

## Component list

Bill of Materials For Variant [Assembly] of Project [001-013-02-01\_MX7\_Meerkat.PrjPcb] (No PCB Document Selected)

Source Data From: 001-013-02101\_MX7\_96BOARDS.PrjPcb

Project: 001-013-02-01\_MX7\_96BOARDS.PrjPcb

Variant: Assembly



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#	Comment	Description	Footprint	PART	TYPE	Marking	MFG	RoHS	TEMP	Designator												Quantity			
1	18pF	Capacitor 0201 footprint	0201_C	GRM0335C1H180JA01D	SMT		Murata	Yes	-55°C to +125°C	C1, C2, C4, C6, C8, C12, C24, C33, C44, C50, C51, C144													12		
2	47uF	Capacitor 0805 footprint	0805_C	CC0805MXSR5E6B476	SMT		Yageo	Yes		C5, C10, C19, C121													4		
3	1uF	Capacitor 0201 footprint	0201_C	02016D105MAT2A	SMT		Kyocera	Yes		C7, C15, C46, C80, C93													5		
4	0.1uF	Capacitor 0201 footprint	0201_C	CL03A104K03NN3NC	SMT		Samsung	Yes		C8, C17, C18, C21, C30, C43, C47, C54, C58, C60, C61, C62, C63, C64, C65, C66, C68, C69, C70, C72, C73, C75, C76, C77, C83, C84, C86, C87, C88, C90, C91, C92, C94, C95, C98, C100, C102, C104, C105, C108, C110, C111, C112, C113, C114, C116, C119, C120, C122, C123, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C139, C140, C141, C142, C143, C146, C147, C148, C149, C150, C151, C153, C155, C156, C157, C158, C159, C160, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C174, C175, C178, C180, C181, C182, C183, C184, C187, C188, C189, C194, C195, C196, C197															106
5	10uF	Capacitor 0603 footprint	0603_C	CL10A106MQBNN3NC	SMT		Samsung	Yes		C3, C11, C39, C71, C74, C78, C96, C97, C109													9		
6	22uF	Capacitor 0805 footprint	0805_C	CL21A226MQGNNNE	SMT		Samsung	Yes		C13, C14, C35, C36, C57, C117, C137, C161													8		
7	4.7uF	Capacitor 0402 footprint	0402_C	CL05A475MQ5NQ3NC	SMT		Samsung	Yes		C16, C22, C26, C48, C49, C173, C176, C177, C179, C185, C186, C190, C191, C192, C193, C198, C199													17		
8	22uF/25V	Capacitor 0805 footprint	0805_C	CL21A226MAQNNNE	SMT		Samsung	Yes		C23, C40													2		
9	4.7uF/25V	Capacitor 0803 footprint	0803_C	GRM188R61E475KE11D	SMT		Murata	Yes		C29, C42													2		
10	0.1uF/25V	Capacitor 0201 footprint	0201_C	C0603X5R1E104KT00NN	SMT		TDK	Yes		C32, C45													2		
11	2.2uF	Capacitor 0402 footprint	0402_C	GRM155R60G225ME15D	SMT		Murata	Yes		C58, C67, C79, C81, C82, C89, C99, C101, C103, C106, C107, C115, C124, C138													14		
12	SK23-LTP		SMB	SK23-LTP	SMT	S3	MicroCommercial	Yes		D1													1		
13	IP4234CZ6		SC-74 (SOT457)	IP4234CZ6.125	SMT		NXP	Yes	-40°C to +85°C	D2, D10, D11													3		
14	LED-GREEN		0603_LED	LTST-C190GKT	SMT		Lite-On	Yes		D3, D4, D5, D6													4		
15	LED-YELLO		0603_LED	LTST-C190YKT	SMT		Lite-On	Yes		D7													1		
16	LED-BLUE		0603_LED	LTST-C190TBKT	SMT		Lite-On	Yes		D8													1		
17	PDS1240CTL-13		PowerDi5	PDS1240CTL-13	SMT		Diode Inc	Yes	-65°C to +150°C	D9													1		
18	CDSQR4148		0402_D	CDSQR4148	SMT	S3	Comchip	Yes	+125°C	D12, D13, D14													3		
19	BAT54CWT1G		SC70	BAT54CWT1G	SMT		Fairchild	Yes		D15													1		
20	Ferrite		0402_R	MM2100S121C1000	SMT		TDK	Yes	-55°C to +85°C	F82, F83, F84, F85													4		
21	1.65MM Power Jack		PJ-041H	PJ-041H	TH		CUI Inc	Yes		J1													1		
22	20X2		BV20X2_2MM_SOCKET	96BOARDSs-SMT	SMT		Molex	Yes		J2													1		
23	CON3				TH					J3													1		
24	5X2		BHSX2_1.27MM	3220-10-0100-00	TH		CNC Tech			J4													1		
25	30X2		61082_061409LF	61082_061409LF	SMT		Molex			J11													1		
26	MicroSD		MicroSD - MSPN09-08-D	0475890001	SMT		Molex	Yes		J12													1		
27	USB A RA Horizontal		USB_A_RA_H	87520-00108LF	TH		FCI	Yes		J13, J14													2		
28	HDMI		HDMI 10029449-X01	10029449-001R1LF	SMT		FCI	Yes		J15													1		
29	MicroUSB AB		MICROUSB_AB_47589001	0475890001	SMT		Molex	Yes		J16													1		
