CONFIDENTIAL
"SALVATOR-XS" Parts list 2018/12/25 Rev3.02
This parts list corresponds to Schematic revision Rev3.02

Company Comp	Column	Tolerance No	Rated Voltage	Device Size		HTST-110-01-S-DV					Do not stuff		natic	Reference of schema	n Quantity	Itom
Company	1				samtec		HTST-110-01-S-DV	ARM FML 20nin CN	\sim							item
The content of the	1			d II	moley	52885-107 <i>I</i>	52885-1074									1
1	1				hirosugi-keiki	PSM-410336-09	PSM-410336-09	EX-SPI CN	×					CN3 CN4		3
1	Column				samtec	QSH-030-01-L-D-A	QSH-030-01-L-D-A	EXIO 60pin CN	×					CN6 CN23 CN29	5 3	5
1.	1				molex	67491-0020	67491-0020	SATA CN	Ö					CN8	7 1	7
Company Comp	Column												CN37			
### 15 19 19 19 19 19 19 19	10			1		E8199-001-01 or 10117835-002LF	E8199-001-01	USB 3.0 A Receptacle CN	×					CN11	10 1	10
Column	10 10 10 10 10 10 10 10													CN13 CN14		
Column	10						D02-M15SAG-23L9E	AnalogRGB CN	0							13
Company Comp	10 Column Colum						1747981-1									
	1				jst	SM14B-SRSS-TB(LF)(SN)	SM14B-SRSS-TB(LF)(SN)	LVDS Backlight CN	Ŏ					CN19	16 1	16
C	March Marc				bel	0826-1G1T-23-F	0826-1G1T-23-F	RJ45 CN	×						18 1	18
Column C	Column													CN27 CN28		
2 2 2 2 2 2 2 2 2 2	27 19 29 29 29 29 29 29 29													CN30		
March Marc	20					B7B-PH-SM4-TB	B7B-PH-SM4-TB	Power Supply CN for I/O board	0					CN32	23 1	23
The content of the	Part				_											
Part Color	Part			1									CP17	CP14 CP15 CP16		
Column C	Part Part Cold			1									CP27 CP44	CP24 CP25 CP26		
Part	Part												CP53 CP54	CP50 CP51 CP52		
1	March Marc			1									CP64 CP65	CP61 CP62 CP63		
March Marc	Section Sect												CP69 CP70			
1	March Marc										C506 C520					
A	20		50V	1005	murata	GCM1555C1H100JA16	10pF*	chip capacitor	×	ightharpoonup	C19 C20 C522				28 0	28
The content of the	10		50V	1005	murata	GCM1555C1H200JA16	20pF	chip capacitor	×	ightarrow				C437 C438	30 2	30
Column	1									$oxed{oxed}$						
1	10		50V	1005	murata	GCM1555C1H330JA16	33pF	chip capacitor	×						33 0	33
Control Cont	Color Colo	1 1	50V	1005	murata	GCM1555C1H470JA16	47pF	chip capacitor	×				C950	C390 C397	35 2	35
Color Colo	Conf. Conf. Conf.		JU V	. 555	arata	SSMITOON HITTOLING!		I Depution	^				C641 C642	C638 C639 C640	, 14	30
Color Colo	Column C											C655	C653 C654	C650 C651 C652		
Column C	Company Comp												C665 C666	C662 C663 C664		
Column C	1700 1700											C704	C702 C703	C699 C700 C701		
Cold	1777 2716 2716 2717 2717 271 272			1								C716	C714 C715	C711 C712 C713		
100 100	1 1 1 1 1 1 1 1 1 1											C722 C728	C720 C721	C717 C718 C719		
No.	20		50\/	1005	murata	CCM155D71U102KA27	1000,5+	ahin annaitar	~		2206	0,20	C732 C733	C729 C730 C731		27
### Section Se	Main County Cou			1005		GCM155R71H472KA37					5500	0627	C172	C513 C529 C171		
Column C	April		10) (1005								C692	C690 C691	C687 C688 C689		
CHI	STATE CORD Color												C44 C46	C41		
C18 C17	C118 C117 C121 C122 C125 C105 C107 C107 C107 C107 C107 C107 C107 C107			1								C88	C111 C112	C102 C104 C106		
Call	C310 C385 C387 C386 C382 C382 C382 C382 C382 C382 C382 C382												C122 C125	C116 C117 C121		
Call	C310 C385 C387 C386 C382 C382 C382 C382 C382 C382 C382 C382															
Color Colo	C310 C385 C387 C386 C382 C382 C382 C382 C382 C382 C382 C382			1												
Gold Cell	C-00 C-11 C-12 C-17			1									C369 C392			
C155 C178 C178 C178 C178 C178 C178 C178 C178	C758 C759 C750			1									C403 C406 C417 C457	C394 C396 C400 C408 C411 C413		
Code	C786 C786 C777 C786 C786 C787 C786 C786			1									C756 C757	C458 C754 C755		
CAF CAR	CRAT			1									C768 C769	C765 C766 C767		
C457 C458 C458 C458 C458 C458 C458 C458 C458	CSS			1									C850 C851	C847 C848 C849		
Cold	C883 C884 C885 C886			1									C855 C856 C894	C852 C853 C854 C857 C858 C859		
Cost Cost Cost Cost Cost Cost Cost Cost	C883 C884 C885 C886			1								C629	C627 C628	C624 C625 C626		
A	43			1								C682	C680 C681	C630 C631 C679		
A	A3		25\/	1005	murata	CCM155D715102KA27	0.0154	ahia assasitan	~				0000	0000 0004 0000		41
Add	45															
Add	45															
## A	45													C201 C864		
C26 C27 C37 C49 C56 C57 C49 C56	C26															
C26 C29	C26															
C35 C37 C48 C30 C32 C126 C128 C128 C128 C128 C128 C128 C128 C148 C148 C149 C148 C149 C148 C149 C148 C150 C151 C152 C153 C155 C155 C155 C155 C155 C155 C155	Case		10V	1005	murata	GCM155R71A104KA55	0.1uF	chip capacitor	×			C23 C25	C21 C22	C1 C2 C3	15 245	45
C97 C98 C98 C90 C92 C105 C126 C127 C128 C129 C127 C128 C129 C142 C142 C144 C144 C144 C144 C145 C145 C145 C145	C87 (689 C90 C92 C126 C127 C128 C129 C142 C143 C144 C145 C146 C147 C148 C149 C152 C153 C154 C157 C158 C159 C150 C151 C152 C153 C154 C157 C158 C159 C150 C151 C152 C153 C154 C157 C279 C286 C2270 C271 C272 C276 C277 C272 C276 C277 C272 C276 C277 C273 C278 C283 C289 C280 C280 C280 C280 C280 C280 C280 C280											C64	C49 C56	C36 C37		
C142 C143 C144 C145 C146 C147 C151 C152 C152 C153 C153 C154 C147 C154 C147 C154 C157 C153 C155 C155 C155 C155 C155 C155 C155	C142 (C143 (C144) C150 (C151 (C152 (C153 (C153 (C154) (C152 (C153 (C154) (C157 (C153 (C154) (C157 (C153 (C154) (C157 (C154 (C157 (C153 (C154 (C157 (C154 (C1											C129	C127 C128	C99 C105 C126		
C154 C157 C158 C159 C160 C219 C288 C270 C271 C272 C2	C154 C157 C158 C159 C160 C219 C277 C276 C277 C277 C277 C278 C279 C288 C289 C289 C289 C289 C282 C288 C289											C147 C153	C145 C146 C151 C152	C142 C143 C144 C148 C149 C150		
C274 C275 C279 C288 C289	C274 C275 C279 C288 C289 C280 C282 C282 C282 C294 C282 C294 C295 C292 C292 C294 C295 C292 C294 C295											C219	C159 C160	C154 C157 C158		
C296 C297 C301 C318 C314 C318 C320 C321 C314 C323 C326 C338 C341 C343 C344 C345 C346 C349 C355	C296 C297 C301 C302 C313 C314 C302 C321 C315 C316 C317 C318 C320 C321 C323 C326 C338 C334 C343 C343 C344 C346 C349 C350 C351 C352 C355 C356 C358 C350 C351 C352 C355 C350 C370 C371 C373 C374 C376 C379 C373 C374 C376 C379 C373 C373 C374 C376 C379 C373 C374 C376 C379 C373 C374 C376 C379 C373 C376 C376 C377			1								C280 C282	C288 C289	C274 C275 C279		
