









Comment	Description	Designator	Footprint	LibRef	Quantity
		C1, C2, C3, C4, C13, C14, C15, C16, C25.			,
		C14, C15, C16, C25, C26, C27, C28, C37, C38, C45, C46, C47,	1		1
		C38, C45, C46, C47,			
0.1uF	Capacitor 2x1.25 mm	C48, C49, C50, C52, C53, C57, C58, C59,	CAPC2013X100N	Cap0805	
		C60, C61, C62, C63,			
		C64, C65, C66, C67, C68, C69, C71, C72,			
		C68, C69, C71, C72, C73, C75, C76, C78, C80, C81, C82	1		1
1271	Capacitor 3.2x1.6 mm	C5 C11	CAPC3216X125N	Cap1206	
1100	Capacitor 3.2x1.6 mm	C6	CAPC3216X125N	Cap1206	
1228	Capacitor 3.2x1.6 mm	C7	CAPC3216X125N	Cap1206	
171.8	Capacitor 3.2x1.6 mm	C8, C12	CAPC3216X125N	Cap1206	
220		C9	CAPC3216X125N		
	Capacitor 3.2x1.6 mm			Cap1206	
94.6	Capacitor 3.2x1.6 mm	C10	CAPC3216X125N	Cap1206	
756.7	Capacitor 3.2x1.6 mm	C17, C23	CAPC3216X125N	Cap1206	
1000	Capacitor 3.2x1.6 mm	C18	CAPC3216X125N	Cap1206	
386	Capacitor 3.2x1.6 mm	C19	CAPC3216X125N	Cap1206	
106	Capacitor 3.2x1.6 mm	C20, C24	CAPC3216X125N	Cap1206	
180	Capacitor 3.2x1.6 mm	C21	CAPC3216X125N	Cap1206	
	-				
8.5	Capacitor 3.2x1.6 mm	C22	CAPC3216X125N	Cap1206	
464.8	Capacitor 3.2x1.6 mm	C29, C35	CAPC3216X125N	Cap1206	l
470	Capacitor 3.2x1.6 mm	C30	CAPC3216X125N	Cap1206	
356.4	Capacitor 3.2x1.6 mm	C31	CAPC3216X125N	Cap1206	
61.69	Capacitor 3.2x1.6 mm	C32, C36	CAPC3216X125N	Cap1206	
100	Capacitor 3.2x1.6 mm	C33	CAPC3216X125N	Cap1206	
9.7	Capacitor 3.2x1.6 mm	C34	CAPC3216X125N	Cap1206	
288.9	Capacitor 3.2x1.6 mm	C39, C42	CAPC3216X125N	Cap1206	
330	Capacitor 3.2x1.6 mm	C40	CAPC3216X125N	Cap1206	
199.1	Capacitor 3.2x1.6 mm	C41	CAPC3216X125N	Cap1206	
47uF	GRM32ER71A476KE15	C43	CAPC3225X270N	Cap1210	
	L DADINOS PARA				
0.1uF	FM31X104K251EEG GRM43DR72J104KW0	C44, C54	CAPC3216X125N	Cap1206	
	GRM43DR72J104KW0 1 (1812, X7R:EIA, 0 TuE DC630W)		1		1
0.1uF	0.1uF, DC630V), GRM43DR72J104KW0	C51, C56	CAPC4532X218N	Cap1812	1
	1(1812, X7REIA,				
	0.1uF, DC630V)				
190*	Capacitor 3.2x1.6 mm	C55	CAPC3216X125N	Cap1206	
100uF	EEUFR1E471	C70	CAPPR500-1050X1300	CapPolarized	
2.2uF	Capacitor 2x1.25 mm	C74, C77	CAPC2013X100N	Cap0805	
10uF PLD-20	Capacitor 2x1.25 mm	C79 CON1	CAPC2013X100N PBD-20	Cap0805 CONNECTOR-20	
PLD-10		CON2	3M_2510-6002RB	CONNECTOR-10	
LD1117STR	Adjustable and fixed	DA1	SOT230P700X180-4N	LD1117	
LDTTT/SIR	low drop positive voltage regulator	DAI	301230F700X180-4N	LDITII	
ULN2803C	Darlington Transistor Array	DA2	SOIC127P1030X265- 18N	ULN2803A	
	Single Supply Dual				
LM358	Operational Amplifiers	DA3	SOIC127P600X175-8N	LM358	
	8-bit serial-in, serial or				
74HCT595D	parallel-out shift register with output	DD1	SOIC127P600X175- 16N	74HCT595D	
	latches; 3-state				
SMA001 PWL-2	PWL-2	J1, J3	SMA001 PWL-2	RF Connector PWR_CONNECTOR	
SMA		J4 K1. K2. K3. K4. K5. K6.	SMA001	RF Connector	
G6S-2-12VDC	Compact, Industry-	K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11,	G6S-2	G6S-2-12VDC	
