

ITEM NO	REFEREN	QUANTITY	VALUE	PART NUM	MANUFAC	DESCRIPT	PACKAGE	AVAILABIL
1	C1, C3	2	10uF	TMK107BE	Taiyo Yude	CAP, CER	603	Active
2	C2	1	0.1uF	06035C10	AVX	CAP, CER	603	Active
3	C4	1	10uF	C1608X5R	TDK	CAP, CER	603	Active
4	C5, C6, C26		22uF	GRM21BR	MuRata	CAP, CER	805	Active
5	C7, C16, C7		1uF	GCM188R	MuRata	CAP, CER	603	Active
6	C8	1	3300pF	CGA2B2X	TDK	CAP, CER	402	Active
7	C9	1	4.7uF	C0603C47	Kemet	CAP, CER	603	
8	C10, C12	2	100pF	C0402C10	Kemet	CAP, CER	402	
9	C11, C13, C4		22pF	GRM155C	MuRata	CAP, CER	402	Not For Ne
10	C17, C18	2	1000pF	C0402C10	Kemet	CAP, CER	402	
11	C21, C22	2	2200pF	GRM155R	MuRata	CAP, CER	402	Not For Ne
12	C23, C24	2	0.1uF	GRM033Z	MuRata	CAP, CER	201	Active
13	C26, C31	2	0.1uF	08053C10	AVX	CAP, CER	805	Active
14	C28, C29	2	0.01uF	08051C10	AVX	CAP, CER	805	Active
16	C82	1	0.082uF	0603YC82	AVX	CAP, CER	603	Active
17	C83, C84, C4		220uF	TCN4227M	AVX	220uF Mol	2924	Active
18	C87, C88	2	22uF	C3216X5R	TDK	CAP, CER	1206	Active
19	C172, C17	16	470uF	EEF-GX0E	Panasonic	CAP, Alum	SMD_7.3x	Active
20	C178, C19	8		GRM155C	Murata	CAP CER	402	Active
21	C179, C18	24	22uF	GRM21BR	MuRata	CAP, CER	805	
22	C183, C18	16	2.2uF	C1005X5R	TDK	CAP, CER	402	Active
23	C186, C20	8	0.1uF	GCM155R	MuRata	CAP, CER	402	Active
24	C300, C30	4	0.1uF	GRM033R	MuRata	CAP, CER	201	Active
25	C301, C30	20	22uF	GRM188R	MuRata	CAP, CER	603	Active
26	C303, C31	5	47uF	GRM21BR	MuRata	CAP, CER	805	Active
27	C315, C33	5	10uF	GRM188R	MuRata	CAP, CER	603	Active
28	C325	1	4.7uF	GRM155R	MuRata	CAP, CER	402	
29	C329	1	47uF	GRM188R	MuRata	CAP, CER	603	Active
30	C336	1	47uF	TAJE476M	AVX	CAP, TA,	47343-43	Active
31	C337, C33	2	2.2uF	GRM155R	MuRata	CAP, CER	402	Active
32	C342	1	4.7uF	C1005X5R	TDK	CAP, CER	402	Active
33	C343, C34	2	1uF	GRM033R	MuRata	CAP, CER	201	Active
34	C345, C39	2	22uF	GRM155R	MuRata	CAP, CER	402	
35	C348, C34	2	1uF	GRM155R	MuRata	CAP, CER	402	Active
36	C350, C35	2	4.7uF	C1005X5R	TDK	CAP, CER	402	Not For Ne
37	C353, C35	3	4.7uF	GRM155R	MuRata	CAP, CER	402	Active
38	C356	1	0.1uF	GRM033R	MuRata	CAP, CER	201	Active
39	C357, C35	2	47uF	C3216X5R	TDK	CAP, CER	1206_190	Active
40	C359, C36	30	100uF	GRM21BR	MuRata	CAP, CER	805	
41	C369, C38	3	4.7uF	GRM155R	MuRata	CAP, CER	402	
42	C370, C37	4	47uF	C3216JB1	TDK	CAP, CER	1206	Obsolete
43	D1, D2, D4	8	30V	MBR0530T	ON Semicc	Diode, Sch	SOD-123	Active
44	D3, D6, D1	5	Red	LTST-C17	Lite-On	LED, Red,	Red 0805	Active
45	D7	1	30V	BAT54-7-F	Diodes Inc.	Diode, Sch	SOT-23	Active
46	D14, D15, C4		Green	LTST-C17	Lite-On	LED, Green	LED_0805	Active
47	H1, H3, H5	4		NY PMS 4	B&F Fasten	Machine S	Screw	Active
48	H2, H4, H6	4		1902C	Keystone	Standoff, H	Standoff	Active
49	J1, J4	2		22284043	Molex	Header, 2	Header, 2	
50	J2, J3, J5,	15		TSW-102-	Samtec	Header, 10	2x1 Heade	Active
51	J7	1		5103308-1	TE Connec	Header (sh	5x2 Shrouc	Active
52	J9, J10	2		HSEC8-13	Samtec	C2000 con	C2000 pin	Active

