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Seemann	Härter	Kraft	LP BEST TSS SG G4 433MHZ	gehört zu Sach-Nr.: belongs to p/n.:		1531.300.121.xx.xx
18.05.2009	18.05.2009	18.05.2009	PBA TSS ECU G4 433MHZ	Seite (page): 2 / 6		DIN A4

Anmerkung: Es ist nicht erlaubt ohne Rücksprache und schriftliche Genehmigung durch die BERU Electronics GmbH den Hersteller zu wechseln!

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1	2	3	4	5	6	7	8	9	10	11	12	13
Bezeichnung (designation)	Anzahl (amount)	Typ (type)	Benennung (denomination)	Spannung (voltage)	Toleranz (tolerance)	Material (material)	Gehäuse (package)	Klasse (class)	Hersteller (manufacturer)	Hersteller Bestell Nr. (man. ordering code)	Q-Standard (Q-standard)	BERU Sach-Nr. (BERU part no.)
E1	1		LP UNBEST TSS SG G4 VT			FR-4		A	Vastbright Technology		IPC-A-600 class 2	2531.394.121.04.01
	0		LP UNBEST TSS SG G4 FUB			FR-4		A	Fuba		IPC-A-600 class 2	2531.394.121.04.02
	0		LP UNBEST TSS SG G4 CML			FR-4		A	CML		IPC-A-600 class 2	2531.394.121.04.03
E2	1		Schirmbecher Rahmen BMIS-209-F Laird			Steel	Zeichnung	B	Laird Technologies	BMIS-209-F		2532.120.006.00.00
												-
C3	1	1P5	CHIP-C 1P5/0P1/50V/NP0/0603 EPC	50V	0P1	NP0	0603	B	Epcos	B37930K5010B570	AEC-Q200	2519.050.003.00.01
	0	1P5	CHIP-C 1P5/0P1/50V/NP0/0603 MUR	50V	0P1	NP0	0603		Murata	GCM1885C1H1R5BZ13J	AEC-Q200	2519.050.003.00.02
C4, C100, C105	3	3P3	CHIP-C 3P3/0P1/50V/NP0/0603 MUR	50V	0P1	NP0	0603	B	Murata	GCM1885C1H3R3BZ13J	AEC-Q200	2519.050.043.00.01
C5, C6, C33	3	220P	CHIP-C 220P/5%/50V/NP0/0603 MUR	50V	5%	NP0	0603	B	Murata	GCM1885C1H221JA16J	AEC-Q200	2519.050.071.00.01
	0	220P	CHIP-C 220P/5%/50V/NP0/0603 AVX	50V	5%	NP0	0603	B	AVX	06035A221J4T4A	AEC-Q200	2519.050.071.00.02
C7, C9, C12, C13, C15, C19, C28, C53, C54, C58, C64, C103	12	100N	CHIP-C 100N/10%/50V/X7R/0603 MUR	50V	10%	X7R	0603	B	Murata	GCM188R71H104KA57D	AEC-Q200	2519.050.058.00.01
	0	100N	CHIP-C 100N/10%/50V/X7R/0603 TDK	50V	10%	X7R	0603	B	TDK	C1608X7R1H104KT-AUTO	AEC-Q200	2519.050.058.00.02
C8, C16, C20, C35, C49, C62, C63	0	10N	CHIP-C 10N/10%/50V/X7R/0603 AVX	50V	10%	X7R	0603	B	AVX	06035C103K4T4A	AEC-Q200	2519.050.006.00.02