C328 (C328 (C338 (C341 (C343 (C344 (C345 (C348 (C323 C326 C338 C331 C332 C335 C355 C355 C355 C356 C356 C356 C356			1								C314	C302 C313	C296 C297 C301		
C336 C336 C337 C374 C373 C374 C375 C379 C338 C379 C373 C374 C375 C379 C338 C384 C385 C388 C391 C339 C395 C399 C402 C405 C407 C410 C412 C416 C432 C475 C470 C471 C471 C474 C475 C479 C483 C485 C486 C488 C489 C490 C491 C492 C505 C521 C531 C532 C544 C555 C570 C575 C621 C531 C522 C544 C565 C570 C575 C601 C602 C604 C605 C606 C607 C608 C609 C610 C611 C618 C619 C627 C678 C678 C678 C738 C739 C740 C741 C747 C748 C738 C739 C740 C741 C747 C748 C749 C750 C755 C756 C756 C757 C756 C757 C738 C739 C750 C752 C753 C756 C768 C774 C775 C793 C795 C796 C798 C798 C798 C799 C802 C608 C609 C800 C800 C800 C800 C800 C800 C800 C8	C356 C358 C359 C361 C366 C368 C368 C374 C375 C374 C376 C379 C373 C374 C376 C379 C375 C383 C384 C385 C385 C389 C385 C389 C402 C405 C407 C410 C412 C416 C433 C434 C461 C464 C466 C467 C477 C473 C475 C479 C483 C485 C486 C486 C488 C489 C490 C491 C492 C505 C521 C531 C532 C544 C565 C570 C575 C601 C602 C604 C605 C606 C607 C616 C617 C616 C617 C616 C617 C617 C616 C617 C617 C617 C616 C617 C617 C770											C344	C341 C343	C323 C326 C338		
C330 (334) (237) (237) (237) (237) (237) (238) (238) (238) (238) (238) (238) (238) (238) (238) (238) (238) (238) (238) (238) (238) (248) (C370 C371 C373 C374 C376 C379 C338 C331 C338 C339 C338 C338 C339 C338 C339 C339 C340 C340 C407 C410 C4			1								C355 C368	C351 C352 C361 C366	C346 C349 C350 C356 C358 C359		
C355 C399 C402 C405 C407 C410 C416 C432 C434 C461 C464 C466 C437 C434 C461 C464 C466 C467 C471 C474 C475 C435 C485 C488 C489 C490 C491 C492	C395 C399 C402 C405 C407 C410 C461 C463 C464 C464 C464 C464 C464 C464 C464 C465 C470 C474 C475 C479 C483 C485 C486 C488 C489 C490 C491 C492 C505 C521 C531 C532 C544 C565 C570 C575 C601 C602 C604 C605 C606 C607 C608 C609 C616 C617 C616 C617 C616 C617 C616 C617 C617 C410											C379	C374 C376	C370 C371 C373 C383 C384 C385		
C466 C467 C470 C471 C474 C475 C479 C483 C485 C486 C488 C489 C490 C491 C492 C505 C521 C531 C532 C544 C565 C570 C575 C601 C602 C604 C605 C606 C607 C608 C609 C610 C611 C618 C619 C620 C621 C622 C623 C616 C672 C673 C674 C675 C606 C607 C678 C734 C735 C736 C737 C736 C737 C738 C739 C770 C771 C772 C737 G774 C775 C793 C795 C796 C798 C799 C798 C799 C798 C799 C798 C800 C801 C814	C466 C467 C470 C471 C474 C475 C476 C478 C485 C486 C486 C488 C489 C490 C491 C492 C505 C521 C531 C532 C544 C605 C604 C605 C606 C607 C608 C609 C616 C617 C616 C617											C410	C405 C407	C395 C399 C402		
C60 C607 C608 C609 C610 C611 C611 C616 C617 C618 C619 C610 C618 C619 C610 C618 C619 C610 C618 C619 C622 C623 C621 C622 C623 C623 C624 C624 C625 C624 C625 C624 C625 C625 C625 C625 C625 C625 C625 C625	C570 C575 G501 C502 C504 G505 C506 C507 C508 C509 C510 C511 C515 C517 C516 C517											C404 C475	C471 C474	C466 C467 C470		
C600 C607 C608 C609 C610 C611 C611 C616 C617 C618 C619 C610 C616 C617 C618 C619 C609 C610 C611 C616 C617 C618 C619 C609 C610 C611 C617 C618 C619 C609 C610 C611 C611 C617 C618 C619 C619 C619 C619 C619 C619 C619 C619	C570 C575 G501 C502 C504 G505 C506 C507 C508 C509 C510 C511 C515 C517 C516 C517											C489	C486 C488	C490 C491 C492		
C606 C607 C608 C609 C610 C611 C616 C616 C617 C618 C619 C622 C623 C622 C623 C674 C675 C676 C677 C678 C739 C740 C741 C747 C748 C749 C755 C752	C606 C607 C608 C609 C610 C611			1								C605	C602 C604	C5/0 C5/5 C601		
C618 C619 C620 C621 C622 C623 C671 C672 C673 C674 C675 C676 C677 C678 C734 C735 C736 C736 C737 C738 C739 C740 C741 C747 C748 C749 C750 C752 C753 C762 C763 C770 C771 C772 C773 C774 C775 C793 C795 C796 C798 C799 C802 C808 C809 C809 C810 C813 C814	C618 C619 C620 C621 C622 C623											C611 C617	C609 C610 C616	C606 C607 C608		
C672 C678 C678 C675 C676 C677 C678 C678 C678 C678 C678 C678												C623	C621 C622	C618 C619 C620		
C672 C678 C678 C675 C676 C677 C678 C678 C678 C678 C678 C678												C671				
C734 C735 C736 C736 C737 C738 C739 C740 C741 C747 C748 C749 C750 C752 C753 C762 C763 C770 C771 C772 C773 C774 C775 C793 C795 C796 C799 C802 C808 C809 C810 C813 C814	C672 C673 C674 C675 C676 C677												C675 C676			
C738 C739 C740 C741 C747 C748																
C749 C750 C752 C753 C762 C763 C770 C771 C772 C773 C773 C774 C775 C793 C795 C796 C798 C799 C796 C798 C799 C796 C798 C799 C796 C798 C799 C797	C734 C735 C736 C737											C737 C748	C735 C736 C741 C747	C738 C739 C740		
												C763	C753 C762	C749 C750 C752		
II													C798 C799	C793 C795 C796		
	C802 C808 C809 C810 C813 C814											C814	C810 C813	C802 C808 C809		
C830 C831 C895 C906 C907 C908 C907 C908 C907 C908 C908 C908 C908 C908 C908 C908 C908	C830 C831 C895 C906 C907 C914 C9											C907	C906	C830 C831 C895		
	C914 C915 C916 C917 C918 C919			i I	1							C919	C917 C918	C914 C915 C916 C920 C921 C922		
N N N 10.970 (1.977 (1.972 (1.973 (1.				, II							. 1			102/1 109//	1	11

The content of the						C970 C971												
Second Column	46	C934 22 C291	C936	C978 C308	C979 C328	C493	C558	C562	C932	C933	×	chip capacitor	0.1uF	GCM155R71H104KE02	murata	1005	50V	
## Company of the com	47	C826	C827	C901	C902	C903 C545										1005	10)	
The content of the		0 4 C163	C165			C874 C213												
Column C					C70													
Column	30	C114 C322	C119 C327	C329	C330	C312 C332					Î ^	спр сараског	lur	GOWITOUT ATOSKES	murata	1003	100	
Column C		C339	C342	C345														
Second Column		C797	C801	C751 C811	C812	C815												
The content of the			C951	C952	C953	C954 C955 C956												
The content of the		C667 0	C668	C669	C670		C305											
The content of the	52	C354	C357								×	chip capacitor	2.2uF	GCM188C71A225KE02	murata	1608	10V	
The content of the	53	26 C85	C103								×	chip capacitor	4.7uF	GCM21BC71E475KE36	murata	2012	25V	
The color of the						G245												
Column	F.4	C574						0204			,		47.50	00001007154754500		0010	05)/	