53	J11, J12	2		131-3711-2 Cinch Conr Connector, Connector, Active
54	J13, J14, J13			1935776 Phoenix Co Terminal B Terminal B Active
55	J19	1		TSM-104-C Samtec Header, 2.5 Header, 2.5 Active
56	J20, J21, J3			610002183 Würth Elek Header, 2.5 Header, 2.5
57	J23	1		52745-063 Molex FFC/FPC (FFC/FPC (
58	J25, J27	2		TSM-103-C Samtec Header, 2.5 Header, 2.5 Active
59	J26	1		N2510-600 3M Header (sh 5x2 Shrouc Active
60	J28	1		SL 11 112 Fischer Ele Header, 2.5 TH, 3-Leac
61	L1	1	55nH	PA4059.55 Pulse Fixed Ind 5 SMT_IND_ Active
62	L2, L3, L4, 8		150nH	SLR1050A Coilcraft Inductor, S 10.2x7mm
63	L10, L11, L3		470nH	XEL6030-4 Coilcraft Inductor, S
64	L13, L14, L3			XEL3530-5 Coilcraft Shielded P SMT_IND_
65	Q1, Q2, Q3, 4		30V	CSD17303 Texas Instr MOSFET, 1 DQH0008A Active
66	Q5	1	-20V	BSS223PV Infineon Te MOSFET, 1 SOT-323
67	Q6, Q7, Q8, 4		100V	BSS123 Fairchild S MOSFET, 1 SOT-23 Active
68	Q10, Q11, 3		25V	CSD86360 Texas Instr MOSFET, 1 DQY0008A Active
69	R1, R2, R5, 3		1	RC0603FR Yageo RES, 1.00, 603 Active
70	R3	1	523k	RC0201FR Yageo Am RES, 523 k 201 Active
71	R4, R8, R1, 20		0	CRCW060 Vishay-Dal RES, 0, 5% 603 Active
72	R6	1	100k	CRCW020 Vishay-Dal RES, 100 k 201 Active
73	R7, R9, R1, 47		0	CRCW040 Vishay-Dal RES, 0, 5% 402 Active
74	R13	1	20.0k	CRCW060 Vishay-Dal RES, 20.0 603 Active
75	R14	1	1.30Meg	CRCW060 Vishay-Dal RES, 1.30 603 Active
76	R18	1	59.0k	CRCW040 Vishay-Dal RES, 59.0 402 Active
77	R19	1	20k	CRCW040 Vishay-Dal RES, 20 k, 402
78	R22, R23	2	1.0k	CRCW060 Vishay-Dal RES, 1.0 k 603
79	R30, R31, 6		10k	RC0201JR Yageo Am RES, 10 k, 201
80	R33, R37	2	121k	CRCW060 Vishay-Dal RES, 121 k 603
81	R39, R40, 68		0.2	CSRN2512 Stackpole I RES, 0.2, 12512
82	R43	1	10k	TC164-JR- Yageo Am RES, 10 k, 3.2x1.6mm
83	R74, R75, 4		75	CRCW060 Vishay-Dal RES, 75.0, 603
84	R76, R81, 4		330	CRCW080 Vishay-Dal RES, 330, 805
85	R77, R78, 4		100	CRCW060 Vishay-Dal RES, 100, 603
86	R79, R80, 10		10k	CRCW060 Vishay-Dal RES, 10 k, 603
87	R84, R116	2	8.06k	CRCW060 Vishay-Dal RES, 8.06 603
88	R117	1	100k	CRCW060 Vishay-Dal RES, 100 k 603
89	R128	1	10	CRCW040 Vishay-Dal RES, 10.0, 402
90	R129	1	0.0005	RL1632L4- Cyntec RES, 0.0005 (1.5x3.15mm)
91	R130, R13	5	180	CRCW060 Vishay-Dal RES, 180, 603
92	R149, R15	8	10.2k	ERA-2AEB Panasonic RES, 10.2 402
93	R152, R15	8	2.2	CRCW040 Vishay-Dal RES, 2.2, 5 402
94	R211, R21	3	12.4k	CRCW040 Vishay-Dal RES, 12.4 402
95	R215, R21	11	100k	CRCW040 Vishay-Dal RES, 100 k 402
96	R226, R22	2	1.0k	CRCW040 Vishay-Dal RES, 1.0 k 402
97	R228	1	91.0k	RC0201FR Yageo Am RES, 91.0 201
98	R229	1	10.2k	RC0201FR Yageo Am RES, 10.2 201
99	R230, R23	2	10.7k	RC0201FR Yageo Am RES, 10.7 201
100	R232, R23	3	17.4k	RC0201FR Yageo Am RES, 17.4 201
101	R233	1	56.0k	CRCW020 Vishay-Dal RES, 56.0 201
102	R234, R23	4	10.0k	CRCW020 Vishay-Dal RES, 10.0 201
103	R235, R24	2	10.0k	RC0201FR Yageo Am RES, 10.0 201
104	R236	1	9.09k	CRCW020 Vishay-Dal RES, 9.09 201