	7	10N	CHIP-C 10N/10%/50V/X7R/0603 MUR	50V	10%	X7R	0603	B	Murata	GCM188R71H103KA37D	AEC-Q200	2519.050.006.00.03
C10	1	120P	CHIP-C 120P/5%/50V/NP0/0603 MUR	50V	5%	NP0	0603	B	Murata	GCM1885C1H121JA16D	AEC-Q200	2519.050.087.00.01
	0	120P	CHIP-C 120P/5%/50V/NP0/0603 AVX	50V	5%	NP0	0603	B	AVX	06035A121J4T4A	AEC-Q200	2519.050.087.00.02
C14, C34	0	2N2	CHIP-C 2N2/10%/50V/X7R/0603 AVX	50V	10%	X7R	0603	B	AVX	06035C222K4T4A	AEC-Q200	2519.050.019.00.02
	2	2N2	CHIP-C 2N2/10%/50V/X7R/0603 MUR	50V	10%	X7R	0603	B	Murata	GCM188R71H222KA37D	AEC-Q200	2519.050.019.00.03
C21	1	1N5	CHIP-C 1N5/10%/50V/X7R/0603 MUR	50V	10%	X7R	0603	B	Murata	GCM188R71H152KA37J	AEC-Q200	2519.050.065.00.01
	0	1N5	CHIP-C 1N5/10%/50V/X7R/0603 AVX	50V	10%	X7R	0603	B	AVX	06035C152K4T4A	AEC-Q200	2519.050.065.00.02
C22	1	150P	CHIP-C 150P/5%/50V/NP0/0603 AVX	50V	5%	NP0	0603	B	AVX	06035A151J4T4A	AEC-Q200	2519.050.028.00.01
	0	150P	CHIP-C 150P/5%/50V/NP0/0603 MUR	50V	5%	NP0	0603	B	Murata	GCM1885C1H151JA16J	AEC-Q200	2519.050.028.00.03
C23, C24, C26	3	33N	CHIP-C 33N/10%/50V/X7R/0603 MUR	50V	10%	X7R	0603	B	Murata	GCM188R71H333KA55J	AEC-Q200	2519.050.066.00.01
	0	33N	CHIP-C 33N/10%/50V/X7R/0603 AVX	50V	10%	X7R	0603	B	AVX	06035C333K4T4A	AEC-Q200	2519.050.066.00.02
C25, C29, C38, C39, C40, C41, C42	0	1N	CHIP-C 1N/10%/50V/X7R/0603 AVX	50V	10%	X7R	0603	B	AVX	06035C102K4T4A	AEC-Q200	2519.050.017.00.02
	7	1N	CHIP-C 1N/10%/50V/X7R/0603 MUR	50V	10%	X7R	0603	B	Murata	GCM188R71H102KA37D	AEC-Q200	2519.050.017.00.03
C30, C31, C45, C61	4	470P	CHIP-C 470P/5%/50V/NP0/0603 AVX	50V	5%	NP0	0603	B	AVX	06035A470J4T4A	AEC-Q200	2519.050.009.00.02
	0	470P	CHIP-C 470P/5%/50V/NP0/0603 MUR	50V	5%	NP0	0603	B	Murata	GCM1885C1H471JA16J	AEC-Q200	2519.050.009.00.03
C32, C48	0	4N7	CHIP-C 4N7/10%/50V/X7R/0603 AVX	50V	10%	X7R	0603	B	AVX	06035C472K4T4A	AEC-Q200	2519.050.012.00.02
	2	4N7	CHIP-C 4N7/10%/50V/X7R/0603 MUR	50V	10%	X7R	0603	B	Murata	GCM188R71H472KA37J	AEC-Q200	2519.050.012.00.03
C36, C37, C104, C110, C115, C118, C119, C120	0	100P	CHIP-C 100P/5%/50V/NP0/0603 AVX	50V	5%	NP0	0603	B	AVX	06035A101J4T4A	AEC-Q200	2519.050.014.00.02
	8	100P	CHIP-C 100P/5%/50V/NP0/0603 MUR	50V	5%	NP0	0603	B	Murata	GCM1885C1H101JA16D	AEC-Q200	2519.050.014.00.03

