

Item	Qty	Reference	Value	Description	MFGR	MFGR#	MFGR-Footprint	Supplier	Supplier#	Provided by
Part List Report for EM430F6147RF900										
Date: 20/01/2011 Initial Version from CAD										
		Rev4.0	25.04.2012 MP	Tools BOM						
		Rev3.3	20.01.2011 TH	Initial Version from CAD						
			20.01.2011 TH	Jumperplan ergänzt						
			27.01.2011 TH	U2, L2, C8, C9 vorerst DNP						
			23.03.2011 TH	mod, added Pos 6 7 31 47 48						
		Rev3.4 and Rev3.4S	11.07.2011 TH	copied from V3.3, JP9 added, BOM prepared for PCB Rev 3.4(U1 direct) and 3.4S(U1 with Socket)						
			19.10.2011 TH	PCB Name changed to EM430F6147RF900						
		Rev4.0	20.4.2012 TH	only Layoutchange , no part depending						
Notes:										
1. These assemblies are ESD sensitive, ESD precautions shall be observed.										
2. These assemblies must comply with workmanship standards IPC-A-610 Class 2.										
3. All values with DNP means this Part is not mounted										
4. Ref designators marked with RED cannot be substituted.										
All other components can be substituted with equivalent MFG's components.										
5. Capacitors w/o detailed MFGR and Supplier could have 20% and >= 16V										
6. Resistors w/o detailed MFGR and Supplier could have 5%.										
1	2	ABO1-2	Bohrung	Bohrung	Layout	-	-	Layout	-	DNP
2	1	APCB1	PCB EM430F6147RF900 Rev4 Tools	PCB Coordinate Lower/Left	-	-	-	-	-	DNP
3	3	AVB1-3	Fiducial Mark Bottom-Seite	Fiducial Mark	Layout	-	-	Layout	-	DNP
4	3	AVT1-3	Fiducial Mark Top-Seite	Fiducial Mark	Layout	-	-	Layout	-	DNP
5	14	C1-5 C112 C252 C381 C391 C421	0.1uF	CAP, SMD, Ceramic, 0402, 0.1uF, 16V, 10%, X5R	AVX	0402YC104KAT2A	402	tbd	tbd	
6	1	C7	22uF	Capacitor, Ceramic, 1206, 16V, X5R, 20%	Sanyo	GRM31CR61C226ME15L	1206	tbd	tbd	
7	2	C8-9	2.2uF	CAP, SMD, Ceramic, 0402, 2.2uF, X5R	Murata	GRM155R60J225ME15D	402	tbd	tbd	
8	1	C041	4.7uF	CAP, SMD, Ceramic, 0603, 4.7uF, 16V, 10%, X5R	tbd	tbd	603	tbd	tbd	
9	4	C46-47 C392 C48	2pF	CAP, SMD, Ceramic, 0402, 2pF, 50V, +/-0.1pF, COG	Murata	GRM1555C1H2R0BZ01	402	tbd	tbd	
10	1	C101	0.47uF	CAPACITOR, SMT, 0603, CERAMIC, 0.47uF, 16V, 10%, X5R	AVX	0603YD474KAT2A	603	tbd	tbd	
11	4	C111 C251 C521 C561	1uF	CAPACITOR, SMT, 0603, CERAMIC, 1uF, 6.3V, 10%, X5R	PANASONIC	ECJ-1VB0J105K	603	tbd	tbd	
12	2	C361 C371	27pF	CAP, SMD, Ceramic, 0402, 27pF, 50V, 5%, COG(NPO)	Murata	GRM36COG270J50	402	tbd	tbd	
13	1	C401	1pF	CAPACITOR, SMT, 0402, CER, 1pF, 50V, +/-0.25pF, NPO	Murata	GJM1555C1H1R0CB01D	402	tbd	tbd	
14	4	C402 C411-412 C414	1.5pF	CAPACITOR, SMT, 0402, CERAMIC, 1.5pF, 50V, +/-0.25pF, COG(NPO)	Murata	GRM1555C1H1R5CZ01	402	tbd	tbd	
15	1	C403	100pF	CAPACITOR, SMT, 0402, CERAMIC, 100pF, 50V, +/-5%, COG(NPO)	Murata	GRM1555C1H101JZ01	402	tbd	tbd	
16	1	C413	8.2pF	CAPACITOR, SMT, 0402, CERAMIC, 8.2pF, 50V, +/-0.25pF, COG(NPO)	Murata	GRM1555C1H8R2CZ01	402	tbd	tbd	
17	1	C511	2.2nF	CAPACITOR, SMT, 0402, CER, 2200pF, 50V, 10%, X7R	PANASONIC	ECJ-0EB1H222K	402	tbd	tbd	
18	2	C554 C551	12pF	CAPACITOR, SMT, 0402, CER, 12pF, 50V, 5%, NPO	PANASONIC	ECJ-0EC1H120J	402	tbd	tbd	
19	9	CON1-9	2x4Pin, Rm 2.54	(DNP)Header, THD, Male 2x4 Pin, 100mil spacing	tbd	tbd	2x4Pin, Rm. 2.54	tbd	tbd	DNP
