

PE29101 GS61008P EVK Revised: 01/18/18  
 DOC-84307 Revision: 03

9380 Carroll Park Drive  
 San Diego, CA, 92121

Bill Of Materials January 18,2018 9:48:00  
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Item	Quantity	Reference	Part	Manufacturer	Manufacturer Part Number	Distributor	Distributor Part Number	Part Description	Datasheet	Notes
1	4	CON1,CON2,CON3,CON4	575-8	Keystone Electronics	575-8	Digikey Electronics	36-575-8-ND	Connector,Banana Jack Connector Standard Banana Solder (Keystone)	W:\Keystone Electronics\M65p111.pdf 575-4_575-8.PDF	
2	1	CR1	CZRU52C6V2 (DNI)	Comchip Technology						DNI
3	4	C1,C18,C19,C28	1.0 µF	Murata Electronics North America	GRM188R71E105KA12D	Digikey Electronics	490-5307-6-ND	CAP, CER 0603, 1.0 µF, 25V, X7R, ±10% (Murata)	\\PSCVM-ORCAD-01\Technical_Datasheets\Murata\c02e.pdf	
4	1	C2	2.2 µF	Murata Electronics North America	GRM188R61E225KA12D	Digikey Electronics	490-10731-6-ND	CAP, CER 0603, 2.2µF 25V Ceramic Capacitor X5R, ±10% (Murata)		
5	1	C3	10 nF	Murata Electronics North America	GRM188R71H103KA01D	Digikey Electronics	490-1512-6-ND	CAP, CER 0603, 10 nF, 50 Volt, X7R, ±10% (Murata)	W:\Murata\GRM188R71H103KA01-01.pdf	
6	2	C7,C9	0.10 µF	Murata Electronics North America	GCM188L81H104KA57D	Digikey Electronics	490-6049-6-ND	CAP, CER 0603, 0.10µF 50V Ceramic Capacitor X8L, ±10% (Murata)	W:\Murata\c03e.pdf	
7	1	C8	DNI					CAP, DNI 0603		DNI
8	1	C10	(DNI)	Panasonic Electronic Components	EEE-FK1K470P	Digikey Electronics	PCE3831DKR-ND	CAP,47µF 80V Aluminum Capacitors Radial, Can - SMD (Panasonic)	W:\Panasonic\ABA0000C1181.pdf	
9	3	C11,C12,C13	10 µF	Murata Electronics North America	KRM55TR72A106MH01K	Digi-Key Electronics	490-5783-6-ND	CAP, CER 10µF 100V X7R Stacked, SMD J-Lead 0.240" L x 0.209" W (6.10mm x 5.30mm) (Murata)	W:\Murata\k70e.pdf	
10	3	C15,C16,C17	1 µF	Murata Electronics North America	GRM31CR72A105KA01L	Digikey	490-3909-6-ND	CAP, CER 1206, 1µF, 100 Volt, X7R, ±10% (Murata)	W:\Murata\GRM32ER72A105KA01.pdf	
11	3	C20,C21,C22	22 µF	Murata Electronics North America	GRM31CR61E226ME15L	Digi-Key Electronics	490-10755-6-ND	CAP, CER 1210, 22µF 25Volt, X5R, ±20% (Murata)	W:\Murata\c02e.pdf	
12	1	C23	(DNI)	Panasonic Electronic Components	EEE-FK1E221P	Digikey Electronics	PCE3800DKR-ND	CAP, 220µF 25V Aluminum Capacitors Radial, Can - SMD (Panasonic)	W:\Panasonic\ABA0000C1181.pdf	DNI
13	1	C24	DNI	Murata Electronics	GRM188R71H102KA01D	Digikey	490-1494-2-ND	CAP, CER 0603, 1.0 nF, 50 Volt, X7R, 10% (Murata)	\\PSCVM-ORCAD-01\Technical_Datasheets\Murata\c02e.pdf	
14	1	D1	BAS70LP-7	Diodes Incorporated	BAS70LP-7B	Digikey Electronics	BAS70LP-7BDITR-ND	Diode, Schottky, .8A, 70V, Barrier Rectifier, BAS70LP (Diodes Inc.)	\\PSCVM-ORCAD-01\Technical_Datasheets\Diodes\BAS70LP.pdf	
15	1	D2	BAS70LP-7B (DNI)	Diodes Incorporated						DNI
16	2	JP3,JP4	TSW-103-07-G-S	Samtec	TSW-103-07-G-S	Digikey Electronics	SAM1029-03-ND	Connector, Hdr, Straight, Unshrouded, 1x3, 0.100" Pitch TH (Samtec)	W:\Samtec\sw_th.pdf	
17	1	J2	A98235	On Shore Technology Inc.	A98235	Digikey Electronics	A98235-ND	CONN, Terminal Blocks - Wire to Board, Terminal Block, TH, Female, ED120/DS, 2 POS		
