

Bill of Material for 423S06 Up-Converter MAGNUM_ARK rev_E
On 3/06/2010 at 14.30.20

Comment	Pattern	Quantity	Components	

0 1/16W Resistor	0603R	19	R1, R10, R20, R25, R29, R32 R41, R43, R54, R67, R70, R71 R72, R81, R82, R94, R100 R106, R113	5 %
10 - 1W 1W Resistor	2512	1	R167	5 %
100 1/16W Resistor	0603R	3	R34, R97, R98	5 %
100K 1/16W Resistor	0603R	3	R122, R123, R124	5 %
100n Multilayer Ceramic Capacitor	0603R	59	C9, C10, C11, C17, C20, C22 C24, C25, C39, C41, C43, C46 C51, C53, C54, C55, C57, C59 C61, C75, C77, C80, C94, C110 C112, C116, C117, C119, C126 C128, C129, C130, C132, C134 C139, C141, C142, C148, C149 C151, C153, C154, C156, C157 C159, C160, C161, C163, C166 C167, C168, C170, C173, C174 C175, C178, C179, C180, C181	
100nH Inductor	0603R	4	L15, L16, L17, L18	SMD
100p Multilayer Ceramic Capacitor	0603R	20	C32, C34, C35, C36, C52, C56 C58, C60, C73, C74, C76, C79 C96, C97, C111, C118, C127 C131, C140, C145	
100u-16V Tantalum Electrolytic Capacitor Type D	TANT-D	1	C14	
100u-6V3 Multilayer Ceramic Capacitor	1210	3	C93, C103, C169	
10K 1/16W Resistor	0603R	5	R33, R45, R147, R149, R150	5 %
10K Trimmer Bourns 3224W-1-103E - TRIM0120	VR10	1	RV1	
10n	0603R	14	C15, C16, C26, C30, C49, C89	

Multilayer Ceramic Capacitor

			C106, C114, C122, C124, C125 C135, C138, C143	
10p	0603R	11	C3, C5, C6, C7, C8, C18, C21	
Multilayer Ceramic Capacitor				
10u-16V	1206	1	C23, C50, C69, C70 C162	
Multilayer Ceramic Capacitor				
10u-16V	TANT-B	4	C62, C109, C164, C165	
Tantalum Electrolytic Type B				
10u-6V3	0603R	4	C2, C12, C176, C177	
Multilayer Ceramic Capacitor				
110	0603R	2	R76, R80	5 %
1/16W Resistor				
120nH	0603R	2	L1, L2	SMD
Inductor				
12K	0603R	1	R11	5 %
1/16W Resistor				
12p	0603R	2	C147, C150	
Multilayer Ceramic Capacitor				
150	0603R	5	R19, R59, R109, R115, R119	5 %
1/16W Resistor				
150nH	0603R	2	L3, L4	SMD
Inductor				
15K	0603R	10	R118, R126, R129, R131, R133	5
% 1/16W Resistor				
18	0603R	10	R134, R135, R136, R137, R138 R22, R24, R37, R50, R52, R53	5 %
1/16W Resistor				
180K	0603R	1	R77, R93, R95, R96 R13	5 %
1/16W Resistor				
18K	0603R	3	R31, R44, R66	5 %
1/16W Resistor				
1K	0603R	12	R14, R26, R28, R30, R42, R64	5 %
1/16W Resistor				
1K6	1206	1	R83, R84, R117, R125, R130 R132 R27	5%
1/4W Resistor				
1M	0603R	1	R116	5 %
1/16W Resistor				
1n	0603R	18	C27, C28, C29, C33, C47, C48	
Multilayer Ceramic Capacitor				
			C63, C64, C66, C67, C68, C71 C72, C84, C88, C104, C105	