The content of the	55	49 C155	C156				<u> </u>	0304			×	chip capacitor	6.8uF	GCM31CR71A685KA64	murata	3216	10V	
Company		C375	C382	C398	C401	C404												
The control		C444 C456	C451 C465	C453 C468	C454 C469	C455 C472												
A		C561	C566	C571	C577	C579 C580 C581 C58	2											
The content of the	58	2 C742 6 C781	C743 C782	C783							×	chip capacitor	22uF	GRM21BR61E226ME44	murata	2012	25V	
State	60				C542						×	chip capacitor	47uF	GRM32ER71A476KE15	murata	3225	10V	
Second Column																		
Second Column																		
Second Column	60	1 0000									V	ahin oor siiter	100uE	CDM31CD60 H07MF30	mi vet-	2016	6.2)/	
Column	63			D21							×	Shottky Barrier Diode	RB706W-40FH	RB706W-40FH or RB706WM-40FH	rohm	3210	0.3 V	
1	66	0									0	Shottky Barrier Diode	TCH10A15	TCH10A15	nihon inter elect			
1	68 69	2 E17	E18								×	Shottky Barrier Diodes ALUMINUM ELECTROLYTIC CAP	B360B-13-F 22uF	B360B-13-F EMVE6R3ADA220MD55G	diodes nippon kemi-con			
Column C	71	1 E12		E7	E8	E9					Ŏ	ALUMINUM ELECTROLYTIC CAP	470uF	EMZJ250ADA471MJA0G	nippon kemi-con		25V	
The content of the	73 74	2 E20 3 JP1	E22 JP3	JP4							O ×	ALUMINUM ELECTROLYTIC CAP 2 Pin header	270uF HWP-2P-G	10SVPC270M HWP-2P-G	sanyo mac8			
Column	76	0		LED4	LED5	LED6					×	RF MMCX CONNECTOR	82_MMCX-50-0-18/111_OE	82_MMCX-50-0-18/111_OE	huber+suhner			
## 15 1 1 1 1 1 1 1 1 1		LED8	LED9	LED11	LED12	LED14 LED15							PG1102W	PG1102W-TR	stanley	1000		-0/
Column	80	0	1								11 X	Inductor	III OuH			1608		0%
Column C	01	0									×	Inductor	0.15uH	SPM3020T-R15M-CA02	tdk			
Barrier Barr	82 83	0									X X X	Inductor Ferrite Chip Beads Inductor Inductor	0.15uH 600ohm@100MHz 120ohm@100MHz 600ohm@100MHz	SPM3020T-R15M-CA02 BLM15AX601SN1 BLM15BB121SN1 BLM18AG601SN1	tdk murata murata murata	1005 1005		
Column C	82 83 84 85 86	0 0 0 0 0 0	L32	L33							× × × × O O	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Ferrite Chip Beads EMI-FIL	0.15uH 600ohm@100MHz 120ohm@100MHz 600ohm@100MHz BLM18PG330SN1D BLM18AG102SN1D EMI-FIL NFW31SP107X1E4	SPM3020T-R15M-CA02 BLM15AX601SN1 BLM15BB121SN1 BLM18AG601SN1 BLM18PG330SN1D BLM18AG102SN1D NFW31SP107X1E4L	tdk murata murata murata murata murata murata murata murata	1005 1005		
Second Content Seco	82 83 84 85 86 87	0 0 0 0 0 0 3 L31	L32	L33							× × × O O ×	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Ferrite Chip Beads EMI-FIL EMI-FIL	0.15uH 600ohm@100MHz 120ohm@100MHz 600ohm@100MHz BLM18PG330SN1D BLM18AG102SN1D EMI-FIL NFW31SP107X1E4 NFE31	SPM3020T-R15M-CA02 BLM15AX601SN1 BLM15BB121SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG602SN1D BLM18AG102SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M	tdk murata murata murata murata murata murata murata murata murata	1005 1005 1608		
2 1.6 1.6 1.7	82 83 84 85 86 87 88	0 0 0 0 0 0 0 0 3 131 0	L32	L33							× × × × O O × × O	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Ferrite Chip Beads Ferrite Chip Beads EMI-FIL EMI-FIL Inductor	0.15uH 600ohm@100MHz 120ohm@100MHz 600ohm@100MHz BLM18PG330SN1D BLM18AG102SN1D EMI-FIL NFW31SP107X1E4 NFE31	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG602SN1D NFW31SP107X1E4L NFE31P7222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT	tdk murata murata murata murata murata murata murata toko toko or tdk	1005 1005 1608 7366		
1.10 1.09 1.09 1.00	82 83 84 85 86 87 88	0 0 0 0 2 L51	L52								× × × × O O × O × × ×	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Ferrite Chip Beads Ferrite Chip Beads EMI-FIL EMI-FIL Inductor Inductor Inductor	0.15uH 600ohm@100MHz 120ohm@100MHz 600ohm@100MHz BLM18PG330SN1D BLM18AG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH	SPM3020T-R15M-CA02 BLM15AX601SN1 BLM15BB121SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG102SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H2MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk	7366 2016		
Section No.	82 83 84 85 86 87 88 89 90 91 92 93	0 0 0 0 2 L51 5 L61 2 L64	L52 L62	L63 L112							X	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Ferrite Chip Beads Ferrite Chip Beads EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Common Mode Filters	0.15uH 600ohm@100MHz 120ohm@100MHz 600ohm@100MHz BLM18PG330SN1D BLM18AG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G	SPM3020T-R15M-CA02 BLM15AX601SN1 BLM15BB121SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG1004DD-1R5M MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G	tdk murata murata murata murata murata murata toko toko or tdk toko or tdk toko or tdk toko dy	7366 2016 109100		
No.	82 83 84 85 86 87 88 89 90 91 92 93	0 0 0 0 2 2 L51 5 L61 2 L64 7 L68 L108	L52 L62 L69 L109	L63 L112 L70	L71	L72					× × × × × × × × × × × × × × × × × × ×	Inductor Ferrite Chip Beads Inductor Inductor Inductor Ferrite Chip Beads Ferrite Chip Beads Ferrite Chip Beads Inductor	0.15uH 600ohm@100MHz 120ohm@100MHz 600ohm@100MHz BLM18PG330SN1D BLM18AG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-H2MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210DH900LZTD0G LQG15HH2N0S02	tdk murata murata murata murata murata murata toko toko or tdk toko or tdk toko ot tdk toko dtdk toko dtdk toko	7366 2016 1005 11008		
Red R47 R48 R74 R75 R76 R779 R78 R79	82 83 84 85 86 87 88 89 90 91 92 93 94	0 0 0 0 2 2 L51 5 L61 2 L64 7 L68 L108 NR1	L52 L62 L69 L109 NR4	L63 L112 L70 NR5	L71 NR8	L72 NR9 NR12					× × × × OOO × × × × × × × × × × × × × ×	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Ferrite Chip Beads Ferrite Chip Beads EMI-FIL Inductor Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 600ohm@100MHz 600ohm@100MHz BLM18PG330SN1D BLM18AG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 10k 47k	SPM3020T-R15M-CA02 BLM15AX601SN1 BLM15BB121SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG102SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR3MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103	tdk murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko or tdk toko or	7366 2016 1005 1608 7366 2016 109100 1005 1608×4		