105	R237, R24	2	15.4k	RC0201FR Yageo Am	RES, 15.4	201
106	R240	1	26.1k	RC0201FR Yageo Am	RES, 26.1	201
107	R243	1	14.0k	RC0201FR Yageo Am	RES, 14.0	201
108	S1, S2	2		EG1218 E-Switch	Switch, SP 4x11.6mm	
109	S3	1		78B04ST Grayhill	DIP Switch	DIP Switch
110	S4	1		SDA06H1	C&K Comp	Switch, SP 10.4x3.9x9
111	T1, T2, T3,	8		CB70-14-C Panduit	Terminal 9	CB70-14-C
112	TP1, TP4,	15		5000 Keystone	Test Point, Red Mini	
113	TP5, TP48	11		5001 Keystone	Test Point, Black Mini	
114	TP7, TP17	14		5006 Keystone	Test Point, Black Com	
115	TP9, TP10	18		5007 Keystone	Test Point, White Com	
116	TP16, TP1	3		5005 Keystone	Test Point, Red Comp	
117	TP59, TP6	14		5015 Keystone	Test Point, Testpoint_I	
118	U1	1		TLV76733I Texas Instr	Linear Volt: WSON6	
119	U2	1		TPS82130 Texas Instr	3-A 17V St SIL0008D	
120	U3	1		TPS53688 Texas Instr	TPS53688 RSB0040E	
121	U4	1		CD74HCT Texas Instr	High Speed D0014A	
122	U5, U7	2		UCC27324 Texas Instr	Dual 4 A P D0008A	
123	U6	1		TLC555CD Texas Instr	2.1-MHz, 2 D0008A	
124	U8, U9, U18			CSD95410 Texas Instr	Synchronous RWJ0041A	
125	U16	1		TPS65086 Texas Instr	Configurab RSK0064C	
126	U17	1		TPSM5D1 Texas Instr	4.5-V to 18 B0QFN51	
127	U18, U19	2		TPSM5D1 Texas Instr	4.5-V to 18 QFN-FCM	
128	C171, C18	1	1000pF	GRM155R MuRata	CAP, CER I402	
129	C182, C19	1	0.1uF	GCM155R MuRata	CAP, CER I402	
130	C185, C20	1	100pF	C0402C10 Kemet	CAP, CER I402	
131	C302	1	47uF	GRM21BR MuRata	CAP, CER I805	
132	C346, C34	1	0.1uF	GRM033R MuRata	CAP, CER I201	
133	R147, R15	1	1	CRCW060 Vishay-Dal	RES, 1.0, 603	