			C121	
1p2 tek	0603R	1	C100	
Multilayer Ceramic TEMEX TEKELEC - COND1700				
1p5 tek	0603R	2	C83, C102	
Multilayer Ceramic TEMEX TEKELEC - COND1701				
1u	0603R	5	C37, C44, C78, C113, C137	
Multilayer Ceramic Capacitor				
1u-16V	TANT-A	1	C86	
Tantalum Electrolytic Capacitor Type A				
220	0603R	2	R49, R102	5 %
1/16W Resistor				
220K	0603R	1	R79	5 %
1/16W Resistor				
220n	0603R	1	C152	
Multilayer Ceramic Capacitor				
220p	0603R	3	C13, C45, C99	
Multilayer Ceramic Capacitor				
220u -63V	RB.2/.4	1	C38	
Radial Electrolytic Capacitor 5,08 mm				
22K	0603R	1	R9	5 %
1/16W Resistor				
27	0603R	6	R48, R73, R103, R105, R110	5 %
1/16W Resistor				
			R112	
270	0603R	6	R85, R86, R87, R88, R89, R90	5 %
1/16W Resistor				
27K	0603R	1	R78	5 %
1/16W Resistor				
2p4 tek	0603R	1	C87	
Multilayer Ceramic TEMEX TEKELEC - COND1707				
2p7 tek	0603R	2	C85, C90	
Multilayer Ceramic TEMEX TEKELEC -COND1708				
32.768kHz	TC38H	1	Y2	
Quarz Crystal watch A - QUAR0029				
33	0603R	1	R35	5 %
1/16W Resistor				
330	0603R	4	R8, R12, R16, R23	5%
1/16W Resistor				
390nH	0603R	1	L8	SMD
Inductor				
39nH	0603R	2	L5, L6	SMD
inductor				
3K3	0603R	1	R5	5 %
1/16W Resistor				
3K9	0603R	2	R40, R146	5 %
1/16W Resistor				

3p3 tek	0603R	1	C82	
Multilayer Ceramic	TEMEX TEKELEC - COND1703			
3p9 tek	0603R	1	C91	
Multilayer Ceramic	TEMEX TEKELEC - COND1714			
4,7nH	0603R	2	L13, L14	SMD
inductor				
470K	0603R	1	R111	5 %
1/16W Resistor				
470n	0603R	3	C146, C155, C158	
Multilayer Ceramic Capacitor				
470p	0603R	3	C1, C98, C108	
Multilayer Ceramic Capacitor				
47K	0603R	12	R51, R55, R104, R107, R120	5 %
1/16W Resistor				
			R128, R140, R141, R142, R143	
			R144, R145	
47n	0603R	4	C115, C123, C133, C136	
Multilayer Ceramic Capacitor				
47u-6V3	1210	1	C65	
Multilayer Ceramic Capacitor				
49,9	0603R	4	R2, R3, R6, R18	5%
1/16W Resistor				
4K7	0603R	6	R4, R7, R21, R121, R148, R151	5
% 1/16W Resistor				
4n7	0603R	1	C4	
Multilayer Ceramic Capacitor				
4p3 tek	0603R	1	C92	
Multilayer Ceramic	TEMEX TEKELEC - COND1716			
4p7	0603R	2	C171, C172	
Multilayer Ceramic Capacitor				
56	0603R	2	R46, R68	5 %
1/16W Resistor				
560	0603R	1	R99	5 %
1/16W Resistor				
56p	0603R	1	C95	
Multilayer Ceramic Capacitor				
5K6	0603R	1	R75	5 %
1/16W Resistor				
6,8nH	0603R	2	L7, L11	SMD
Inductor				
68	0603R	2	R39, R101	5 %
1/16W Resistor				
680p	0603R	1	C40	
Multilayer Ceramic Capacitor				
68p	0603R	1	C107	
Multilayer Ceramic Capacitor				

6n8	0603R	1	C42	
Multilayer Ceramic Capacitor				
6p8	0603R	1	C101	
Multilayer Ceramic Capacitor				
820	0603R	1	R17	5%
1/16W Resistor				
8K2	0603R	1	R74	5 %
1/16W Resistor				
AD8317CPZ	CP-8-1	3	IC10, IC15, IC18	1
MHz to 10GHz, 50 dB Log Detector Controller - CI0510				
AD8361ARMZ	MSOP8	4	IC5, IC17, IC19, IC21	LF
to 2.5 GHz ThruPwr Detector - CI0305				
ADF4350-BCPZ	CP-32-3	1	IC2	
Analog Devices - Wideband Synthesizer With Integrated VCO - CI0641				
ADL5330CPZ	CP-24	1	IC12	
10MHz to 3GHz VGA with 60dB gain contr.range - CI0456				
ADuC7026BSTZ62-RL	LQFP80	1	IC23	
Precision an. uC 12-bit analog I/O , ARM7TDMI MCU - CI0540				
BAS516	0603D	17	D2, D3, D5, D6, D7, D8, D9	
High speed diode - DIOD0100			D10, D11, D12, D13, D14, D15 D16, D17, D18, D19	
BAT15	SOD323	1	D4	RF
Schottky diode - DIOD0101				
BZT52C9V1-7-F	SOD123	1	DZ1	
Zener diode 9V1 500mW - DIOD0140				
Coax. F		6	Coax1, Coax2, Coax3, Coax4	
Female Coaxial Connector 45K201-400H3			- CONN0760 Coax5, Coax6	
CONN14X3 6C	CONN14X3M-6C	1	P6	
DIN41612 Male connector 90° 3 row 6 Coax	FCT2742621-20		-CONN0756	
DS2703U	uSOIC8	1	IC22	
SHA-1 Battery pack authentication IC - DS2703U			-CI0555	
DT1608C-333	D01813	1	L12	SMD
Inductor-DT1608C - INDU0523				
DT3316P-103-10	DT3316	1	L9	SMD
Inductor DT3316P - INDU0500				
DTC114EKA	SOT23	3	Q7, Q8, Q9	NPN
Digital transistor built-in resistors - TRAN0059				
IDC20M	IDC20	1	JP2	
IDC20 male connector for flat cable - CONN0403				
JMP	SIP3	1	JP1	
Stripline male 3 poles 2,54 mm				
LMC6482AIM	S08	1	IC20	
CMOS Rail to Rail IN & OUT Op.Amp. - CI0028				
LMC6484AIM	S014	1	IC3	