18	1	L1	3.3uH	Murata Electronics North America	DFEH12060D-3R3M=P3	Digi-Key Electronics	490-13106-2-ND	IND, SMD, Power Inductors, DFEH12060D, 3.3uH, 13A, 6.3 mOhm Max, 0.512" L x 0.496" W (13.00mm x 12.60mm)	W:\Murata\m_dfeh12060d.pdf	
19	1	PCB1	pcb	Peregrine Semiconductor	PRT-69917-01			PE29101, GS61008P EVK PCB		
20	2	PR1,PR4	PROBE							
21	2	Q1,Q2	GS61008P DS	GaN Systems	BSC0902NSI	Digikey Electronics	BSC0902NSITR-ND	Transistor, MOSFET, N-CH, 60V, 50A, TDSO8	W:\Infineon\BSC0902NSI-DS-v02_03-EN.pdf	
22	4	R1,R4,R17,R18	DNI					RES, CHIP 0603, DNI		DNI
23	1	R2	0	Panasonic Electronic Components	ERJ-3GEY0R00V	Digikey Electronics	P0.0GTR-ND	RES, CHIP 0603, 0 OHM Jumper, 1/10W, ERJ, (Panasonic)	W:\Panasonic\ERJ_G,R,E_Rev08.pdf	
24	1	R3	10K	Panasonic Electronic Components	ERJ-3EKF1002V	Digikey Electronics	P10.0KHTR-ND	RES, CHIP 0603, 10K OHM, ±1%, 1/10W, ±100ppm/°C, ERJ, (Panasonic)	\\PSCVM-ORCAD-01\Technical_Datasheets\Panasonic\ERJ_G,R,E_Rev08.pdf	
25	2	R5,R23	DNI					RES, CHIP 01005, DNI		
26	1	R6	150K	Panasonic Electronic Components	ERJ-2RKF1503X	Digi- Key Electronics	P150KLCT-ND	RES, SMD, Thick Film, 150K, ±1%, 0.1W, 1/10W, 0402 (1005 metric)		
27	1	R7	80.6K	Panasonic Electronic Components	ERJ-2RKF8062X	Digi-Key Electronics	P80.6KLCT-ND	RES, SMD, Thick Film, 80.6K, ±1%, 0.1W, 1/10W, 0402 (1005 metric)		
28	2	R8,R10	4.7 OHM	Panasonic Electronic Components	ERJ-1GEJ4R7C	Digikey Electronics	P4.7AGDKR-ND	RES, CHIP 0201, 4.7 OHM, 5%, 1/20W, 100PPM, ERJ, (Panasonic)	W:\Panasonic\ERJ_G,R,E_Rev08.pdf	
29	2	R9,R11	1	Panasonic Electronic Components		Digikey	P1.0AGDKR-ND			
30	2	R12,R13	DNI	Bourns Inc.	3296W-1-504LF	Digikey Electronics	3296W-504LF-ND	RES, POT 3/8" Square 500K OHM variable, 3296 (Bourns)	W:\Bourns\3296.pdf	DNI
31	1	R14	DNI	Panasonic Electronic Components	ERJ-3BQF2R0V	Digikey	P17377TR-ND	RES, CHIP 0603, 2 OHM, 1%, 1/4W, 200PPM, ERJ, (Panasonic)	http://industrial.panasonic.com/www-cgi/jvcr13pz.cgi?E+PZ+3+AOA0001+ERJ3GEY1750V+7+WW	DNI
32	1	R21, R22	DNI	Panasonic Electronic Components	ERJ-2RKF3002X	Digi-Key Electronics	P30.0KLCT-ND	RES, SMD, Thick Film, 30K, ±1%, 0.1W, 1/10W, 0402 (1005 metric)		DNI
33	1	R24	0	Panasonic Electronic Components	ERJ-2GE0R00X	Digi-Key Electronics	P0.0JTR-ND	RES, SMD, Thick Film, 0, Jumper, 0.1W, 1/10W, 0402 (1005 metric)	w:\Panasonic\AOA0000CE1-37422.pdf	
34	4	TPSMD1,TPSMD2,TPSMD3,TPSMD4	5017	Keystone Electronics	5017	Digikey Electronics	36-5017CT-ND	PC TEST POINT MINI SMD (Keystone)	W:\Keystone Electronics\5017.PDF	
35	1	T1	TPSMD.8X.8MM							
36	1	U1	6V REG	Texas Instruments	TPS70960DBVR	Digikey Electronics		IC,Linear Voltage Regulator IC Positive Fixed 1 Output 5V 150mA SOT-23-5	W:\Texas Instruments\p2985-n.pdf	
37	1	U3	NC7S08P5XCT	Fairchild Semiconductor	NC7S08P5XCT	Digikey Electronics	NC7S08P5XCT-ND	IC, AND Gate IC 1 Channel SC-70-5 (Fairchild)	W:\Fairchild Semiconductor\NC7S08.PDF	
38	1	U4	PE29101	Peregrine	PE29101	Peregrine	PE29101	IC, PE29101, High-speed FET Driver, 33MHz (Peregrine)	W:\Peregrine Semiconductor\29100_DOC-66216-3E.pdf	