	Standard 2-pole relay	K12, K13, K14, K15			
4.375u 591.3nH	T50-6	L1, L2 L3, L4	T50-6	Inductor Inductor	
2.604uH	T50-2	L5, L6	T50-2	Inductor	
342.2nH 1.5uH	T50-6 T50-6	L7, L8 L9, L10	T50-6 T50-6	Inductor Inductor	
199.1nH	T50-6	L11, L12	T50-6	Inductor	
	TEO (	L13, L14	T50-6	Inductor	
994.9nH	T50-6			Inductor	
994.9nH 4.7uH	T50-6 Bochen, 4.7μH±10%, Idc=5.0A, Rdc	L15, L18	Inductor radial	inductor	
994.9nH	T50-6 Bochen, 4.7µH±10%, Idc-5.0A, Rdc MXX=0.05	L15, L18		Inductor	
994.9nH 4.7uH	T50-6 Bochen, 4.7µH±10%, Idc-5.0A, Rdc waxr-0.05 SMD 0805 50-100mA 3,3uH ±10%		Inductor radial RESC2013X64N		
994.9nH 4.7uH 10uH	T50-6 Bochen, 4.7µH±10%, Idc-5.0A, Rdc MXE-0.05 SMD 0805 50-100mA 3,3uH ±10% axcmanneniii	L16	RESC2013X64N	Inductor	
994.9nH 4.7uH	T50-6 Bochen, 4.7µH±10%, Idc=5.0A, Rdc  мах:-0.05 SMD 0805 50-100mA  3,3uH±10% аккиальный дроссель 670mA  0.340hm (KLS18-EC36-				
994.9sH 4.7uH 10uH 3.3uH	T50-6 Bochen, 4.7µH±10%, Idc=5.0A, Rdc  мах:-0.05 SMD 0805 50-100mA  3,3uH±10% аккиальный дроссель 670mA  0.340hm (KLS18-EC36-	L16	RESC2013X64N RES1270-650X250	Inductor	
994.9nH 4.7uH 10uH 3.3uH	T50-6 Bochen, 4.7µH±10%, Idc=5.0A, Rdc wax=0.05 SMD 0805 50-100mA 3,3uH±10% axceansesill apoccens 670mA	L16 L17 L19, L20	RESC2013X64N  RES1270-650X250  RES1016-650X250	Inductor Inductor	
994.9nH 4.7uH 10uH 3.3uH 100uH	150.6  Bochen, 4.7µH±10%, 16d-5.0A, 8-0.05  SMD 0805 50-100mA  3.3H ±10% аккиальный дроссель 670mA  0.340hm (N.S18-EC36-3R3K-A-KLS)  DLA100-MN	L16 L17 L19, L20 R1, R2, R32, R35	RESC2013X64N  RES1270-650X250  RES1016-650X250  RESC2013X64N	Inductor Inductor Inductor Res0805	
994.9nH 4.7uH 10uH 3.3uH 100uH	150.6  Bochen, 4.7µH±10%, 16d-5.0A, 8-0.05  SMD 0805 50-100mA  3.3H ±10% аккиальный дроссель 670mA  0.340hm (N.S18-EC36-3R3K-A-KLS)  DLA100-MN	L16 L17 L19, L20 R1, R2, R32, R35 R3, R4	RESC2013X64N  RES1270-650X250  RES1016-650X250	Inductor Inductor	
994.9eH 4.7uH 10uH 3.3uH 100uH 2.2k 4.7k	150.6  Bochen, 4.7µH±10%, 16d-5.0A, 8-0.05  SMD 0805 50-100mA  3.3H ±10% аккиальный дроссель 670mA  0.340hm (N.S18-EC36-3R3K-A-KLS)  DLA100-MN	L16 L17 L19, L20 R1, R2, R32, R35 R3, R4 R5 R6, R8, R9, R14, R17,	RESC2013X64N  RES1270-45GK250  RES1016-45GK250  RESC2013X64N 3296W	Inductor  Inductor  Inductor  Rest805 potenticmeter	
994 99H 4.7uH 10uH 3.3uH 100uH 2.2k 4.7k 6.6k 330 1k	150.6  Bochen, 4.7µH±10%, 16d-5.0A, 8-0.05  SMD 0805 50-100mA  3.3H ±10% аккиальный дроссель 670mA  0.340hm (N.S18-EC36-3R3K-A-KLS)  DLA100-MN	L16 L17 L19, L20 R1, R2, R32, R35 R3, R4 R5 R6, R8, R9, R14, R17, R18 R7, R15, R22	RESC2013X64N  RES1270-650X250  RES1016-650X250  RESC2013X64N 3296W  RESC2013X64N  RESC2013X64N  RESC2013X64N	Inductor Inductor Inductor Res0805 potentilemeter Res0805 Res0805 Res0805	
