



















	Quantity	Component Cost	Component Link Descriptions	Component Link URL	DigikeyPN	Mouser PN
		3.84000	CONN HEADER FMAL 40PS.1" DL GOLD	http://www.digikey. com/product- detail/en/PPPC202L FBN-RC/57123- ND/810259	67172 NO	
8881_P8	1	2.84000	CONN HEADER FMAL 24PS.1" DL GOLD	ND/81039 http://www.digikey. com/product- detail/en/PPPC123L FBN-RC/57115- ND/81031	\$7123-ND	
8881,99	1	1.81000		FBN-RC/S7115- ND/810251 http://www.digikey. com/product- detail/en/PPPC162L FBN-RC/S7119-	\$7115-ND	
8882_P8, 8882_P9	2	2.27000	CONN HEADER FMAL 32PS 1" DL GOLD	http://www.digikey.	\$7119-ND	
C1, C3, C4, C9, C10, C13, C14, C15, C16, C17	20	0.30000	CAP CER 10UF 16V 20% XSR 0603	detail/en/GRM188R 61C106MA73D/490- 7201-1-ND/3900482	490-7201-1-ND	
α	1	0.36000	CAP CER 4.7UF 25V 30% XSR 0603	com/product- detail/en/CL10A475 KABNQNC/1276- 1900-1-ND/3889986	1276-1900-1-ND	
			CAP CER 1UF 25V 10% XSR 0603			
G	1	0.20000		http://www.digikey. com/product- detailen/GRM188R 61E105KA12D/490- 3807-1-ND/965939 http://www.digikey. com/product- detail/en/GRM188R 71E104KADID/490- 153A.1-ANT-SKT985	490-3897-1-ND	
C6, C7, O8, C18	4	0.20000	CAP CER 0.1UF 25V 10% X7R 0603	71E104KA01D/490- 1524-1-ND/587865 http://www.digikey. com/product-	490-1524-1-ND	
C11	1	0.89000	CAP CER 10UF 25V 20% XSR 0603	1524-1-ND/S87865 http://www.digikey. com/product- detail/en/C1608XSR 18106M08AC/445- 9015-1-ND/3648665 http://www.digikey. com/product-	445-9015-1-ND	
11, 12, 13	3	4.78000	CONN D-TYPE RCPT 50POS R/A SLDR	http://www.digikey. com/product- detail/en/5787082- 5/A31812- ND/907161 http://www.digikey.	A31812-ND	
		241000	CONN TEST PROBE GOLD RED PCB	http://www.digikey. com/product- detail/en/3-582118- 2/3-582118-2- ND/292605	3-582118-2-ND	
-	1	2.01000		com/product- detail/en/3-582118-	e-state-2ND	
15	1	3.04000	CONN TEST PROBE GOLD BLUE PCB	6/A113498- ND/292607 http://www.digikey. com/product- detail/en/3-582118- 0/3-582118-0- ND/299283	A113498-ND	
16, 17, 19	3	2.69000	CONN TEST PROBE GOLD BLACK PCB	detail/en/3-582118- 0/3-582118-0- ND/299283 http://www.digikey. com/product- detail/en/3-582118-	3-582118-0-ND	
и	1	3.04000	CONN TEST PROBE GOLD YEL PCB	4/A113497- ND/292606	A113497-ND	
L1	,	0.32000	FIXED IND 100UH 160MA 3.5 OHM	detail/en/82104C/81 1-2479-1- ND/3178550	811-2479-1-ND	
R1, R2, R3, R4, R5			RES SMD 4.7K OHM	http://www.digikey. com/product- detail/en/ERJ- PASF4701V/P4.7KEY CT-ND/5036195 http://www.digikey. com/product- detail.en/ERJ-		
R1, R2, R3, R4, R5, R6, R7, R8		0.29000	1% 1/4W 0603	CT-ND/5036295 http://www.digikey. com/product- detail/en/691.	P4.7KBYCT-ND	
R9, R10, R11, R12, R13, R14, R15, R16		0.29000	RES SMD 100K OHM 1% 1/4W 0603	PA3F1003V/P100KBY	P100KBYCT-ND	
R17, R21	2	0.20000	RES SMD 16K OHM 5% 1/4W 0603	http://www.digikey. com/product- detail/en/ERJ- PA31163V/P26KSZCT- ND/5036263 http://www.digikey.	P16KBZCT-ND	
			RES SMD 4.02K	http://www.digikey. com/product- detail/en/RNCP0603 FTD4802/RNCP0603 FTD4802CT- ND/2240463	RNCP0603FTD4KF13*	
R18, R22	2	0.10000	RES SMD 4.02K DHM 1% 1/EW 0603	http://www.digikey. com/product- detail/en/RC1608F1	RNCP0603FTD4K02C T-ND	
R19, R26, R33, R40	4	0.20000	RES SMD 1.5K OHM 1% 1/10W 0603	52CS/1276-4660-1- ND/3967632 http://www.digikey. com/product-	1276-4660-1-ND	