R131 R132 R135 R136 R146 R144 R165 R146 R166 R166 R166 R166 R166 R166 R166	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 2 L51 5 L61 2 L64 7 L68 L108 6 NR1 0 6 NR2 NR11	L52 L62 L69 L109 NR4	L63 L112 L70 NR5	L71 NR8 NR7	NR9 NR12					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
R219 R220 R221 R222 R225 R230 R231 R222 R225 R230 R231 R222 R232	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 2 5 5 6 108 108 6 NR1 0 6 NR2 NR11 1 1126 R40 R46	L52 L62 L69 L109 NR4 NR3	L63 L112 L70 NR5 NR6	NR8 NR7 R43 R74	NR10 R44 R45 R75 R76					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads EMI-FIL Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
R323 R35 R36 R37 R38 R42 R424 R423 R424 R424 R423 R424 R423 R424 R423 R424	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L62 L69 L109 NR4 NR3 R41 R47 R80 R132 R163	L63 L112 L70 NR5 NR6 R42 R48 R84 R159 R164	NR8 NR7 R43 R74 R86 R160 R166	NR10 NR12 NR10 R44 R45 R75 R130 R161 R204					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
R419	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L69 L109 NR4 NR3 R41 R47 R80 R132 R163 R215 R220 R220 R227	R42 R48 R84 R81 R159 R164 R216 R221 R221	L71 NR8 NR7 R43 R74 R86 R160 R166 R217 R222 R229	NR10 NR12 NR10 R44 R45 R76 R130 R161 R204 R218 R225 R230					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
Response	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L62 L69 L109 NR4 NR3 R41 R47 R80 R132 R215 R220 R227 R227 R232 R375	L63 L112 L70 NR5 NR6 R42 R48 R84 R159 R216 R221 R228 R233 R376	R43 R74 R86 R160 R166 R217 R229 R234 R377	NR9 NR12 NR10 R44 R45 R76 R130 R161 R204 R218 R225 R230 R235 R381					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
R33	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L69 L109 NR4 R41 R47 R80 R132 R163 R215 R220 R232 R375 R390	R42 R48 R84 R159 R216 R221 R233 R376 R391 R423 R431	R43 R74 R86 R160 R166 R217 R222 R229 R234 R377 R394 R424 R4435	NR9 NR12 NR10 R44 R45 R76 R130 R161 R204 R218 R225 R230 R235 R381 R415					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
Ress	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L69 L109 NR4 NR3 R41 R47 R80 R132 R163 R215 R220 R227 R232 R375 R390 R4430 R4430 R666	R42 R48 R84 R159 R164 R216 R221 R228 R233 R233 R431 R423 R431 R444 R607	R43 R74 R86 R166 R217 R222 R229 R234 R377 R394 R424 R424 R445 R608	NR9 NR12 NR10 R44 R45 R76 R130 R161 R204 R218 R225 R230 R235 R381 R415 R609					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
R683 R684 R685 R687 R689 R686 R680 R680 R680 R680 R680 R680 R680	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L62 L69 L109 NR4 NR3 R41 R47 R80 R132 R163 R215 R220 R227 R330 R4430 R633 R638 R645	R42 R48 R84 R159 R164 R216 R221 R228 R233 R431 R444 R607 R634 R607 R634 R646	R43 R74 R74 R74 R74 R74 R86 R160 R166 R217 R377 R394 R474 R4435 R445 R608 R608 R6640	NR9 NR12 NR10 R44 R45 R75 R130 R161 R204 R218 R225 R230 R235 R381 R415 R609 R636 R641					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
R714 R716 R777 R778 R79 R780 R810 R807 R810 R817 R818 R819 R820 R827 R820 R829 R849 R845 R851 R852 R856 R867 R8670 R870 R790 R790 R782 R790 R791 O Chip resistor O* MCR03EZPJ000 rohm 1608 R820 R829 R829 R829 R829 R829 R829 R829 R829	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L69 L109 NR4 NR3 R41 R47 R80 R132 R163 R215 R220 R430 R443 R645 R659 R659	R42 R48 R84 R159 R164 R216 R221 R228 R233 R431 R444 R607 R634 R607 R634 R646	R43 R74 R86 R160 R217 R222 R234 R377 R394 R445 R645 R645 R647 R661	R44 R45 R75 R130 R161 R204 R218 R225 R230 R235 R381 R415 R609 R636 R641 R655 R664					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
R806 R807 R810	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L69 L109 NR4 NR3 R41 R47 R80 R215 R132 R163 R215 R390 R443 R646 R633 R645 R650 R659 R668 R659 R668 R659	R42 R48 R84 R159 R164 R216 R216 R216 R233 R376 R634 R637 R646 R653	L71 NR8 NR7 R43 R74 R86 R160 R166 R217 R222 R229 R234 R424 R445 R6608 R635 R640 R647 R661 R677 R687	NR9 NR12 NR10 R44 R45 R76 R130 R161 R204 R218 R225 R230 R235 R381 R415 R609 R636 R641 R655 R664 R680 R689 R694					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
R617 R618 R619 R622 R623 R626 R627 R628 R626 R629 R643 R644 R651 R652 R656 R656 R656 R656 R656 R656 R667 R670 R670 R670 R709	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L69 L109 NR4 NR3 R41 R47 R80 R132 R163 R215 R220 R227 R232 R375 R633 R638 R645 R650 R659 R6659 R6684 R691 R705 R718 R777	R42 R48 R84 R159 R164 R216 R221 R223 R431 R423 R431 R639 R634 R639 R646 R653	L71 NR8 NR7 R43 R74 R86 R160 R166 R166 R217 R222 R229 R234 R377 R394 R424 R45 R608 R635 R445 R661 R677 R687 R693 R7691 R7761	NR9 NR12 NR10 R44 R45 R76 R130 R161 R204 R218 R225 R230 R235 R381 R415 R609 R636 R641 R655 R664 R680 R689 R694 R772 R774					x x x 0 0 0 x x x x x x x x x	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip Network resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 120ohm@100MHz BLM18PG330SN1D BLM18RG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 2.0nH 10k 47k	SPM3020T-R15M-CA02 BLM15AX6015N1 BLM15BB121SN1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG6015N1 BLM18AG602SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H-R12M DDFCUL0630-R12MB DFE201612PD-R24M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFEG10040D-1R5M MCZ1210AH900L2TD0G MCZ1210AH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ104 NCU18XH103F6SRB	tdk murata murata murata murata murata murata murata toko toko or tdk toko or tdk toko toko toko toko toko toko toko tok	7366 2016 2016 1005 1608×4 1608×4 1608×4		