994,96H 4.7uH 10uH 10uH 10uH 10uH 100uH 2.2k 4.7x 6.8k 330	150.6  Bochen, 4.7µH±10%, 16d-5.0A, 8-0.05  SMD 0805 50-100mA  3.3H ±10% аккиальный дроссель 670mA  0.340hm (N.S18-EC36-3R3K-A-KLS)  DLA100-MN	L16 L17 L19, L20 R1, R2, R32, R35 R3, R4 R5 R6, R8, R9, R14, R17, R18 R7, R15, R22 R10, R16	RESIZ2013X64N  RES1270-650X250  RES1016-650X250  RES1016-650X250  RESIZ013X64N  RESIZ013X64N  RESIZ013X64N  RESIZ013X64N	Inductor Inductor Inductor Inductor Res0805 potenticmeter Res0805 Res0805	
994,99H 4.7uH 10uH 3.3uH 100uH 2.2k 4.7k 5.5k 330	150.6  Bochen, 4.7µH±10%, 16d-5.0A, 8-0.05  SMD 0805 50-100mA  3.3H ±10% аккиальный дроссель 670mA  0.340hm (N.S18-EC36-3R3K-A-KLS)  DLA100-MN	L17 L19, L20 R1, R2, R32, R35 R2, R4 R5 R6, R8, R9, R14, R17, R18 R7, R15, R62 R11, R12 R13, R23	RES12013X64N RES1270-650X250 RES1016-650X250 RES10104-650X250 RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N	Inductor Inductor Inductor Inductor Residios Pacificos Residios Residios Residios Residios Residios	
994 99H 4.7uH 10uH 3.3uH 100uH 2.2k 4.7k 6.8k 330 1k 3.3°	150.6 Bochen, 4.7µH±10%, 160-5.0A, 60-60, 6	L17  L17, L20 R1, R2, R32, R35 R3, R4 R5 R8, R9, R14, R17, R18 R7, R15, R22 R10, R16 R11, R12 R13, R28 R19	RESIZOTISMA 4N	Inductor  Inductor  Resideos	
994 99H 4.7uH 10uH 3.3uH 100uH 2.2k 4.7k 6.8k 330 1k 3.3°	150.6 Bochen, 4.7µH±10%, 160-5.0A, 60-60, 6	L17 L19, L20 R1, R2, R32, R35 R2, R4 R5 R6, R8, R9, R14, R17, R18 R7, R15, R62 R11, R12 R13, R23	RES12013X64N RES1270-650X250 RES1016-650X250 RES10104-650X250 RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N RES12013X64N	Inductor Inductor Inductor Inductor Residios Pacificos Residios Residios Residios Residios Residios	
994 6981 4.7uH 100uH 3.3uH 100uH 2.2% 4.7k 6.38 330 1k 3.3-3-560 4.7k 0 0 333	190.6 Bochen, 4. 7µHz 10%, 164-5.0, Rid: usar-0.05 5.0 100mA usar-	116  117, L20  21, R2, R32, R35, R3, R8, R9, R14, R17, R18  82, R4  87, R15, R22  810, R16  811, R12  813, R23  819  820, R21, R39, R41, R37, R35, R32  810	RESIZO13X64N  RES1270-650X250  RES1016-650X250  RES1016-650X250  RESIZO13X64N	Inductor  Inductor  Residing	
994 69H 4.7uH 10uH 3.3uH 100uH 2.7k 4.7k 6.6k 3.33 7k 3.37 500 4.7k 0	150.6 Bochen, 4.7µH±10%, 160-5.0A, 60-60, 6	L17 L17 L19, L20 R1, R2, R32, R35 R2, R4 S5 R2, R4 R5 R7, R15, R22 R10, R16 R11, R12 R13, R28 R19 R20, R21, R39, R41	RESIZOTISKÉ 4N	Inductor  Inductor  Res0805	
994 00H 4 7uH 170uH 170u	190.6 Bochen, 4. 7µHz 10%, 164-5.0, Rid: usar-0.05 5.0 100mA usar-	119, L20 81, R2, R32, R35 82, R4 82, R4 83, R6, R9, R9, R14, R17, R18 810, R16 811, R12 813, R28 812, R15, R22 810, R16 811, R12 813, R29 810, R16 813, R29 810, R30	RESC201264 W RES1270 4500250 RES1016-6500250 RES1016-6500250 RES201266 W RES2201266 W	Inductor  Inductor  Residing	
