

[GD6112TRC3P-EVK-003] BOM

Device	Designator	Part Name	Values	Manufacture	Quantity
Capacitor	C1, C2, C3, C4, C5, C6, C8, C100, C108, C109, C110, C118, C119, C120, C128, C129, C200, C208, C209, C210, C218, C219, C220, C228, C229, C301, C305, C307, C310, C314, C316, C319, C323, C325, C328, C332, C334, C337, C341, C343, C346, C350, C352, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365	GCM155R71H104KE02	CAP CER 0.1μF 50V X7R 0402	Murata	55
Capacitor	C7, C9	GCM31CC71H475KA03	CAP CER 4.7μF 50V X7S 1206	Murata	2
Capacitor	C101, C107, C111, C117, C121, C127, C201, C207, C211, C217, C221, C227, C302, C306, C308, C311, C315, C317, C320, C324, C326, C329, C333, C335, C338, C342, C344, C347, C351, C353	GCM31CD7YA106KE36	CAP CER 10μF 35V X7T 1206	Murata	30
Capacitor	C102, C112, C122, C202, C212, C222, C300, C309, C318, C327, C336, C345	-	No mounted	-	12
Capacitor	C103, C104, C105, C113, C114, C115, C123, C124, C125, C203, C204, C205, C213, C214, C215, C223, C224, C225	GCM1555C1H101JA16	CAP CER 100pF 50V C0G/NP0 0402	Murata	18
Capacitor	C106, C116, C126, C206, C216, C226	GCM155R71C224KE02	CAP CER 0.22μF 16V X7R 0402	Murata	6
Capacitor	C303, C312, C321, C330, C339, C348	GCM1555C1H102JA16	CAP CER 1000pF 50V C0G/NP0 0402	Murata	6
Capacitor	C304, C313, C322, C331, C340, C349	GCM1885C1H103GA16	CAP CER 10000pF 50V C0G/NP0 0603	Murata	6
Diode	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14	RB508FM-40SFH	DIODE ARR SCHOTT 40V 80MAROHM SOT323	ROHM	14
Diode	D100, D101, D105, D106, D110, D111, D200, D201, D205, D206, D210, D211	US1NWF-7	DIODE STANDARD 1200V 1ADiodes SOD123F	Diodes	12
Diode	D104, D109, D114, D204, D209, D214, D304, D311, D318, D325, D332, D339	RB168MM100TF	DIODE SCHOTTKY 100V 1A PMDU	ROHM	12
Diode	D115, D116, D117, D118, D119, D120, D215, D216, D217, D218, D219, D220	RB521SM-30FH	DIODE SCHOTTKY 30V 200mA EMD2	ROHM	12
Diode	D300, D307, D314, D321, D328, D335	RB168LAM150TF	DIODE SCHOTTKY 150V 1A PMDTM	ROHM	6
Diode	D301, D308, D315, D322, D329, D336	KDZVTF20B	DIODE ZENER 21.2V 1W PMDU	ROHM	6
Diode	D303, D310, D317, D324, D331, D338	KDZVTF9.1B	DIODE ZENER 9.65V 1W PMDU	ROHM	6
Diode	D305, D312, D319, D326, D333, D340	KDZVTF6.2B	DIODE ZENER 6.6V 1W PMDU	ROHM	6
Diode	D306, D313, D320, D327, D334, D341	RB168LAM-30TF	DIODE SCHOTTKY 30V 1A PMDTM	ROHM	6
LED	D15, D302, D309, D316, D323, D330, D337	SML-D14MWT86A	LED YLW-GRN CLEAR 1608 SMD	ROHM	7
LED	D102, D103, D107, D108, D112, D113, D202, D203, D207, D208, D212, D213	SML-D14U2WT86A	LED RED CLEAR 1608 SMD	ROHM	12
Filter	FL1	PLT5BPH1015R4SNL	-	Murata	1
Connector	J1	BM50B-SHLDS-G-TFT	CONN SMD	JST	1
Connector	J2, J3, J4	734152063	CONN MMCX JACK STR 50 OHM SMD	Molex	3

