ND	0.0455
FERRITE CHIP 100 OHM 0603	0603 (1608 Metric)	2	FB1, FB2	Top	Taiyo Yuden	BKP1608HS101-T	Digi-Key	587-1922-2-ND	0.0247
FERRITE CHIP 40 OHM 0805	0805 (2012 Metric)	1	FB3	Top	TDK Corporation	MMZ2012S400AT000	Digi-Key	445-2201-2-ND	0.0344
IC TXRX RS422/485 15MBPS 8SO	8-SOIC (0.154", 3.90mm)	1	IC1	Top	STMicroelectronics	ST3485ECDR	Digi-Key	497-6840-2-ND	0.6076
MOSFET P-CH 60V 3A SOT223	TO-261-4, TO-261AA	1	IC2	Top	Diodes Incorporated	ZXMP6A17GTA	Digi-Key	ZXMP6A17GTR-ND	0.304
MOSFET N-CH 60V 1.6A SOT23	TO-236-3, SC-59, SOT	4	IC3, IC4, IC12, IC13	Top	Diodes Incorporated	DMN6140L-13	Digi-Key	DMN6140L-13DICT	0.51
MOSFET P-CH 20V 4.2A SOT23	TO-236-3, SC-59, SOT	1	IC5	Top	Diodes Incorporated	DMG2305UX-13	Digi-Key	DMG2305UX-13DICT	0.0477
IC MCU ARM 64KB FLASH 48LQFP	48-LQFP	1	IC6	Top	NXP Semiconductors	LPC11U35FB048/401,	Digi-Key	568-9584-ND	4.32
TVS DIODE 5.5VWM SOT143B	TO-253-4, TO-253AA	1	IC7	Top	NXP Semiconductors	PRTR5V0U2X,215	Digi-Key	568-4140-2-ND	0.1794
IC MPU RESET 2.93V 210MS SOT143	TO-253-4, TO-253AA	1	IC8	Top	STMicroelectronics	STM6315SDW13F	Digi-Key	497-4975-2-ND	0.2185
IC MOTOR DRIVER PAR 16TSSOP	16-TSSOP (0.173", 4.4mm)	2	IC9, IC10	Top	Allegro MicroSystems, LL	A4954ELPTR-T	Digi-Key	620-1384-1-ND	2.84
IC REG BUCK ADJ 0.35A 8VSSOP	8-TSSOP, 8-MSP0P (0.1	1	IC11	Top	Texas Instruments	LM5008MM/NOPB	Digi-Key	LM5008MM/NOPB	2.83
IC REG LDO 3.3V 0.15A SOT23-5	SC-74A, SOT-753	1	IC14	Top	Texas Instruments	LP3985IM5-3.3/NOPB	Digi-Key	LP3985IM5-3.3/NOPB	0.2855
CONN HEADER 4POS .100 R/A GOLD		1	J1	Top	Molex, LLC	0705530003	Digi-Key	WM4902-ND	1.58
CONN HEADER PH TOP 4POS 2MM		7	J2, J3, J4, J6, J7, J8, J9	Top	JST Sales America Inc.	B4B-PH-K-S(LF)(SN)	Digi-Key	455-1706-ND	0.24
CONN USB MICRO B RECPT SMT R/A		1	J5	Top	FCI	10118193-0001LF	Digi-Key	609-4616-2-ND	0.2823
CONN HEADER PH TOP 2POS 2MM		6	J10, J11, J13, J14, J15, J16	Top	JST Sales America Inc.	B2B-PH-K-S(LF)(SN)	Digi-Key	455-1704-ND	0.17
FIXED IND 330UH 370MA 1.4 OHM	Nonstandard	1	L1	Top	Bourns Inc.	SRR6028-331Y	Digi-Key	SRR6028-331YCT-ND	0.68
RES SMD 10K OHM 5% 1/10W 0603	0603 (1608 Metric)	6	R1, R2, R3, R4, R16, R46	Top	Panasonic Electronic Com	ERJ-3GEYJ103V	Digi-Key	P10KGTR-ND	0.002