994.09H 4.7uH 100uH 100uH 2.2% 4.7k 6.88 130 1k 3.3° 3.3° 7.40 0 0 333	190.6 Bochen, 4. 7µHz 10%, 164-5.0, Rid: usar-0.05 5.0 100mA usar-	L17 L17, L20 R1, R2, R32, R35 R2, R4, R35 R2, R4, R17, R18 R8, R8, R9, R14, R17, R18 R7, R15, R22 R10, R16 R11, R12 R13, R23 R19 R20, R21, R39, R41 R23 R24 R24 R25	RESIZO13X64N  RES1270-650X250  RES1016-650X250  RES1016-650X250  RESIZO13X64N	Inductor  Inductor  Residing	
794.004 4.7uH 100uH 100u	190.6 Bochen, 4. 7µHz 10%, 164-5.0, Rid: usar-0.05 5.0 100mA usar-	110 1.10 1.10 1.10 1.10 1.10 1.10 1.10	8ESS_2013864W 8ES1270 4508250 8ES1016 4508250 8ES1016 4508250 3ES2013864W 3ES2013864W 8ES2013864W 8ES2013866W	Inductor  Inductor  Inductor  Recotloss	
994 00H 4 7uH 1004H 13 3uH 10004H 10004H 12 22k 4 7x 6 88 330 38 37 37 37 37 37 37 37 37 37 37 37 37 37	190.6 Bochen, 4. 7µHz 10%, 164-5.0, Rid: usar-0.05 5.0 100mA usar-	119, 120 419	8ESS_2013864W 8ES1270 4508250 8ES1016 4508250 8ES1016 4508250 3ES2013864W 3ES2013864W 8ES2013864W 8ES2013866W	Inductor  Inductor  Residing	
794.004 4.7uH 100uH 100u	190.6 Bochen, 4. 7µHz 10%, 164-5.0, Rid: usar-0.05 5.0 100mA usar-	110 1.10 1.10 1.10 1.10 1.10 1.10 1.10	RESIZOLISMA 6N	Inductor  Inductor  Inductor  Recotloss	
094 004 1 4.7 uH 1004H 3.3 uH 1004H 3.3 uH 1004H 3.3 uH 1004H 3.3 uH 3.	170.0.6  170.0.10  170.0.1	117 117 117 118 119,120 118 122 123 123 123 124 124 125 12	68 X.20138449  68 X.30138449  68 X.30138449  68 X.30138449  68 X.30138449  68 X.20138449	Todactor  Inductor  Induct	
094 004 1 4.7 uH 1004H 3.3 uH 1004H 3.3 uH 1004H 3.3 uH 1004H 3.3 uH 3.	170.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	11/6 1.19 (1.20 1.19 (	85 X D T 1864 W 86 X 1770 6 450 U 250 86 X D T 1864 W 250 U 250 86 X D T 1864 W 250 86 X	Todactor  Inductor  Induct	
094.004 4.7uH 1004H 1004	190.6 L. 2014 100,	117 117 117 118 119,120 118 122 123 123 123 124 124 125 12	88 X 20133448  88 X 20133448  88 X 20134480  89 X 20134480  80 X 20134800  80 X 2	Todactor  Inductor  Induct	
994.094 A104 A104 A104 A104 A104 A104 A104 A10	1926 A. 2014 105, 2014 105	119, 120  117, 127  117, 127  117, 127  117, 127  117, 127  118  117, 127  118  117, 127  118  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 128  118, 127  118, 128  1	88 X20733449  88 X30734409  88 X3074 4600230  88 X3074 4600230  88 X3074 4600230  88 X20733449  88 X2073449  88 X20734449  88 X2073449  88 X2074449  88 X2074449  88 X207449  88 X20	Inductor Inductor Inductor Septimize	
094.094 A7,044 3.3,044 3.3,044 3.3,044 3.3,044 3.3,045 3.3,02 3.3,02 3.3,03 3.3	190.6 L. 2014 100.	119 (179 ) 120 (179 )	88 X 20133446 88 3 1770 4 600230 88 3 1770 4 600230 88 3 1770 4 600230 88 3 20133440 88 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Industrial	
994.094 A104 A104 A104 A104 A104 A104 A104 A10	170.0.6. 2014 170.0. 2014 170.	119, 120  117, 127  117, 127  117, 127  117, 127  117, 127  118  117, 127  118  117, 127  118  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 127  118, 128  118, 127  118, 128  1	88 X20733449  88 X30734409  88 X3074 4600230  88 X3074 4600230  88 X3074 4600230  88 X20733449  88 X2073449  88 X20734449  88 X2073449  88 X2074449  88 X2074449  88 X207449  88 X20	Inductor Inductor Inductor Septimize	