**ROHS (DIK ROHS (GR LEAD FRE LEAD FRE REACH ST REACH ST REACH EF DESCRIPT MANUFAC**

ROHS3 Cc	Lead Statu	Reach unk		CAP CER : Taiyo Yude
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER (KYOCERA
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER : TDK Corp
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER : TDK Corp
YES		LEAD FRE	REACH NC	
YES		LEAD FRE	REACH NC	
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
YES		LEAD FRE	REACH NC	
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER (Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER (KYOCERA
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER : KYOCERA
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER (KYOCERA
ROHS3 Cc	Lead Statu	Reach unk		CAP TANT KYOCERA
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER : TDK Corp
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP ALUM Panasonic
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
YES		LEAD FRE	REACH NC	
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER : TDK Corp
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER (Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER (Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
YES		LEAD FRE	REACH NC	
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc	Lead Statu	Reach una		CAP TANT KYOCERA
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER : TDK Corp
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach unk REACH NC	CAP CER : Murata Ele
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER : TDK Corp
YES		LEAD FRE	REACH NC	
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CAP CER : TDK Corp
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	DIODE SC onsemi
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	LED RED (Lite-On Inc
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	DIODE SC Diodes Inc
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	LED GREE Lite-On Inc
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	MACHINE B&F Faster
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	HEX STAN Keystone E
YES		LEAD FRE	REACH NC	
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CONN HE/ Samtec Inc
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CONN HE/ TE Connec
ROHS3 Cc YES	Lead Statu	LEAD FRE	Reach una REACH NC	CONN ED( Samtec Inc

RoHS Corr EXEMPT	Lead Statu LEAD	Reach unk REACH NC	CONN SMI Cinch Contr
RoHS Corr YES	Lead Statu LEAD FRE	Reach unk REACH NC	TERM BLK Phoenix Co
ROHS3 Cc YES	Lead Statu LEAD FRE	Reach una REACH NC	CONN HE/ Samtec Inc

ROHS3 Cc YES	Lead Statu LEAD FRE	Reach una REACH NC	CONN HE/ Samtec Inc
ROHS3 Cc YES	Lead Statu LEAD FRE	Reach una REACH NC	CONN HE/ 3M

ROHS3 Cc	Lead Statu	Reach una	FIXED IND Pulse Elect
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RoHS non- YES	Lead Statu LEAD FRE	Reach affe REACH NC	MOSFET 1 Texas Instr
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ROHS3 Cc YES	Lead Statu LEAD FRE	Reach una REACH NC	MOSFET Nonsemi
ROHS3 Cc	Lead Statu	Reach affe	MOSFET 2 Texas Instr
ROHS3 Cc EXEMPT	Lead Statu LEAD	Reach una REACH NC	RES 1 OHI YAGEO
ROHS3 Cc	Lead Statu	Reach una	RES 523K YAGEO
ROHS3 Cc EXEMPT	Lead Statu LEAD	Reach unk REACH NC	RES SMD Vishay Dal
ROHS3 Cc EXEMPT	Lead Statu LEAD	Reach unk REACH NC	RES SMD Vishay Dal
ROHS3 Cc EXEMPT	Lead Statu LEAD	Reach una REACH NC	RES SMD Vishay Dal
ROHS3 Cc EXEMPT	Lead Statu LEAD	Reach unk REACH NC	RES SMD Vishay Dal
ROHS3 Cc EXEMPT	Lead Statu LEAD	Reach unk REACH NC	RES SMD Vishay Dal
ROHS3 Cc EXEMPT	Lead Statu LEAD	Reach unk REACH NC	RES SMD Vishay Dal