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L1, L200	2	33N	CHIP-IND 33N/5%/0603/LL TKO		5%	Keramik	0603	B	Toko	LL1608-FSL33NJ	AEC-Q200	2519.140.019.00.01
L2	1	100U	SMD-CAN-CHOKE 2X100U/0A15/B82789C EPC	80V	-30/+50%	Ferrit	1812	B	Epcos	B82789C0104N002		2519.160.019.00.01
L6, L16	2	15N	CHIP-IND 15N/5%/0603/LL TKO		5%	Keramik	0603	B	Toko	LL1608-FSL15NJ	AEC-Q200	2519.140.049.00.01
L9	1	742 792 02	SMD-FERRIT 74279202/0805 WE			Ferrit	0805	B	Würth Elektronik	742 792 02		2519.150.002.00.01
L10	1	8N2	CHIP-IND 8N2/5%/0603/LQG18H MUR		5%	Multilayer	0603	B	Murata	LQG18HN8N2J00J		2519.140.022.00.01
L14	1	39N	CHIP-IND 39N/5%/0603/LL TKO		5%	Keramik	0603	B	Toko	LL1608-FSL39NJ	AEC-Q200	2519.140.018.00.01
												-
Q1, Q2	2	2N7002K	SMD-N-MOSFET 2N7002K/SOT23 VIS	Vds=60V		Silizium	SOT23	B	Vishay	2N7002K-T1-E3		2519.100.005.00.01
	0	2N7002K	SMD-N-MOSFET 2N7002K/SOT23 NXP	Vds=60V		Silizium	SOT23	B	NXP Semiconductor	9340 579 74215		2519.100.005.00.02
Q3, Q5	2	FDC6506P	SMD-P/P-POW-MOSFET FDC6506P/SOT6 FAI	30V		Silizium	SOT6	B	Fairchild Semiconductor	FDC6506P		2519.100.012.00.01
Q4, Q6	2	IMX1	SMD-NPN/NPN-TR IMX1/SMT6 ROH	50V		Silizium	SMT6	B	Rohm	IMX1T110		2519.090.013.00.01
												-
R1, R4, R33, R42	4	10K	CHIP-R 10K/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-1002-FK	AEC-Q200	2519.020.054.00.01
	0	10K	CHIP-R 10K/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-1010KL	AEC-Q200	2519.020.054.00.02
R2, R8	2	100K	CHIP-R 100K/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-1003-FK	AEC-Q200	2519.020.063.00.01
	0	100K	CHIP-R 100K/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-10100KL	AEC-Q200	2519.020.063.00.02
R3	1	4K7	CHIP-R 4K7/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-4701-FK	AEC-Q200	2519.020.052.00.01
	0	4K7	CHIP-R 4K7/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-134K7L	AEC-Q200	2519.020.052.00.02
R5, R7, R13, R14, R17, R21, R22, R23, R24, R28, R45, R47, R48, R52	14	47K	CHIP-R 47K/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-4702-FL	AEC-Q200	2519.020.061.00.01
	0	47K	CHIP-R 47K/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-1347KL	AEC-Q200	2519.020.061.00.02
R6, R31, R34	3	0R	CHIP-R 0R/0603 ASJ	50V	<0.05R	Dickfilm	0603	B	ASJ	CR16-000-ZK	AEC-Q200	2519.020.021.00.01
	0	0R	CHIP-R 0R/0603 YAG	50V	<0.05R	Dickfilm	0603	B	Yageo	RC0603JR-130RL	AEC-Q200	2519.020.021.00.02
R9	1	5K1	CHIP-R 5K1/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-5101-FL	AEC-Q200	2519.020.099.00.01
	0	5K1	CHIP-R 5K1/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-135K1L	AEC-Q200	2519.020.099.00.02
R10	1	82K	CHIP-R 82K/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-8202-FK	AEC-Q200	2519.020.081.00.01
	0	82K	CHIP-R 82K/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-1382KL	AEC-Q200	2519.020.081.00.02
R11	1	5K6	CHIP-R 5K6/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-5601-FK	AEC-Q200	2519.020.127.00.01
	0	5K6	CHIP-R 5K6/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-105K6L	AEC-Q200	2519.020.127.00.02
R12	1	39K	CHIP-R 39K/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-3902-FK	AEC-Q200	2519.020.076.00.01
	0	39K	CHIP-R 39K/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-1339KL	AEC-Q200	2519.020.076.00.02
R15	1	150R	CHIP-R 150R/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-1500-FK	AEC-Q200	2519.020.043.00.01
	0	150R	CHIP-R 150R/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-13150RL	AEC-Q200	2519.020.043.00.02
R19, R61	2	56K	CHIP-R 56K/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-5602-FL	AEC-Q200	2519.020.096.00.01
	0	56K	CHIP-R 56K/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-1356KL	AEC-Q200	2519.020.096.00.02
R25	1	8K2	CHIP-R 8K2/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR 16 -8201 F L	AEC-Q200	2519.020.118.00.01
	0	8K2	CHIP-R 8K2/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-138K2L	AEC-Q200	2519.020.118.00.02
R26	1	3K9	CHIP-R 3K9/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-3901-FK	AEC-Q200	2519.020.079.00.01
	0	3K9	CHIP-R 3K9/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-103K9L	AEC-Q200	2519.020.079.00.02
R27, R35, R44, R60, R63	5	1K	CHIP-R 1K/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-1001-FK	AEC-Q200	2519.020.072.00.01
	0	1K	CHIP-R 1K/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-131K0L	AEC-Q200	2519.020.072.00.02