30	1uH		IND_2.5X2.0X1.2	IFSC1008ABER1R0M01	SMT		VISHAY			L1, L3, L4, L6													4		
31	2.2uH		IND_4X4X2.1_XFL4020	SRW4016-2R2M	SMT		Bourns	Yes	-40°C to +125°C	L2, L8													2		
32	CHOKE		CHOKE_ACM2012_0605	ACM2012-900-2P-T001	SMT		TDK	Yes	-40°C to +85°C	L9, L10, L11													3		
33	TIW-L-WB		TIW-L-WB	450-0152	SMT		Laird	Yes		M1													1		
34	0	Resistor	OPT_RES_0402	RC0402JR-070RL	SMT		Yageo	Yes		OP1													1		
35	12K	Resistor 0201 footprint	0201_R	RC0201FR-0712KL	SMT		Yageo	Yes		R1, R2, R14, R21, R66, R68, R76, R78, R89, R92, R94, R105, R115, R122, R124, R125, R133, R134, R135, R136													20		
36	0.02	Resistor 0805 footprint	0805_R	RJL012FR020CS	SMT		Samsung	Yes	-55°C to +155°C	R3, R6, R22, R73													4		
37	33K	Resistor 0402 footprint	0402_R	RC0402FR-0733KL	SMT		Yageo	Yes		R4, R61, R106													3		
38	100K	Resistor 0201 footprint	0201_R	RC0603F104CS	SMT		Panasonic	Yes		R5, R7, R9, R10, R23, R62, R63, R74, R84													9		
39	1M	Resistor 0201 footprint	0201_R	RC0201FR-071ML	SMT		Yageo	Yes	-55°C to +125°C	R6, R24, R26, R28, R29													5		
40	0.02	Resistor 1206 footprint	1206_R	CSR1206FK20L0	SMT		Stackpole	Yes	-55°C to +155°C	R11, R27, R51													3		
41	205K	Resistor 0402 footprint	0402_R	ERJ-2RKF2053X	SMT		Panasonic	Yes		R12													1		
42	200	Resistor 0201 footprint	0201_R	RC0630J201CS	SMT			Yes		R15, R17													2		
43	18.2K	Resistor 0402 footprint	0402_R	RC0402FR-0718K2L	SMT		Yageo			R16, R36													2		
44	240	Resistor 0201 footprint	0201_R	RMCF0201FG240R	SMT		Stackpole	Yes		R18, R19, R71, R111, R112, R113, R114, R126, R127, R128, R129, R131, R132													13		
45	158K	Resistor 0402 footprint	0402_R	RC0402FR-07158KL	SMT		Yageo			R20													2		
46	187K	Resistor 0402 footprint	0402_R	RC0402FR-07187KL	SMT		Yageo			R25, R33													1		
47	0	Resistor 0201 footprint	0201_R	ERJ-1GEF100Z	SMT		Panasonic	Yes		R41, R43, R57, R67, R75													5		
48	1.2K	Resistor 0201 footprint	0201_R	ERJ-1GEF1201C	SMT		Panasonic	Yes		R49, R50, R52, R53, R54, R55, R56, R65, R80, R81, R108, R110, R121, R123													14		
49	470	Resistor 0201 footprint	0201_R	ERJ-1GEF1002C	SMT		Panasonic	Yes		R69													1		
50	80.6K	Resistor 0402 footprint	0402_R	RC0402FR-0780K9L	SMT		Yageo			R72													1		
51	Switch_TACK	Switch, 2 contacts	KMR2	KMR241NG ULC LFS	SMT		C&K	Yes	-40°C to +85°C	SW1, SW2													2		
52	SW DIP-2		218-02 DIP SW	21																					
53	1M07		BGA5441CP7P25K25_19	00X1900X140	SMT		NOX	Yes		U2													1		
54	LTC3589-2	8-Output Regulator with Sequencing and I2C	QFN104_8mmx6mm	LTC3589EUAJPF	SMT		LINEAR	Yes	-40°C to +85°C	U3													1		
55	DDR3_X16_BGA98		BGA98C80P16X9_1400	X900A120	SMT		ISSI			U4													1		
56	LT8609	42V, 2A/3A Peak Synchronous Step-Down Regulator	MSOP10_0_MSE	LT8609EMSE#TRPBF	SMT	LTGRW	Linear	Yes	-40°C to +125°C	U5, U7													2		
57	USB2513B-AEZC	IC USB 2.0 4PORT HUB CTLR	QFN36_6X6	USB2513B-AEZC	SMT		Microchip (SMCS)	Yes	0° to +70°C	U6													1		
58	NCP303L3N13T1	Voltage Detector Series with Programmable Delay	SOT23-5	NCP303L3N13T1	SMT	SDA	On Semi	Yes	-40°C to +125°C	U8													1		
59	TD19A988	HDMI 1.4 transmitter with HDCP and CEC support	QFN64_50P900X30X10	0.64mm, 5.1mm PAD	SMT		NXP	Yes	-20°C to +85°C	U9													1		
60	IP4791CZ12	HDMI ESD protection, level shifter and backdrive protection	HXS3N212	IP4791CZ12.132	SMT		NXP	Yes	-40°C to +85°C	U10													1		
61	AP2151_DFN		DFN6-2MMX2MM	AP2151FMG-7	SMT	HS	Diode Inc.	Yes		U11, U12													2		
62	24MRH		OSCC_SMT_1.6X1.2	418F24022MRH	SMT		CTX, MuRata	Yes	-40° to +85°C, -30° to +85°C	Y1, Y3													2		
63	32.7680K		CRYSTAL_ST3215_3.2MMx1.5MM	ST32155B32768H5PWAA	SMT		AVX	Yes	-40°C to +85°C	Y2													1		
64	NCP708	LDO			SMT		On Semi	Yes		U1													1		





