20	1	CON10	2x5Pin, Wanne	(DNP)Header, THD, Male 2x5 Pin, Wanne, 100mil spacing	tbd	tbd	2x5Pin, Wanne	tbd	tbd	DNP
21	1	CON11	2x7Pin, Wanne	Header, THD, Male 2x7 Pin, Wanne, 100mil spacing	tbd	tbd	2x7Pin, Wanne	tbd	tbd	DNP
22	1	CON12	Molex1x3	Pinheader 1x3, Grid: 2.5mm	Molex	3/22/5035	1x3Pin, Rm2.5mm	tbd	tbd	
23a	4	JP3 JP5 JP9 JP10	1x2Pin	Pinheader 1x2; Grid: 100mil / 2.54 mm						
23b	2	CON13 JP7	1x2Pin	Pinheader 1x2; Grid: 100mil / 2.54 mm						DNP
24	1	D1	SMD LED LAMP(GREEN)	LED, SMT, 0603, GREEN, 2.1V	KINGBRIGHT	APT1608MGC	1.6mmX0.8mm	-	-	
25	1	D2	SMD LED LAMP(Red)	LED, SMT, 0603, RED, 2.0V	KINGBRIGHT	APT1608EC	1.6mmX0.8mm	-	-	
26	1	JP1	2x4Pin	Pinheader 2x4 Grid: 100mil / 2.54 mm						
27	1	JP1A	2x3Pin	Pinheader 2x3; Grid: 100mil / 2.54 mm						
28	3	JP2 JP6 JP8	1x3Pin	Pinheader 1x3; Grid: 100mil / 2.54mm						
29	1	JP4	2x2Pin	Pinheader 2x2; Grid: 100mil / 2.54 mm						DNP
30	3	L1 L401 L411	12nH	Inductor, SMD, 0402, 12nH, 5%, 370mA, 250MHz	Murata	LQW15AN12NJ00	402	tbd	tbd	
31	1	L2	2.2uH	Inductor, SMD, 0805, 2.2uH, 20%, 600mA, 50MHz	Murata	LQM21PN2R2MCO	805	tbd	tbd	
32	2	L402 L412	18nH	Inductor, SMD, 0402, 18nH, 5%, 460mA, 250MHz	Murata	LQW15AN18NJ00	402	tbd	tbd	
33	1	L413	15nH	Inductor, SMD, 0402, 15nH, 5%, 370mA, 250MHz	Murata	LQW15AN15NJ00	402	tbd	tbd	
34	1	L414	2.2nH	INDUCTOR, SMT, 0402, 2.2nH, +/-0.2nH, 1000mA, 250MHz	Murata	LQW15AN2N2C10	402	tbd	tbd	
35	1	L415	15nH	INDUCTOR, SMT, 0402, 15nH, +/-5%, 460mA, 250MHz	Murata	LQW15AN15NJ00	402	tbd	tbd	
36	1	L451	12nH	Inductor, SMD, 0402, 12nH, 5%, 370mA	Murata	LQW15AN12NJ00	402	tbd	tbd	
37	1	Q1	26MHz	(CUSTOMER SUPPLY) CRYSTAL, SMT, 4P, 26MHz	AKER ELECTRONIC	ASX-531(CS)	5.2mmX3.4mm	CompoTEK	CTA531-26.000-16-10/A	
38	1	Q2	32.768k	(DNP)CRYSTAL, SMT, 4P, 32.768 kHz	SEIKO	SSP-T7-F	7mmX1.5mm	-	-	DNP
39	1	Q3	32.768k	(DNP)UNINSTALLED CRYSTAL, SMT, 3P, MS1V (Customer Supply)	MICRO CRYSTAL	MS1V-T1K (UN)	8.1mmX2mm	-	-	DNP, but put in box
40	2	R1 R7 R551 R554	0R	RESISTOR/JUMPER, SMT, 0R, 1/16W	ERJ-2GE0R00X	tbd	402	PANASONIC	tbd	
41	3	R2-3 R6	330R	RESISTOR, SMT, 0402, THICK FILM, 5%, 1/16W, 330	ERJ-2GEJ331	tbd	402	PANASONIC	tbd	
42	6	R5 R4 R221 R231	0R	(DNP)RESISTOR/JUMPER, SMT, 0R, 1/16W	ERJ-2GE0R00X	tbd	402	PANASONIC	tbd	DNP
43	1	R441	56k/1%	RES, SMD, 0402, 1/16W, x%	tbd	tbd	402	tbd	tbd	
44	1	R511	47k	RES, SMD, 0402, 1/16W, x%	DALE	CRCW04024702F100	402	tbd	tbd	
45	2	S1-2	B3U-1000P	ULTRA-SMALL TACTILE SWITCH, SMT, 2P, SPST-NO, 1.2x3x2.5mm, 0.05A, 12V	OMRON	B3U-1000P	4mmX2.5mm	-	-	
46	1	SMA1	SMA	SMA STRIGHT JACK, SMT	Rosenberger	32K10A-40ML5	xx	Rosenberger	32K10A-40ML5	
47	1	U1	CC430F6147	IC, MCU, SMD, 9.15x9.15mm Thermal Pad	Texas Instruments	CC430F6147	??	tbd	tbd	Texas Instruments
48	1	U2	TPS62730	IC, Step Down Converter with Bypass Mode for Low Power Wireless	Texas Instruments	DRY(R-PDSO-N6)	??	tbd	tbd	Texas Instruments
49	12	XJMP	Jumper/Shunt see Jumperlist	Jumper/Shunt with Handle	z.B Tyco	z.B. 4-0881545-2	Shunt	tbd	tbd	
		Jumperlist: (place Jumper on)	JP3, JP5, JP10, JP2/1-2, JP1/1-2, JP1/3-4, JP1/5-6, JP1/7-8, JP1a/3-5, JP1a/4-6 JP6/1-2, JP8/1-2							