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105 0 R169 O Chip resistor 0.005* PMR10EZPFU5L00 rohm 2012 1% 106 3 R380 R392 R432 X Chip resistor 0.005 PMR18EZPFU5L00 rohm 3216 1% 107 1 R417 X Chip resistor 0.005 PMR100HZPFU5L00 rohm 6432 1%	82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L52 L69 L109 NR4 R41 R47 R80 R215 R227 R232 R375 R390 R443 R646 R659 R668 R669 R659 R668 R684 R650 R659 R718 R718 R718 R718 R718 R718 R718 R718	R42 R48 R84 R159 R164 R216 R216 R216 R216 R216 R216 R23 R376 R647 R637 R647 R637 R647 R653 R648 R653 R648 R653 R648 R653	R43 R74 R86 R160 R166 R217 R222 R229 R424 R377 R394 R424 R661 R667 R667 R667 R677 R693 R712 R779	NR9 NR12 NR10 R44 R45 R75 R76 R130 R161 R204 R218 R225 R230 R235 R381 R415 R609 R636 R641 R655 R664 R680 R689 R694 R713 R772 R774 R780	R617 R622 R629 R656 R667 R708	R449 R618 R623 R643 R657 R670 R709	R453 R619 R626 R644 R662 R671 R762	R457 R459 R604 R620 R621 R627 R628 R651 R652 R663 R666 R678 R668 R790 R791	× × × × × × × × × × × × × × × × × × ×	Inductor Ferrite Chip Beads Inductor Inductor Ferrite Chip Beads Inductor Inductor Inductor Inductor Inductor Inductor Common Mode Filters Inductor Chip Network resistor Chip Network resistor Chip resistor Chip resistor Chip resistor Chip resistor Chip resistor	0.15uH 600ohm@100MHz 120ohm@100MHz 600ohm@100MHz BLM18PG330SN1D BLM18BG330SN1D BLM18AG102SN1D EMI-FIL NFW31SP107X1E4 NFE31 0.12uH 0.24uH 0.33uH 1.5uH MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G 10k 0 0 0*	SPM3020T-R15M-CA02 BLM15AX601SN1 BLM15BB121SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG601SN1 BLM18AG102SN1D NFW31SP107X1E4L NFE31PT222Z1E9L DDFCUL0630-H-R12M DDFCUL0630-H2MB DFE201612PD-R33M or TFM201610ALMAR24MT DFE201612PD-R33M or TFM201610ALMAR33MT DFE610040D-1R5M MCZ1210AH900L2TD0G MCZ1210DH900L2TD0G LQG15HH2N0S02 MNR14E0APJ103 MNR14E0APJ103 MNR14E0APJ000 MCR018XH103F6SRB MCR01MZPJ000 MCR03EZPJ000 MCR03EZPJ000	tdk murata murata murata murata murata murata toko toko or tdk toko or tdk toko or tdk rohm rohm rohm rohm rohm rohm	1005 1005 1005 1608 7366 2016 2016 109100 1005 1608x4 1608x4 1608 1005		
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March Marc	114 1				R797	R798	R799					0	Chip resistor	33	MCR01MZPJ330	rohm	1005			
14	115								D70				Chin masiatan	40.0*	MCD01MZDE40D0		1005		10/	<u> </u>
10. 1	116								R/6			×	Chip resistor	51.0	MCR01MZPF51R0	rohm	1005		1%	
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		2 R299 0	R305					 	R436	+									1%	┢─
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March Marc	132	0										0	Chip resistor	2k	MCR03EZPJ202	rohm	1608			
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1		R148	R149	R150	R182	R188	R185					_								ĺ
18 18 18 18 18 18 18 18	105				200	. 1021							Ohin wasista	A 71-14	MOD01M7D 1470		1005			
28	136	0							R173			×	Chip resistor	4.99k*	MCR01MZPF4991	rohm	1005			
1		81 R2	R4	R6	R7	R15	R25	R28		+								╟─┤	1%	<u> </u>
Part		R81	R138	R139	R140	R151														
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Part		R203	R205	R206	R207	R208														
1		R244		R249		R258														
Part																				
Column		R374	R387	R437	R440	R461	R450	R454												
The color The		R697	R730	R731	R732	R733														
No.		R740 R770	R746 R769	R763 R785	R764 R786	R765 R793	R766 R794	R767 R809												1
March Marc	139	0								R438		0	Chip resistor	10k*	MCR01MZPJ103	rohm	1005			
1.	140		R116		R118	R119						0	Chip resistor	10k	MCR03EZPJ103	rohm	1608			
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10		2		R451	R455															
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## 15. Rate Patr Rate Patr Rate Ra	148	1 R406		D010	D010	D011			2000 2000			×	Chip resistor	39k	MCR01MZPF3902	rohm	1005		1%	
10	149 1	R815	R816	R817					R822 R823			×	Chip resistor	47k	MCR01MZPJ473	rohm	1005			
18	150	R820	R821	R824								×	Chip resistor	47k	MCR03EZPJ473	rohm	1608			
10		0							R174										1%	
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167 167	454		R254	R266													1005	-		il
10	155	1 R405	R254 R715						R172										1%	
September Sept	155 156	1 R405	R254 R715						R172			0	Chip resistor	200k	MCR01MZPF2003	rohm rohm	1005 1005		1%	
	155 156 157 158	1 R405 0 3 R79 0 3 SW3	R254 R715 SW17	R393 SW28					R172			0 × 0	Chip resistor Chip resistor Dip Switch	200k 1M CHS-01A	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1	rohm rohm rohm copal	1005 1005		1%	
18 3 3 3 3 3 3 3 3 3	155 156 157 158 159 160	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4	R254 R715 SW17 SW30 SW8	R393 SW28					R172			0 × 0 0	Chip resistor Chip resistor Dip Switch Dip Switch Dip Switch	200k IM CHS-01A CHS-02A CHS-04A	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1	rohm rohm copal copal copal	1005 1005		1%	
18 18 18 18 18 18 18 18	155 156 157 158 159 160 161 162	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW1 3 SW10	R254 R715 SW17 SW30 SW8 SW2 SW11	R393 SW28 SW31 SW12	R787				R172			0 × 0 0 0	Chip resistor Chip resistor Dip Switch Dip Switch Dip Switch Dip Switch Dip Switch Dip Switch	200k 1M CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-08A or CHS-08A1	rohm rohm copal copal copal copal copal	1005 1005		1%	
10 3 5022	155 156 157 158 159 160 161 162 163 164	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW1 3 SW10 5 SW5 3 SW13	R254 R715 SW17 SW30 SW8 SW2 SW11 SW6 SW14	R393 SW28 SW31 SW12 SW7 SW16	R787				R172			0 × 0 0 0 0	Chip resistor Chip resistor Dip Switch	200k 1M CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CHS-08A or CHS-08A1 CJS-1201A CAS-120A1	rohm rohm copal copal copal copal copal copal copal copal	1005 1005		1%	
168 STP1 TP2 TP3 TP7 TP8	155 156 157 158 159 160 161 162 163 164 165	1 R405 0 0 0 3 SW3 2 SW29 2 SW4 3 SW1 3 SW10 5 SW5 3 SW13 3 SW20	R254 R715 SW17 SW30 SW8 SW2 SW11 SW6 SW14	R393 SW28 SW31 SW12 SW7 SW16	R787				R172			0 0 0 0 0 0	Chip resistor Chip resistor Dip Switch Tact Switch	200k 1M CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-08A or CHS-08A1 CJS-1201A CAS-120A1 B3U-1100PM	rohm rohm copal	1005 1005		1%	