EXEMPT	LEAD	REACH NC
EXEMPT	LEAD	REACH NC

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EXEMPT	LEAD	REACH NC
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EXEMPT	LEAD	REACH NC
EXEMPT	LEAD	REACH NC
EXEMPT	LEAD	REACH NC

YES	LEAD FRE	REACH NC
YES	LEAD FRE	REACH NC

EXEMPT	LEAD	REACH NC
YES	LEAD FRE	REACH NC
YES	LEAD FRE	REACH NC
YES	LEAD FRE	REACH NC
YES	LEAD FRE	REACH NC
YES	LEAD FRE	REACH NC
YES	LEAD FRE	REACH NC

YES	LEAD FRE	REACH NC
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YES	LEAD FRE	REACH NC
YES	LEAD FRE	REACH NC
YES	LEAD FRE	REACH NC
EXEMPT	LEAD	REACH NC

**MANUFAC DIGI-KEY | WITH\_ALTERNATE\_PACKAGING**

TMK107BE 587-6023-2 YES  
06035C10 478-5052-2 YES  
C1608X5R 445-9015-2 YES  
GRM21BR 490-10749 YES  
GCM188R 490-5241-2 YES  
CGA2B2X 445-6891-2 YES

GRM155C 490-5868-2 YES

GRM155R 490-5419-2 YES  
GRM033Z 490-GRM0 YES  
08053C10 478-3755-2 YES  
08051C10 478-3745-2 YES  
0603YC82 478-1238-2 YES  
TCN4227M 478-12518 YES  
C3216X5R 445-8045-2 YES  
EEF-GX0E P122634TI YES  
GRM155C 490-10014 YES

C1005X5R 445-7392-2 YES  
GCM155R 490-10672 YES  
GRM033R 490-14571 YES  
GRM188R 490-10476 YES  
GRM21BR 490-9961-2 YES  
GRM188R 490-12733 YES

GRM188R 490-13247 YES  
TAJE476M 478-3958-2 YES  
GRM155R 490-12532 YES  
C1005X5R 445-13820 YES  
GRM033R 490-13226 YES

GRM155R 490-10020 YES  
C1005X5R 445-8023-2 YES  
GRM155R 490-5408-2 YES  
GRM033R 490-14305 YES  
C3216X5R 445-8047-2 YES

C3216JB1 445-11717 YES  
MBR0530T MBR0530T YES  
LTST-C17 160-1415-2 YES  
BAT54-7-F BAT54-FDI YES  
LTST-C17 160-1414-2 YES  
NY PMS 4 H542-ND NO  
1902C 36-1902C-I NO

TSW-102-( SAM1029-I NO  
5103308-1 A33159-NI NO  
HSEC8-13 SAM9080-I NO

131-3711-2 J816-ND NO  
1935776 277-6405-1 NO  
TSM-104-C SAM10792 NO

TSM-103-C SAM10786 NO  
N2510-600 MHC10K-1 NO

PA4059.55 553-PA405 YES

CSD17303 296-27232 YES

BSS123 BSS123NT YES  
CSD86360 296-35026 YES  
RC0603FR 311-1.00HI YES  
RC0201FR YAG2716T YES  
CRCW060 541-0.0GT YES  
CRCW020 541-100KA YES  
CRCW040 541-0.0JTF YES  
CRCW060 541-20.0KI YES  
CRCW060 541-1.30M YES  
CRCW040 541-59.0KI YES





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