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Device	Designator	Part Name	Values	Manufacture	Quantity
Inductor	L1	SPM6530T-4R7M-HZ	FIXED IND 4.7μH 5.6A 39.38 MOHM	TDK	1
MOSFET	Q100, Q101, Q102, Q200, Q201, Q202	RSQ020N03HZG	MOSFET N-CH 30V 2A TSMT6	ROHM	6
Test Point	TP1, TP2, TP3, TP4, TP5, TP100, TP102, TP103, TP104, TP105, TP107, TP108, TP109, TP110, TP112, TP113, TP114	RCT-0C	PC TEST POINT NATURAL	TE Connectivity AMP Connectors	17
Transformer	TR300, TR301, TR302, TR303, TR304, TR305	CEEH1312	-	SUMIDA	6
IC	U1	BD950N1WEFJ-CE2	IC REG LINEAR 5V 150mA 8-HTSOP-J	ROHM	1
IC	U100, U101, U102, U200, U201, U202	BM6112FV-C	IC ISO 3750VRMS 1CH GD	ROHM	6
IC	U300, U302, U304, U306, U308, U310	LT1964EDD#TRPBF	IC REG LIN NEG ADJ 200mA 8-DFN	Analog devices	6
IC	U301, U303, U305, U307, U309, U311	BD7F205EFJ-C	IC REG FLYBACK ADJ 8HTSOP-J	ROHM	6
Resistor	R1, R2, R3, R308, R323, R338, R353, R368, R383	MCR01SMQPF1002	RES SMD 10k OHM 1% 1/16W 0402	ROHM	9
Resistor	R4, R5, R6	MCR01SMQPF1801	RES SMD 1.8k OHM 1% 1/16W 0402	ROHM	3
Resistor	R7, R8, R9	MCR01SMQPF4301	RES SMD 4.3k OHM 1% 1/16W 0402	ROHM	3
Resistor	R10, R11, R12	MCR01SMQPF1301	RES SMD 1.3k OHM 1% 1/16W 0402	ROHM	3
Resistor	R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R101, R102, R112, R115, R118, R119, R129, R132, R135, R136, R146, R149, R201, R202, R212, R215, R218, R219, R229, R232, R235, R236, R246, R249, R301, R316, R331, R346, R361, R376	MCR01SMQPF4701	RES SMD 4.7k OHM 1% 1/16W 0402	ROHM	42
Resistor	R100, R117, R134, R200, R217, R234	MCR01SMQPF1502	RES SMD 15k OHM 1% 1/16W 0402	ROHM	6
Resistor	R103, R120, R137, R203, R220, R237, R305, R321, R335, R351, R365, R381	MCR01SMQPF1303	RES SMD 130k OHM 1% 1/16W 0402	ROHM	12
Resistor	R104, R121, R138, R204, R221, R238	MCR01SMQPF9101	RES SMD 9.1k OHM 1% 1/16W 0402	ROHM	6
Resistor	R105, R107, R109, R122, R124, R126, R139, R141, R143, R205, R207, R209, R222, R224, R226, R239, R241, R243	MCR01SMQPF1000	RES SMD 100 OHM 1% 1/16W 0402	ROHM	18
Resistor	R106, R108, R123, R125, R140, R142, R206, R208, R223, R225, R240, R242	LTR18EZPF5R60	RES 5.6 OHM 1% 1.5W 1206 WIDE	ROHM	12
Resistor	R110, R111, R127, R128, R144, R145, R210, R211, R227, R228, R244, R245	LTR18EZPF13R0	RES 13 OHM 1% 1.5W 1206 WIDE	ROHM	12
Resistor	R113, R130, R147, R213, R230, R247	MCR03SEQPJ000	RES SMD 0 OHM JUMPER 1/10W 0603	ROHM	6
Resistor	R114, R116, R131, R133, R148, R150, R214, R216, R231, R233, R248, R250	MCR03SEQPF20R0	RES SMD 20 OHM JUMPER 1/10W 0603	ROHM	12
Resistor	R300, R315, R330, R345, R360, R375	-	No mounted	-	6

Device	Designator	Part Name	Values	Manufacture	Quantity
Resistor	R302, R317, R332, R347, R362, R377	MCR18SEQPJ162	RES SMD 1.6k OHM 5% 1/4W 1206	ROHM	6
Resistor	R303, R318, R333, R348, R363, R378	MCR01SMQPF6801	RES SMD 6.8k OHM 1% 1/16W 0402	ROHM	6
Resistor	R304, R319, R334, R349, R364, R379	MCR03SEQPF1001	RES SMD 1k OHM JUMPER 1/10W 0603	ROHM	6
Resistor	R306, R320, R336, R350, R366, R380	MCR18SEQPJ391	RES SMD 390 OHM 5% 1/4W 1206	ROHM	6
Resistor	R307, R322, R337, R352, R367, R382	MCR10SEQPJ000	RES SMD 0 OHM JUMPER 1/8W 0805	ROHM	6
Resistor	R309, R324, R339, R354, R369, R384	MCR01SMQPF2001	RES SMD 2k OHM 1% 1/16W 0402	ROHM	6
Resistor	R310, R325, R340, R355, R370, R385	MCR01SMQPF3602	RES SMD 36k OHM 1% 1/16W 0402	ROHM	6
Resistor	R311, R326, R341, R356, R371, R386	-	Not Mounted	-	6
Resistor	R312, R327, R342, R357, R372, R387	MCR01SMQPF4702	RES SMD 47k OHM 1% 1/16W 0402	ROHM	6
Resistor	R313, R328, R343, R358, R373, R388	MCR01SMQPJ183	RES SMD 18k OHM 1% 1/16W 0402	ROHM	6
Resistor	R314, R329, R344, R359, R374, R389	MCR01SMQPF2701	RES SMD 2.7k OHM 1% 1/16W 0402	ROHM	6

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