17	155 156 157 158 159 160 161 162 163 164 165 166 167	1 R405 0 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW10 5 SW5 3 SW13 3 SW13 3 SW13 1 SW23 1 SW227	R254 R715 SW17 SW30 SW8 SW2 SW11 SW6 SW14	R393 SW28 SW31 SW12 SW7 SW16 SW22	R787	SW15			R172			0 0 0 0 0 0 0	Chip resistor Chip resistor Dip Switch Tact Switch Tact Switch Tact Switch	200k 1M CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM SWITCH(G-12AP) B3F-1000	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CHS-08A or CHS-08A1 CJS-1201A CAS-120A1 B3U-1100PM G12AP B3F-1000	rohm rohm copal domron	1005 1005		1%	
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TR27 TR28 TR29 TR20 TR20 TR20 TR2	155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW1 3 SW1 3 SW13 3 SW13 1 SW20 1 SW27 5 TH1 5 TP1 0 21 TR3	R254 R715 SW17 SW30 SW8 SW2 SW11 SW6 SW14 SW21 TH2 TP2	R393 SW28 SW31 SW12 SW7 SW16 SW22 TH3 TP3	R787 SW9 TH4 TR6	SW15 TH5 TP7 TR7	TP8		R172			0 0 0 0 0 0 0 0 0	Chip resistor Chip resistor Dip Switch Tact Switch	200k 1M CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM SWITCH(G-12AP) B3F-1000 Through Hole HK-2-G ST-4-2(UM)	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CJS-1201A CAS-120A1 B3U-1100PM G12AP B3F-1000 0.6-1.1-1.2 HK-2-G ST-4-2(UM)	rohm rohm copal common nkk omron mac8	1005 1005		1%	
173	155 156 157 158 159 160 161 162 163 164 165 166 167 168 169	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW1 3 SW1 5 SW5 3 SW13 3 SW20 1 SW27 5 TH1 5 TP1 0 21 1 TR3 1 TR3 1 TR3 1 TR16	SW17 SW30 SW8 SW2 SW11 SW6 SW14 SW21 TH2 TP2 TR4 TR10 TR20	R393 SW28 SW31 SW12 SW7 SW16 SW22 TH3 TP3 TR5 TR11 TR21	R787 SW9 TH4 TR6 TR12 TR22	SW15 TH5 TP7 TR7 TR13 TR26	TP8		R172			0 0 0 0 0 0 0 0 0	Chip resistor Chip resistor Dip Switch Tact Switch	200k 1M CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM SWITCH(G-12AP) B3F-1000 Through Hole HK-2-G ST-4-2(UM)	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CJS-1201A CAS-120A1 B3U-1100PM G12AP B3F-1000 0.6-1.1-1.2 HK-2-G ST-4-2(UM)	rohm rohm copal common nkk omron mac8	1005 1005		1%	
174 1 1 1 1 1 1 1 1 1	155 156 157 158 159 160 161 162 163 164 165 166 167 168 170 170	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW1 3 SW10 5 SW5 3 SW20 1 SW27 5 TH1 5 TP1 0 1 TR3 TR9 TR16 TR27	SW17 SW30 SW8 SW2 SW11 SW6 SW14 SW21 TH2 TP2 TR4 TR10 TR20	R393 SW28 SW31 SW12 SW7 SW16 SW22 TH3 TP3 TR5 TR11 TR21	R787 SW9 TH4 TR6 TR12 TR22	SW15 TH5 TP7 TR7 TR13 TR26	TP8		R172			0 0 0 0 0 0 0 0 0 0 0	Chip resistor Chip resistor Dip Switch Tact Switch Through Hole Test pin Test pin Test pin	200k 1M CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM SWITCH(G-12AP) B3F-1000 Through Hole HK-2-G ST-4-2(UM) RE1C001UNTCL	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CHS-08A or CHS-06A1 CJS-1201A CAS-120A1 B3U-1100PM G12AP B3F-1000 0.6-1.1-1.2 HK-2-G ST-4-2(UM) RE1C001UNTCL	rohm rohm copal comron nkk omron - mac8 mac8	1005 1005		1%	
175	155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 2	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW1 3 SW1 3 SW5 3 SW5 5 SW5 5 SW5 5 TH1 5 TP1 0 21 TR3 TR9 TR16 TR27 1 U1 9 U3	R254 R715 SW17 SW30 SW8 SW2 SW11 TH2 TP2 TR4 TR10 TR20 TR28	R393 SW28 SW31 SW12 SW7 SW16 SW22 TH3 TP3 TR5 TR11 TR21 TR29	SW9 TH4 TR6 TR12 TR22 TR30 U25	SW15 TH5 TP7 TR7 TR13 TR26 TR31	TP8		R172			0 0 0 0 0 0 0 0 0 0 0 0 0	Chip resistor Chip resistor Dip Switch Tact Switch Toggle switch Tact Switch Through Hole Test pin Test pin MOSFET	200k 1M CHS-01A CHS-01A CHS-02A CHS-04A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM SWITCH(G-12AP) B3F-1000 Through Hole HK-2-G ST-4-2(UM) RE1C001UNTCL R-CarH3SiP_pin_list(rev1.52)(B)	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-08A or CHS-06A1 CJS-1201A CAS-120A1 B3U-1100PM G12AP B3F-1000 0.6-1.1-1.2 HK-2-G ST-4-2(UM) RE1G001UNTCL	rohm rohm copal mron nkk omron - mac8 rohm	1005 1005		1%	
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183	155 156 157 158 159 160 161 162 163 164 165 166 167 170 171 2 172 173 174 175 176 177 178 179 180	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW10 5 SW5 3 SW13 3 SW23 1 SW27 5 TP1 0 21 TR3 TR9 TR16 TR27 1 9 U3 U70 1 U4 1 U5 1 U6 3 U7 0 0 1 U4	R254 R715 SW17 SW30 SW8 SW2 SW11 SW6 SW11 TH2 TP2 TR4 TR10 TR20 TR20 TR28 U43	R393 SW28 SW31 SW12 SW7 SW16 SW22 TH3 TP3 TR5 TR11 TR21 TR29 U45 U98	R787 SW9 TH4 TR6 TR12 TR22 TR30 U25 U46	TH5 TP7 TR7 TR13 TR26 TR31	TP8					O	Chip resistor Chip resistor Dip Switch Tact Switch Through Hole Test pin Test pin Test pin Test pin SOC 2-input AND Gate Regulator SPI Flash Memory I/O Expander Voltage Level Translator Regulator Clock Generator USB OTG charge pump	200k 1M CHS-01A CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM SWITCH(G-12AP) B3F-1000 Through Hole HK-2-G ST-4-2(UM) RE1C001UNTCL R-CarH3SiP_pin_list(rev1.52)(B) HD74LV1GT08A TEST_IC \$25F\$128\$AGMFV10 PCA9654EDTR2G \$N74AVC4T245PW ADM7172ACPZ* 9FGV0841AKILF MAX3355EEUD	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CHS-08A or CHS-08A1 CJS-1201A CAS-120A1 B3U-1100PM G12AP B3F-1000 0.6-1.1-1.2 HK-2-G ST-4-2(UM) RE1G001UNTCL R-CarH3-SIP or R-CarM3-SiP HD74LV1GT08ACME LT3021ES8#PBF S25FS128SAGMFV10 or S25FS128SAGMF101 or S25FS128SAGMF101 PCA9654EDTR2G SN74AVC4T245PW ADM7172ACPZ 9FGV0841AKILF MAX3355EEUD	rohm rohm rohm copal copal copal copal copal copal copal copal copal ropal copal cop	1005 1005		1%	
185	155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 2 172 173 174 175 176 177 178 179 180 180 181	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW1 3 SW1 3 SW1 5 SW5 3 SW13 3 SW27 5 TH1 5 TH1 0 U1 1 U1 1 U5 1 U6 3 U7 0 U1 1 U1 1 U5 1 U1 5 U13	R254 R715 SW17 SW30 SW8 SW2 SW11 SW6 SW14 SW21 TH2 TP2 TR4 TR10 TR20 TR28 U43	R393 SW28 SW31 SW12 SW7 SW16 SW22 TH3 TP3 TR5 TR11 TR21 TR29 U45 U98	R787 SW9 TH4 TR6 TR12 TR22 TR30 U25 U46	TH5 TP7 TR7 TR13 TR26 TR31	TP8					× × × × × × × × × × × × × × × × × × ×	Chip resistor Chip resistor Dip Switch Tact Switch	200k IM CHS-01A CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM SWITCH(G-12AP) B3F-1000 Through Hole HK-2-G ST-4-2(UM) RE1C001UNTCL R-CarH3SiP_pin_list(rev1.52)(B) HD74LV1GT08A TEST_IC S25FS128SAGMFV10 PCA9654EDTR2G SN74AVC4T245PW ADM7172ACPZ* 9FGV0841AKILF MAX3355EEUD BD82065FVJ	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CJS-1201A CAS-120A1 B3U-1100PM G12AP B3F-1000 0.6-1.1-1.2 HK-2-G ST-4-2UM) RE1C001UNTCL R-CarH3-SIP or R-CarM3-SiP HD74LV1GT08ACME LT3021ES8#PBF S25FS128SAGMFV10 or S25FS128SAGMFV10 or S25FS128SAGMF1101 or	rohm rohm copal rohm mac8 mac8 rohm renesas renesas ineartechnology Cypress (Spansion) on semiconductor ti analog devices idt maxim rohm	1005 1005		1%	