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R29, R30	2	4K64	CHIP-R 4K64/1%/1206 ASJ	200V	1%	Dickfilm	1206	B	ASJ	CR32-4641-FL	AEC-Q200	2519.020.183.00.01
	0	4K64	CHIP-R 4K64/1%/1206 YAG	200V	1%	Dickfilm	1206	B	Yageo	RC1206FR-104K64L	AEC-Q200	2519.020.183.00.02
R36	1	820R	CHIP-R 820R/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-8200-FK	AEC-Q200	2519.020.125.00.01
	0	820R	CHIP-R 820R/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-10820RL	AEC-Q200	2519.020.125.00.02
R39, R43	2	75R	CHIP-R 75R/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-75R0-FK	AEC-Q200	2519.020.024.00.01
	0	75R	CHIP-R 75R/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-1375RL	AEC-Q200	2519.020.024.00.02
R40, R41	2	1R	CHIP-R 1R0/1%/0805 ASJ	50V	1%	Dickfilm	0805	B	ASJ	CR21-1R0-FL	AEC-Q200	2519.020.153.00.01
	0	1R	CHIP-R 1R0/1%/0805 YAG	50V	1%	Dickfilm	0805	B	Yageo	RC0805FR-101RL	AEC-Q200	2519.020.153.00.02
R46, R62	2	12K	CHIP-R 12K/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-1202-FL	AEC-Q200	2519.020.055.00.01
	0	12K	CHIP-R 12K/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-1312KL	AEC-Q200	2519.020.055.00.02
R50	1	3R3	CHIP-R 3R3/5%/1206/CRCW VIS	200V	5%	Dickfilm	1206	B	Vishay	CRCW12063R30JNEAIF		2519.020.192.00.01
R51	1	2K7	CHIP-R 2K7/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-2701-FK	AEC-Q200	2519.020.050.00.01
	0	2K7	CHIP-R 2K7/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-132K7L	AEC-Q200	2519.020.050.00.02
R54	1	15K	CHIP-R 15K/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-1502-FL	AEC-Q200	2519.020.056.00.01
	0	15K	CHIP-R 15K/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-1315KL	AEC-Q200	2519.020.056.00.02
R55, R56, R57	3	3K3	CHIP-R 3K3/1%/0805 ASJ	150V	1%	Dickfilm	0805	B	ASJ	CR21-3301-FL	AEC-Q200	2519.020.098.00.01
	0	3K3	CHIP-R 3K3/1%/0805 YAG	150V	1%	Dickfilm	0805	B	Yageo	RC0805FR-133K3L	AEC-Q200	2519.020.098.00.02
R64	1	3K3	CHIP-R 3K3/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-3301-FL	AEC-Q200	2519.020.051.00.01
	0	3K3	CHIP-R 3K3/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-133K3L	AEC-Q200	2519.020.051.00.02
R67	1	51R	CHIP-R 51R/1%/0805 ASJ	150V	1%	Dickfilm	0805	B	ASJ	CR21-51R0-FL	AEC-Q200	2519.020.097.00.01
	0	51R	CHIP-R 51R/1%/0805 YAG	150V	1%	Dickfilm	0805	B	Yageo	RC0805FR-1351RL	AEC-Q200	2519.020.097.00.02
R70	1	51R	CHIP-R 51R/1%/0603 ASJ	50V	1%	Dickfilm	0603	B	ASJ	CR16-51R0-FK	AEC-Q200	2519.020.105.00.01
	0	51R	CHIP-R 51R/1%/0603 YAG	50V	1%	Dickfilm	0603	B	Yageo	RC0603FR-1351RL	AEC-Q200	2519.020.105.00.02
R71, R111, R112	3	0R	CHIP-R 0R/0402 ASJ	50V	<0.05R	Dickfilm	0402	B	ASJ	CR10-000-ZK	AEC-Q200	2519.020.190.00.01
	0	0R	CHIP-R 0R/0402 YAG	50V	<0.05R	Dickfilm	0402	B	Yageo	RC0402JR-130RL	AEC-Q200	2519.020.190.00.02
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R16, R18, R20, R32, R37, R38, R49, R53, R58, R59, R65, R66	12	Bauteil nicht bestückt	Bauteil nicht bestückt									P000.000.000.00.02
												-
U1	1	MAX6753KA46	SMD-WATCHDOG MAX6753KA46/SOT23-8 MAX	6V	4V625 +/- 2%	Silizium	SOT23-8	B	MAXIM	MAX6753KA46+T		2519.010.041.00.01
U2	1	MC9S12XD256M AA	SMD-MICRO MC9S12XD256MAA/QFP80 FSL			Silizium	QFP80	A	Freescale	S912XD256F1MAAR		2519.010.059.00.01
U3	1	MAX7042	SMD-FSK-RX MAX7042/QFN32 MAX	5V5		Silizium	THNQFN32 (JEDEC WHHD-2)	A	MAXIM	MAX7042ATJ+C1R	AEC-Q100	2519.000.017.00.01
U4	1	TA75S393F	SMD-U-COMP TA75S393F/SOT235 TOS	36V		Silizium	SOT235	B	Toshiba	TA75S393F(TE85L,F)		2519.000.022.00.01
U5	1	TLE4266G	SMD-UREGLER TLE4266G/5V/2%/SOT223 INF	5V		Silizium	SOT223	B	Infineon	SP000300941	AEC-Q100	2519.000.043.00.01
U6	1	NCV4276A	SMD-UREGLER NCV4276A/DPAK ONS	Adjust.		Silicon	DPAK	B	ON Semiconductor	NCV4276ADTADJRKRG		2519.000.058.00.01
U7	1	INA200	SMD-I-MONITOR INA200/MSOP8 TI			Silicon	MSOP8		Texas Instruments	INA200AIDGKR		2519.000.059.00.01
U9	1	TLE6251-2G	SMD-CAN-TRX TLE6251-2G/SO14 INF	40V		Silicon	SO14	B	Infineon	SP000082094		2519.010.054.00.01
U10	1	BGA2001	SMD-HF-AMP BGA2001/SOT343R NXP	4,5V		Silizium	SOT343R	B	NXP Semiconductor	9340 555 86115		2519.000.002.00.01
U11	1	ATA6662	SMD-LIN-TRX ATA6662/SO8 ATM	40V		Silizium	SO8	B	Atmel	ATA6662-TAQY	AEC-Q100	2519.000.047.00.01