RES SMD 56 OHM 5% 1/10W 0603	0603 (1608 Metric)	2	R5, R6	Top	Panasonic Electronic Com	ERJ-3GEYJ560V	Digi-Key	P56GTR-ND	0.002
RES SMD 2K OHM 5% 1/10W 0603	0603 (1608 Metric)	2	R7, R11	Top	Panasonic Electronic Com	ERJ-3GEYJ202V	Digi-Key	P2.0KGTR-ND	0.002
RES SMD 24K OHM 5% 1/10W 0603	0603 (1608 Metric)	1	R9	Top	Panasonic Electronic Com	ERJ-3GEYJ243V	Digi-Key	P24KGTR-ND	0.002
RES SMD 2K OHM 1% 1/10W 0402	0402 (1005 Metric)	1	R12	Top	Panasonic Electronic Com	ERJ-2RKf2001X	Digi-Key	P2.00KLTR-ND	0.0043
RES SMD 1.5K OHM 5% 1/10W 0603	0603 (1608 Metric)	1	R13	Top	Panasonic Electronic Com	ERJ-3GEYJ152V	Digi-Key	P1.5KGTR-ND	0.002
RES SMD 33 OHM 1% 1/10W 0603	0603 (1608 Metric)	12	R14, R15, R29, R30, R32, R33, R39	Top	Panasonic Electronic Com	ERJ-3EKf33R0V	Digi-Key	P33.0HTR-ND	0.0038
RES SMD 120 OHM 1% 1/10W 0603	0603 (1608 Metric)	4	R17, R18, R21, R22	Top	Panasonic Electronic Com	ERJ-3EKf1200V	Digi-Key	P120HTR-ND	0.0038
RES SMD 820 OHM 5% 1/10W 0603	0603 (1608 Metric)	4	R19, R20, R23, R24	Top	Panasonic Electronic Com	ERJ-3GEYJ821V	Digi-Key	P820GTR-ND	0.002
TRIMMER 20K OHM 0.15W SMD		4	R25, R27, R35, R37	Top	Bourns Inc.	3302W-3-203E	Digi-Key	3302W-203ECT-ND	0.97
RES SMD 750 OHM 1% 1/10W 0603	0603 (1608 Metric)	4	R26, R28, R36, R38	Top	Panasonic Electronic Com	ERJ-3EKf7500V	Digi-Key	P750HTR-ND	0.0038
RES SMD 0.25 OHM 1% 1/2W 1206	1206 (3216 Metric)	4	R31, R34, R41, R44	Top	Stackpole Electronics Inc	CSR1206FKR250	Digi-Key	CSR1206FKR250TR	0.072
RES SMD 105K OHM 1% 1/10W 0603	0603 (1608 Metric)	1	R45	Top	Panasonic Electronic Com	ERJ-3EKf1053V	Digi-Key	P105KHTR-ND	0.0038
RES SMD 1.5 OHM 5% 1/10W 0603	0603 (1608 Metric)	1	R47	Top	Panasonic Electronic Com	ERJ-3GEYJ1R5V	Digi-Key	P1.5GTR-ND	0.002
RES SMD 63.4K OHM 1% 1/10W 0603	0603 (1608 Metric)	1	R48	Top	Panasonic Electronic Com	ERJ-3EKf6342V	Digi-Key	P63.4KHTR-ND	0.0038
RES SMD 6.19K OHM 1% 1/10W 0603	0603 (1608 Metric)	1	R49	Top	Panasonic Electronic Com	ERJ-3EKf6191V	Digi-Key	P6.19KHTR-ND	0.0038
SWITCH TACTILE SPST-NO 0.05A 24		2	S1, S2	Top	TE Connectivity Alcoswit	FSMSMTR	Digi-Key	450-1758-2-ND	0.175
SWITCH SLIDE DIP 4POS SPST 25MA		1	SW1	Top	CTS Electrocomponents	218-4LPSTJ	Digi-Key	CT3109-ND	1.3
CRYSTAL 12.0000MHZ 10PF SMD	4-SMD, No Lead (DFN)	1	Y1	Top	Abracon LLC	ABM8G-12.000MHZ-4Y-T3	Digi-Key	535-10901-2-ND	0.24