187 1	155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 2 172 173 174 175 176 177 178 179 180 181 182 183	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW1 3 SW1 5 SW5 3 SW13 3 SW20 1 SW27 5 TH1 5 TP1 0 U1 1 U1 1 U5 1 U6 3 U7 1 U4 1 U5 1 U6 3 U7 0 U7 1 U1 1 U12 5 U13 2 U19 1 U21	R254 R715 SW17 SW30 SW8 SW2 SW11 SW6 SW14 SW21 TH2 TP2 TR4 TR10 TR20 TR28 U43	R393 SW28 SW31 SW12 SW7 SW16 SW22 TH3 TP3 TR5 TR11 TR21 TR29 U45 U98	R787 SW9 TH4 TR6 TR12 TR22 TR30 U25 U46	TH5 TP7 TR7 TR13 TR26 TR31	TP8					N	Chip resistor Chip resistor Dip Switch Tact Switch Through Hole Test pin Test pin MOSFET SOC 2-input AND Gate Regulator SPI Flash Memory I/O Expander Voltage Level Translator Regulator Clock Generator USB OTG charge pump High side switch IC Regulator Regulator Regulator	200k 1M CHS-01A CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM SWITCH(G-12AP) B3F-1000 Through Hole HK-2-G ST-4-2(UM) RE1C001UNTCL R-CarH3SiP_pin_list(rev1.52)(B) HD74LV1GT08A TEST_IC S25FS128SAGMFV10 PCA9654EDTR2G SN74AVC4T245PW ADM7172ACPZ* 9FGV0841AKILF MAX3355EEUD BD82065FVJ MIC94091YC6 ADP3339AKCZ-3.3-R7	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CHS-08A or CHS-08A1 CJS-1201A CAS-120A1 B3U-1100PM G12AP B3F-1000 0.6-1.1-1.2 HK-2-G ST-4-2(UM) RE1C001UNTCL R-CarH3-SIP or R-CarM3-SiP HD74LV1GT08ACME LT3021ES8#PBF S25FS128SAGMF101 or S25FS128SAGMF101 or S25FS128SAGMF101 PCA9654EDTR2G SNT4AVCAT245PW ADM7172ACPZ 9FGV0841AKILF MAX3355EEUD BD82065FVJ MIC94091YC6 ADP3339AKCZ-3.3-R7	rohm rohm copal co	1005 1005		1%	
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COURT AND HOUSE IN THE PROPERTY HOUSE AND HOUS	155 156 157 158 159 160 161 161 162 163 164 165 166 167 168 177 171 2 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 191 192 193 194 195 196 197 198 199 200 201 202 203	1 R405 0 3 R79 0 3 SW3 2 SW29 2 SW4 3 SW10 5 SW5 3 SW13 3 SW10 5 SW5 7 STP1 0 P1 0 P1 1 U1 1 U5 1 U6 3 U7 0 U1 1 U1	R254 R715 SW17 SW30 SW8 SW21 SW6 SW11 TH2 TP2 TR4 TR10 TR20 TR28 U43 U43 U44 U44	R393 SW28 SW31 SW12 SW7 SW16 SW22 TH3 TP3 TR5 TR11 TR21 U45 U98 U99	R787 SW9 TH4 TR6 TR12 TR22 TR30 U17	TH5 TP7 TR7 TR13 TR26 TR31	TP8					N	Chip resistor Chip resistor Chip pesistor Dip Switch Tact Switch Through Hole Test pin Test pin Test pin MOSFET SOC 2-input AND Gate Regulator SPI Flash Memory I/O Expander Voltage Level Translator Regulator Clock Generator USB OTG charge pump High side switch IC High side switch IC Regulator EMMC Video DAC HDMI Companion Chip PWM to VOUT DAC Regulator HOMI Receiver Giga Ethernet Transceiver Voltage Level Translator 2-input AND Gate Regulator Audio CODEC Audio Amp Clock Synthesizer USB TO UART BRIDGE Dual Buck Controllers Transistor MOSFET EEPROM CUrrent-Sense Program Clock Generator	200k 1M CHS-01A CHS-01A CHS-02A CHS-04A CHS-06A CHS-08A CJS-1201A CAS-120A1 B3U-1100PM SWITCH(G-12AP) B3F-1000 Through Hole HK-2-G ST-4-2(UM) RE1C001UNTCL R-CarH3SiP pin list(rev1.52)(B) HD74LV1GT08A TEST_IC S25FS128SAGMFV10 PCA9654EDTR2G SN74AVC4T245PW ADM7172ACP2* 9FGV0841AKILF MAX3355EEU BD82065FVJ MIC94091YC6 ADP3339AKCZ-3.3-R7 KLMBG4GESD-B04P ADV7123KSTZ140 TPD12S016PWR LTC2644CMS-L8 ADP3338AKCZ-3.3R7 ADV7482WBBCZ KS29031RNX TXS0102DCUT HD74LV1G08A ADP1706ARDZ-1.2-R7 AK4613VQ MAX9812LEXT+T CS2000-CP CP2102 MAX16933 TPC8048-H NP35N04YLG BR24T01FVM-W MAX9611AUB+ 5P49V5923A	MCR01MZPF2003 MCR01MZPF1004 CHS-01A or CHS-01A1 CHS-02A or CHS-02A1 CHS-02A or CHS-02A1 CHS-04A or CHS-04A1 CHS-06A or CHS-06A1 CHS-06A or CHS-06A1 CHS-06A or CHS-08A1 CJS-1201A CAS-120A1 B3U-1100PM G12AP B3F-1000 0.6-1.1-1.2 HK-2-G ST-4-2UM) RE1C001UNTCL R-CarH3-SIP or R-CarM3-SiP HD74LV1GT08ACME LT3021ES8#PBF S25FS128SAGMF1101 or S25FS128SAGMF1101 or S25FS128SAGMF1101 or S25FS128SAGMF101 or S25FS128SAGMF1101 or S25FS128SAGMF101 or S25FS128SAGMF1101 or S25FS128SAGMF	rohm rohm rohm copal cop	1005 1005		1%	

7 1	1 X1						×	crystal oscillator	NZ2520SB[14.7456MHz/50ppm]	NZ2520SB-14.7456MHz-RNA3043A or SG-210SCBA 14.745600 MHz L	ndk or			
8 0							×	crystal oscillator	NX2016SA[16.6666MHz/10pF/15ppm]*	NX2016SA-16.6666MHz-CHP-CZS-4	seiko epson ndk			
9 0	,						×	crystal oscillator	NZ2520SB[16.6666MHz/50ppm]	NZ2520SH-16.6666MHz-RNA3048B or SG-210SEBA	ndk or seiko epson			
0 1	1 X5						×	crystal oscillator	NZ2520SB[32.768kHz/50ppm]	NZ2520SB-32.768kHz-RNA3045A or KC2520M32K7680CM3E00	ndk or kyocera			
1 1	1 X6						×	crystal oscillator	NX2016SA-[50.0000MHz/10pF/15ppm]	NX2016SA-50MHz-CHP-CZS-38 or FA-2016AA[50MHz/10PF/15ppm]	ndk or seiko epson			
2 3	3 X7 X9 X23						×	crystal oscillator	NX2016SA[25MHz/20pF/15ppm]	NX2016SA-25MHz-EXS00A-CS08742 or FA2016AA[25MHz/20PF/15ppm]	ndk or seiko epson			
3 1	1 X8						×		NX2016SA[28.63636MHz/30pF/15ppm]	NX2016SA-28.63636MHz-EXS00A- CS08741	ndk or			
3 1	^0						^	crystal oscillator	NAZ0103A[Z0.03030MHZ/30pF/13ppH]	or FA-2016AA [28.63636MHz/30PF/15ppm]	seiko epson			
										NZ2520SB-125MHz-RNA3035C or MC2520K125.000C16ESH	ndk or			
4 1	1 X10						×	crystal oscillator	NZ2520SB[125MHz/50ppm]	or SG-8003CG 125.000000MHz SC B	kyocera or seiko epson			
5 1	1 X11						×	crystal oscillator	NZ2520SB[22.5792MHz/50ppm]	NZ2520SB-22.5792MHz-RNA3046A or SG-210SCBA 22.579200 MHz Y	ndk or seiko epson			
6 1	1 X12						×	crystal oscillator	NX2016SA[24.576MHz/20pF/15ppm]	NX2016SA-24.576MHz-EXS00A- CS08743	ndk or			
7 2	2 X21 X22						×	crystal oscillato	NZ2520SB[33MHz/50ppm]	NZ2520SB-33MHz-RNA3047A	seiko epson ndk or			
