

Capture CIS Standard Bill Of Materials - Standard Report  
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Title = SCHEMATIC PE29101 GS61008P EVK

Item	Qty	Reference	Part Description	Value	Part No.	Manufacturer	Manufacturer PN	Notes
1	4	CON1 -CON4	Connector,Banana Jack Connector Standard Banana Solder (Keystone)			Keystone Electronics	575-8	
2	1	CR1		DNI		Comchip Technology	CZRU52C6V2	DNI
3	4	C1,C18,C19,C28	CAP, CER 0603, 1.0 $\mu$ F, 25V, X7R, $\pm$ 10% (Murata)	1.0 $\mu$ F		Murata Electronics	GRM188R71E105KA12D	
4	1	C2	CAP, CER 0603, 2.2 $\mu$ F 25V Ceramic Capacitor X5R, $\pm$ 10% (Murata)	2.2 $\mu$ F		Murata Electronics	GRM188R61E225KA12D	
5	1	C3	CAP, CER 0603, 10 nF, 50 Volt, X7R, $\pm$ 10% (Murata)	10 nF		Murata Electronics	GRM188R71H103KA01D	
6	2	C7,C9	CAP, CER 0603, 0.10 $\mu$ F 50V Ceramic Capacitor X8L, $\pm$ 10% (Murata)	0.10 $\mu$ F		Murata Electronics	GCM188L81H104KA57D	
7	1	C8	CAP, DNI 0603	DNI				DNI
8	1	C10	CAP,47 $\mu$ F 80V Aluminum Capacitors Radial, Can - SMD (Panasonic)	DNI		Panasonic	EEE-FK1K470P	
9	3	C11,C12,C13	CAP, CER 10 $\mu$ F 100V X7R Stacked, SMD J-Lead 0.240" L x 0.209" W (6.10mm x 5.30mm) (Murata)	10 $\mu$ F		Murata Electronics	KRM55TR72A106MH01K	
10	3	C15,C16,C17	CAP, CER 1206, 1 $\mu$ F, 100 Volt, X7R, $\pm$ 10% (Murata)	1 $\mu$ F		Murata Electronics	GRM31CR72A105KA01L	
11	3	C20,C21,C22	CAP, CER 1210, 22 $\mu$ F 25Volt, X5R, $\pm$ 20% (Murata)	22 $\mu$ F		Murata Electronics	GRM31CR61E226ME15L	
12	1	C23	CAP, 220 $\mu$ F 25V Aluminum Capacitors Radial, Can - SMD (Panasonic)	DNI		Panasonic	EEE-FK1E221P	DNI
13	1	C24	CAP, CER 0603, 1.0 nF, 50 Volt, X7R, 10% (Murata)	DNI		Murata Electronics	GRM188R71H102KA01D	
14	1	D1	Diode, Schottky, .8A, 70V, Barrier Rectifier, BAS70LP (Diodes Inc.)			Diodes Incorporated	BAS70LP-7B	
15	1	D2	Diode, Schottky, .8A, 70V, Barrier Rectifier, BAS70LP (Diodes Inc.)	DNI		Diodes Incorporated	BAS70LP-7B	DNI
16	2	JP3,JP4	Connector, Hdr, Straight, Unshrouded, 1x3, 0.100" Pitch TH (Samtec)			Samtec	TSW-103-07-G-S	
17	1	J2	CONN, Terminal Blocks - Wire to Board, Terminal Block, TH, Female, ED120/DS, 2 POS			On Shore Technology Inc.	A98235	
18	1	L1	IND, SMD, Power Inductors, DFEH12060D, 3.3uH, 13A, 6.3 mOhm Max, 0.512" L x 0.496" W (13.00mm x 12.60mm)	3.3uH		Murata Electronics	DFEH12060D-3R3M=P3	
19	1	PCB1	PE29101, GS61008P EVK PCB			pSemi	PRT-69917-01	
20	2	Q1,Q2	Transistor, MOSFET, N-CH, 60V, 50A, TDSO8	GS61008P DS		GaN Systems	BSC0902NSI	
21	4	R1,R4,R17,R18	RES, CHIP 0603, DNI	DNI				DNI
22	1	R2	RES, CHIP 0603, 0 OHM Jumper, 1/10W, ERJ, (Panasonic)	0		Panasonic	ERJ-3GEY0R00V	
23	1	R3	RES, CHIP 0603, 10K OHM, $\pm$ 1%, 1/10W, $\pm$ 100ppm/ $^{\circ}$ C, ERJ, (Panasonic)	10K		Panasonic	ERJ-3EKF1002V	
24	2	R5,R23	RES, CHIP 01005, DNI	DNI				
25	1	R6	RES, SMD, Thick Film, 150K, $\pm$ 1%, 0.1W, 1/10W, 0402 (1005 metric)	150K		Panasonic	ERJ-2RKF1503X	
26	1	R7	RES, SMD, Thick Film, 80.6K, $\pm$ 1%, 0.1W, 1/10W, 0402 (1005 metric)	80.6K		Panasonic	ERJ-2RKF8062X	
27	2	R8,R10	RES, CHIP 0201, 4.7 OHM, 5%, 1/20W, 100PPM, ERJ, (Panasonic)	4.7 OHM		Panasonic	ERJ-1GEJ4R7C	
28	2	R9,R11	RES, SMD, Thick Film, 1, $\pm$ 5%, 0.05W, 1/20W, 0201 (0603 metric)	1		Panasonic	ERJ-1GEJ1ROC	
29	2	R12,R13	RES, POT 3/8" Square 500K OHM variable, 3296 (Bourns)	DNI		Bourns Inc.	3296W-1-504LF	DNI
30	1	R14	RES, CHIP 0603, 2 OHM, 1%, 1/4W, 200PPM, ERJ, (Panasonic)	DNI		Panasonic	ERJ-3BQF2R0V	DNI
31	1	R21, R22	RES, SMD, Thick Film, 30K, $\pm$ 1%, 0.1W, 1/10W, 0402 (1005 metric)	DNI		Panasonic	ERJ-2RKF3002X	DNI
32	1	R24	RES, SMD, Thick Film, 0, Jumper, 0.1W, 1/10W, 0402 (1005 metric)	0		Panasonic	ERJ-2GE0R00X	
33	4	TPSMD1 - TPSMD4	PC TEST POINT MINI SMD (Keystone)			Keystone Electronics	5017	
34	1	U1	IC,Linear Voltage Regulator IC Positive Fixed 1 Output 5V 150mA SOT-23-5			Texas Instruments	TPS70960DBVR	
35	1	U3	IC, AND Gate IC 1 Channel SC-70-5 (Fairchild)			Fairchild Semiconductor	NC7S08P5XCT	
36	1	U4	IC, PE29101, High-speed FET Driver, 33MHz (Peregrine)			pSemi	PE29101	
37	1	P1	TERM BLOCK PLUG 2POS STR 5.08MM			On Shore Technology Inc.	EDZ950/2	Install on J2 mating connector for customer use