CMOS Rail to Rail Input and output Operational Amplifier - CI00009				TLP
LMC7101BIM5	SOT23-5	1	IC7	
Op. Amplifier with Rail-to-Rail In and Out - CI0420				
LT1721CGN	SSOP16-N	1	IC16	
Single Supply 3V/5V Comparators Rail-to-Rail Out - CI0466				
LT1956EFE	TSSOP16FE	1	IC25	
High-voltage,1.5A, 500KHz Step Down switch. reg. - CI0517				
LT5521EUF	QFN16	1	IC13	
Very High Linear Activity Mixer 3.7GHz - CI0391				
MABA007159	ETC4	2	T1, T3	RF
1:1 Transmission Line Transformer 4.5 3000 MHz MA/COM- TRAS0072				
MABA-008639-TC41T7	ETC4	1	T4	E-
Series RF 1:4 Transmission Line Transformer 6-1000 MHz - TRAS0048				
MAX604CSA	S08	1	IC24	5V/
3.3V or Adj.,LDO, low IQ, 500mA Linear Reg. - CI0039				
MBRS360T3	CASE403	1	D1	
Surface Mount Schottky Power Rectifier 3A-60V - DIOD0066				
MGA-62563	SOT-363	1	IC14	
Current Adj. Low Noise Amplifier 3GHz - CI0355				
MIC5207-5.0BM5	SOT23-5	1	IC4	5V
180mA Low Noise LDO Voltage Regulator - CI0514				
MMBT2222ALT1	SOT23	1	Q3	NPN
Bipolar transistor - TRAN0224				
MMBT2907ALT1	SOT23	5	Q1, Q2, Q4, Q5, Q6	PNP
Bipolar Transistor - TRAN0225				
N.M.	0603R	11	C31, C81, C120, C144, R15	
Multilayer Ceramic Capacitor				
			R58, R91, R92, R108, R114 R127	
N.M.	1210	1	C19	
Multilayer Ceramic Capacitor				
N.M.	90SMX	1	Y1	
Crystal IQDLFA103S CMS-90SMX-VRAC - QUAR0031				
N.M.	D01813	1	L10	
10uH Surface mount DC-DC converter inductor-D01813HC series				
N.M.	ETC4	1	T2	
Matching transformer - TRAS0036				
NFE61PT472	NFE61PT	2	FIL1, FIL2	LC
combined EMI FILTER NFE61PT472C1H9L - FILT0019				
RXE075	RAD0.2C	1	F1	
PolySwitch PTC Devices Tyco - FUSI0044				
SBP-6R4-997BP8A	SBP-6R4	1	U1	SGC
Technologies - 6 poles DR Filter 997 MHz +-4 MHz - FILT0066				
Sc30x50	Schermo_30x50	1	SCH1	
Metal Screen 30x50 mm - MECC2153				
SCHERMO	SCHERMO1	1	SCH2	

Metal shilding can - MEC2152				
SMB	SMB-CS-S	1	P5	SMB
Straight Male Connector - CONN0200				
TPS3307-33D	S08	1	IC26	
Triple processor supervisor sense2 = 3.3V - CI0490				
TPS76801Q	TSSOP20	1	IC11	
Fast transient Response LDO Volt. Reg. 1A - CI0462				
TPS79933DDC	SOT23-5	1	IC1	
Texas Instruments - LDO Linear regulator 200mA ultra low noise - CI0543				