TSS

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erstellt / Datum: <i>prepared / date:</i>	geprüft / Datum: <i>checked / date:</i>	freigegeben / Datum: <i>released / date:</i>	Stückliste <i>bill of material</i>	Dok.-Nr.: drawing no.:	3531 300 121 02 12	Index d
Seemann	Härter	Kraft	LP BEST TSS SG G4 433MHZ	gehört zu Sach-Nr.: belongs to p/n.: 1531.300.121.xx.xx		
18.05.2009	18.05.2009	18.05.2009	PBA TSS ECU G4 433MHZ	Seite (page): 6 / 6		DIN A4 .

Anmerkung: Es ist nicht erlaubt ohne Rücksprache und schriftliche Genehmigung durch die BERU Electronics GmbH den Hersteller zu wechseln!

Note: It is not allowed to change the manufacturer without written allowance from BERU Electronics GmbH!

1	2	3	4	5	6	7	8	9	10	11	12	13
Bezeichnung (designation)	Anzahl (amount)	Typ (type)	Benennung (denomination)	Spannung (voltage)	Toleranz (tolerance)	Material (material)	Gehäuse (package)	Klasse (class)	Hersteller (manufacturer)	Hersteller Bestell Nr. (man. ordering code)	Q-Standard (Q-standard)	BERU Sach-Nr. (BERU part no.)
												-
U9_1	1	Bauteil nicht bestückt	Bauteil nicht bestückt									P000.000.000.00.03
												-
Y1	1	10M7	SMD-CER-FILT 10M7/SFECF10M7DF00S0 MUR			Ceramic	SFECS	B	Murata	SFECF10M7DF00S0-R1	AEC-Q200	2519.110.023.00.01
Y2	1	13M225625	SMD-QUARZ 13M225625/HC49-SMD/CL12P KIN			Quartz	HC-49/US-SMD	A	Kinseki	CXZ49GFA13225H0KRS02	AEC-Q200	2519.130.006.00.02
Y3	1	16M000	SMD-QUARZ 16M000/CX3225SA/CL12P KIN			Quartz	CX3225SA	A	Kinseki	CX3225SA16000HOKZZ09	AEC-Q200	2519.130.019.00.01
Y4	1	B3780	SMD-SAW-FILT 433M92/B3780/QCC8B EPC			Ceramic	QCC8B	B	Epcos	B39431B3780Z810	AEC-Q200	2519.110.025.00.01