R20, R44, R45, R46	4	0.20000	RES SMD 3K OHM 3% 1/10W 0603	52CS/1276-4660-1- ND/3967632 http://www.digikey. com/product- detail/en/ERJ- 3EK73001V/P3-000H CT-ND/1746757 http://www.digikey. com/product- detail/en/ERJ-	P3.00KHCT-ND	
R23	1	0.10000	RES SMD 316K OHM 1% 1/10W 0603	com/product- detail/en/ERJ- 3EKF3163V/P316KH CT-ND/198329	P316KHCT-ND	
R24, R29, R31, R36, R38, R43			RES SMD 100K OHM 1% 1/10W 0603	CT-ND/198329 http://www.digikey. com/product- detail/en/ERJ- 3EXF1003V/P100KH		
K36, R43	6	0.10000	4% 1/10W 0603	detail/en/ERJ- 3EK/12039/P100KH CT-ND/198110 http://www.digikey. com/product- detail/en/CRCW050 315M0/PEAHR/S41-	P100KHCT-ND	
R25	1	0.41300	RES SMD 15M OHM 5% 1/10W 0603	ND/3231943 http://www.dinikev	541-15MAHCT-ND	
R27	1	0.20000	RES SMD 7.87M OHM 1% 1/10W 0603	com/product- detail/en/RC1608F7 874CS/1276-4983-1- ND/3967955 http://www.digikey.	1276-4983-1-ND	
B28		0 10000	RES SMD 249K OHM 1% 1/10W 0603	http://www.digikey. com/product- detal/en,ERJ- 3EXF2493V/P249KH CT-ND/198275 http://www.digikey.	P249KHCT-ND	
	,			CT-ND/198275 http://www.digikey. com/product- detail/en/ERJ- 3EXF8873V/P887KH CT-ND/198540		
R30	1	0.20000	RES SMD 887K OHM 2% 1/10W 0603	CT-ND/198540 http://www.digikey.com/product	P887KHCT-ND	
R32	1	0.63000	RES SMD 33M OHM 5% 1/10W 0603	http://www.digikey. com/product- detail/en/HMC0603JT3 33M0CHMC0603JT3 3M0CT-ND/4756233	HMC0603JT33M0CT- ND	
			RES SMD IOM O	http://www.digikey. com/product- detail/en/94MC0603JT3 536MO/HMC0603JT3 6MDCT-ND/3902867 http://www.digikey.	нмсокозитэсмост-	
R34	1	0.63000	RES SMD 30M OHM 5% 1/10W 0603	comproduct-	ND	
R35	1	0.10000	RES SMD 787K OHM 1% 1/10W 0603	SEKETRENI/ENCE SEKETRETS/V/PTRENCH CT-ND/198513 http://www.digikey. com/product- detail/en/ERJ- 350512743V/P1740H CT-MD-000500	P787KHCT-ND	
R37	1	0.20000	RES SMD 174K OHM 1% 1/10W 0603	com/product- detail/en/ERJ- 3EXF1743V/P174KH CT-ND/19E200 http://www.digikey. com/product- detail/en/ERJ-	P174KHCT-ND	
R39	,	0.20000	RES SMD 12M OHM 10% 1/10W 0603		P12MGCT-ND	
			RES SMD 9.53M OHM 1% 1/10W 0603	T-ND/282446 http://www.digikey. com/product- detail/en/RC1608F9 534C5/1276-4989-1- ND/3967961		
841	1	0.20000		com/product-	1276-4989-1-ND	
R42	1	0.20000	RES SMD 130K OHM 1% 1/10W 0603	SEKF1303V/P130KH CT-ND/198154 http://www.digikey.	P130KHCT-ND	
U1, U4	2	2.81000	CONN HEADER FMAL 46PS.1" DL GOLD	com/product- detail/en/PPPC232L FBN-RC/S7126- ND/810262 http://lwww.digikey. com/product- detail/en/PPPC232L FBN-RC/S7126-	\$7126-ND	
U2, U3	,	2.81000	CONN HEADER FMAL 46PS.1" DL GOLD	com/product- detail/en/PPPC232L FBN-RC/S7126- ND/810262	\$7126-ND	
	Ź		IC VOLT DETEC DUAL OVR/UND BSOIC	http://www.digikey. com/product- detail/en/fCL7665AC SA%2B,0CL7665ACS A%2B-ND/947726		
US, U6, U7	3	6.94000		.com/ProductDetail/	ICL7665ACSA+-ND	
us	,	8.12	Isolated DC/DC Converters 1W Single Output 12V to 5V 200mA	Solutions/NME1205 DC//qs+FRxQVHN% 2Fv%252bW3akMPri		580-NME1205DC
			IC REG LDO 3.3V	bwhA%3D%3D http://www.digikey. com/product- detail/en/LD1117S3 3CTR/497-1241-1-		
	1	0.54	0.8A SOT223	ND/586241 http://www.digikey.	497-1241-1-ND	
U9			IC ADC 128IT			
U9 U10	1	8.94	IC ADC 128IT SOKSPS BCH 16TSSOP	comproduct- detail/en/ADS7828E 52F250/296-12402- 1-ND/417222 http://www.digikey. com/product- detail/en/STP16NF0 6L/497-2765-5- symulation	296-12402-1-ND	