8 3	3 D37 D38 D39						×	Zener Diode	DZ2S033M0L	or SG-210SEBA 33.000000 MHz L DZ2S033M0L	seiko epson panasonic			
9 12	R642 R648 R654 R660 R665						×	Chip resistor	24.9	MCR01MZPF24R9	rohm	1005		1%
0 5	R724 R725 R726 R727 R728 5 U73 U74 U75 U76 U77	R729					×	SWITCH	PI3PCIE3212ZBE	PI3PCIE3212ZBE	pericom			
1 – 2 1	- SKT1						×	U1用ソケット用穴 Housing clamp	SIP_SOCKET_HOLE (LC-04A)	- LCC-04	- ist			
3 1 4 5	1 (JP2) 5 L75 L76 L4 L5	L6					O ×	Jumper Socket Ferrite Chip Beads	(HWP-3P-G) 600ohm@100MHz	JS-1 BLM15AX601SZ1D	mac8 murata	1005		
5 10	D L78 L79 L80 L81 L82 L84 L85 L86 L87	L83					×	Ferrite Chip Beads	BLM18PG330SH1D	BLM18PG330SH1D	murata	1000		
6 14	4 L88 L89 L90 L91 L92	L93					×	Ferrite Chip Beads	BLM18AG102SH1D	BLM18AG102SH1D	murata			
7 0	L94 L95 L96 L97 L98 L100 L102	L99												
1 1	1 L73						×	Power Inductors Inductor	5.6uH 120ohm@100MHz	NS12575T5R6NN BLM15BB121SH1D	taiyo yuden murata	1005		
3	1 L77						×	Inductor Chip resistor	600ohm@100MHz 30k	BLM18AG601SH1D MCR01MZPF3002	murata rohm	1608 1005		1%
1 3	1 U79						×	2-Wire Bus Buffers Diodes	LTC4313CMS8-1#PBF RB520SM-30FH	LTC4313CMS8-1#PBF RB520SM-30FHT2R	linear technology rohm			
1	1 TP9 1 U78						×	Terminal Pin Giga Ethernet Transceiver	HW-1-G KSZ9031RNXVB	HW-1-G KSZ9031RNXVB	mac8 microchip			
2	2 CN34 CN38						×	CPU_FAN CN Shottky Barrier Diode	22-04-1031 TCH20A15	22-04-1031 TCH20A15	molex nihon inter elect			
0				C896 C897 C935 C937			×	chip capacitor	1uF* 0.068uF	GCM188R71C105KA49 GCM155R71C683KA55	murata murata	1608 1005	16V 16V	
0				R750 R751 R773 R775			×	Chip resistor	1k*	MCR03EZPJ102	rohm	1608	100	
1	1 VR2						×	AC Adapter CN Resistor	PJ-063AH 100k	PJ-063AH ST-2TA104	cui inc copal			20%
3	1 CN36						×	AC Adapter CN Ferrite Chip Beads	PJ-063AH BLM18KG260TZ1	PJ-063AH or PJ-063BH BLM18KG260TZ1	cui inc murata	1608		
0	2 L104 L106			U81			×	EMIFIL IC	NFM31HK223R1H3 TestIC	NFM31HK223R1H3 TestIC	murata -	3216		
2	2 C878 C877 1 R398						×	chip capacitor Chip resistor	4.7uF 49.9k	CGA3E1X5R0J475KT MCR01MZPF4992	tdk rohm	1608 1005	6.3V	1%
	2 U82 U83 U534 C535 C536 C537						×	Audio Amp chip capacitor	MAX9813LEKA+T	MAX9813LEKA+T GRT32ER60J107ME13	maxim murata	3225	6.3V	
0	C543 C942 C943 C944 C945						×	chip capacitor	GCM188R71C104KA37	GCM188R71C104KA37	murata	1608	16V	
2	2 U84 U85						×	MOSFET	IPG20N04S4L-08	IPG20N04S4L=08 or sqj912aep GCM32ER70J476KE19	Infineon or vishay			
0				C947			×	chip capacitor	47uF* 10uF	GCM21BC71C106KE36	murata murata	3225 2012	6.3V 16V	
0	1 U86						×	Level Translator Chip resistor	LSF0101DRYR 100	LSF0101DRYR MCR01MZPF1000	rohm	1005		1%
	D						×	chip capacitor Diode	4.7uF AD1580ARTZ	GRM155R61A475MEAA AD1580ARTZ	murata analog devices	1005	10V	
	2 VR3 VR4 1 R425						×	Resistor Chip resistor	20k 820	ST-2TA203 MCR01MZPF8200	copal rohm	1005		20% 1%
0	2 CN39 CN40			R426			×	Resistor Audio IN/OUT CN	10k SJ-3523-SMT	MCR01MZPF1002 SJ-3523-SMT	rohm cui inc	1005		1%
0	,						×	Chip resistor	62	MCR01MZPJ620	rohm	1005		
	7 U87 U88 U90 U91 U93 2 U89 U92	U94	U95				×	ESD Protection Device HDMI Companion Chip	TPD4E05U06DQAR TPD5S116YFFR	TPD4E05U06DQAR TPD5S116YFFR	ti			
	1 U97						×	PCIE Switch	MAX488BETI+	MAX488BETI+	maxim			
							×	crystal oscillator	NX2016SA[16.66MHz/10pF/15ppm]*	NX2016SA-16.66MHz-CHP-CZS-41 NZ2016SH-16.66MHz-NSC5021A	ndk or			
0							×	crystal oscillator	NZ2016SH[16.66MHz/50ppm]	or SG210SEBA 16.6600MHz or MC2520K16.6600C1XESX	seiko epson or kyocera			
0				GND1 GND2 GND3 GND4			×	GND Connector chip capacitor	GND 0.015uF	GND GCM155R71E153KA55	– murata	1005	25V	
0							×	chip capacitor chip capacitor	0.033uF 0.068uF	GCM155R71E333KA55 GCM155R71C683KA55	murata murata	1005 1005	25V 25V	
0	2			Х3			×	crystal oscillator	NX2016SA[16.64MHz/10pF/15ppm]*	NX2016SA-16.64MHz-CHP-CZS-53 NZ2016SH-16.64MHz-RNA5013C	ndk ndk or			
1	1 X4						×	crystal oscillator	NZ2016SH[16.64MHz/45ppm]	or SG2016CAA 16.64MHz TTJA or MC2016K16.6400C16ESH	seiko epson or kyocera			
1	1 L110						×	Inductor	0.15uH	SPM6545VT-R15M-D	tdk	7065		
2	1 L111 2 L55 L56						×	Inductor Inductor	0.15uH 0.24uH	SPM5030VT-R15M-D TFM201610ALMAR24MTAA	tdk tdk	5550 2016		
1	2 L57 L58						×	Inductor Program Clock Generator	0.33uH 5P49V6901A	TFM201610ALMAR33MTAA 5P49V6901A525NLGI	tdk idt	2016		
18	8 C203 C209 C210 C867 C869 C871 C173 C174 C175 C177			C559 C563 C568	C572		×	chip capacitor	0.01uF	GCM155R71H103KA55	murata	1005	50V	
Δ	C180 C195 C866 C883 C880 4 C211 C215 C865 C868	C882	C885 C886				×	chip capacitor	0.015uF	GCM155R71H153KA55	murata	1005	50V	
9	9 C212 C214 C167 C200 C870 C888 C890 C891 C892 C545						×	chip capacitor	0.022uF	GCM155R71H223KA55	murata	1005	50V	
	8 C205 C216 C162 C884 C889 C893 C285 C286						×	chip capacitor	0.047uF	GCM155R71H473KE02	murata	1005	50V	
8	1 C206						×	chip capacitor	0.068uF	GCM155R71H683KE02	murata	1005	50V	
8		C543	+ +	C946 C966			×	chip capacitor chip capacitor	2.2uF 47uF	GCM188R70J225KE22 GCM32ER70J476ME19	murata murata	1608 3225	6.3V 6.3V	
1	3 C862 C863 C876 4 C533 C534 C535 C536 C537	1												
1	3 C862 C863 C876 C537 C536 C537 C546 C547 C548 C549 C550 C560 C564 C573 C837													
1	3 C862 C863 C876 4 C533 C534 C535 C536 C537					1								
1	3 C862 C863 C876 C537 C536 C537 C546 C547 C548 C549 C550 C560 C564 C573 C837 C838 C839 C840 C841 C842 C843 C844 C900 C928 C942 C943 C944 C945 C959 C960													
1	3 C862 C863 C876 4 C533 C534 C535 C536 C537			D45 D46 FH1 FH2 FH3 FH4	EUE		×	Schottky Barrier Diode	RSX501LAM20	RSX501LAM20	rohm	5026		
1 3 34	3 C862 C863 C876			D45 D46 EH1 EH2 EH3 EH4 EH6 EH7 EH8	EH5		×	Through Hole	HOLE_E_4.0	HOLE_E_4.0_6.0_8.0	-		16)/	
1 3 34 0 0 0	3 C862 C863 C876			EH1 EH2 EH3 EH4	EH5		×	Through Hole chip capacitor Chip resistor	HOLE_E_4.0 1uF 510	HOLE_E_4.0_6.0_8.0 GCM219R71C105KA37 MCR01MZPF5100	murata	2012 1005	16V	1%
1 33 34 0 0 0	3 C862 C863 C876			EH1 EH2 EH3 EH4	EH5		×	Through Hole chip capacitor	HOLE_E_4.0	HOLE_E_4.0_6.0_8.0 GCM219R71C105KA37	murata	2012		1% 1%

Item changed