094.094  1.3.344  1.3.344  1.3.344  1.3.344  1.3.325  1.3	150.6. 170.10 170.0 170.10 170.0 170.10 170.	110 117 117 117 117 117 117 117 117 117	88 X-201334-09 88 31270-6-000210 88 31270-6-000210 88 31270-6-000210 88 X-20134-00 88 X-2014-00 88 X-2014-	inductor Ind	
994.094 3.3ul4 3.ul4 3.ul	110.0.6. x 3/41110.1. x 3/4110.1. x	139, 120  139, 120  141, 120, 120  141, 120, 120, 120  141, 120, 120  141, 120, 120  141, 120, 120  141, 120, 120  141, 120  1	88 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Troductor	
094.094  1.3.344  1.3.344  1.3.344  1.3.344  1.3.345  1.3.35	150.6. 170.1100 pt. 150.1100 pt	119 (120 (191 (120 (191 (191 (191 (191 (191 (191 (191 (19	88 X-2013346 69  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 3 770 4 600 220  88 3 770 4 60	Industrial	
994.094 3.3ul4 3.ul4 3.ul	190.6. 2019 100 100 100 100 100 100 100 100 100	139, 120  139, 120  141, 120, 120  141, 120, 120, 120  141, 120, 120  141, 120, 120  141, 120, 120  141, 120, 120  141, 120  1	88 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Troductor	
094.094  1.3.344  1.3.344  1.3.344  1.3.344  1.3.344  1.3.345  1.3.35	150.6. 17	199, 120 (199, 1	88 X-201304-09 88 31770-6-00220 88 31770-6-00220 88 31770-6-00220 88 X-201304-09	Industrial	
994 044  1.3.34  1.3.34  1.3.34  1.3.34  1.3.34  1.3.34  1.3.35  1.3.3	170.0.6. 2014 100.0.000 100.00	139, 120 211 12, 120 211 12, 120 12, 120 211 12, 120 12, 120 211 12, 120 12, 120 211 12, 120 12, 120 211 12, 120 12, 120 211 1	68 S. 2013346 N 883 1770 4600250 183 3070 4600250 183 3070 4600250 183 2070346 N 183 207034 N 1	roductor  Inductor  Inductor  Records	
994 044  1.3.34  1.3.34  1.3.34  1.3.34  1.3.34  1.3.34  1.3.35  1.3.3	150.6. 17	199, 120 (199, 1	88 X-201304-09 88 31770-6-00220 88 31770-6-00220 88 31770-6-00220 88 X-201304-09	Industrial	
994.094  3.38H  100.0H  100.0H  100.0H  2.2 K  4.7 K  4.7 K  4.8 K  5.0 C  100.0H  100	150.6 x 3014 100.6	139, 120  131, 120  131, 120  131, 120, 130, 130, 130, 130, 130, 130, 130, 13	86 X-201346-69 8833/79-4690/250 8833/79-4690/250 8833/79-4690/250 8832/793469	Inductor  Inductor  Inductor  Inductor  Records	
994 094  3.3.44  3.3.44  3.3.44  3.3.44  3.3.45  3.3.47  3.3.47  3.3.48  3.3.48  3.3.49  3.3.4	150.6. 17	139, 120 219, 120 211, 120 211, 120, 120 211, 120, 120 211, 120, 120 211, 120, 120 211, 120, 120 211, 120, 120 211, 120, 120 211, 120, 120 211, 120, 120 211, 120, 120 211, 120, 120 211, 120 21	86 X-2013346 N 883 1779 4600250 883 1979 4600250 883 1979 4600250 883 1979 4600250 883 1979 4600250 883 1979 4600 883 1	reductor  Inductor  Inductor  Inductor  Response  Respon	