

ALICE TPC Front End Card (id: 40021090)

Bill of Material

Part Name	JEDEC_TYPE	Reference on Board Schematic Design	Value	Voltage	Qty	Note	MANUFACTURER
24LC01B_SOIC	SOIC8S_127	IC21			1		Microchip - 24LC01B-SOIC
GTL16612_TSSOP	TSSOP56MC_050	IC22-IC28			7		PHILIPS - GTL16612DGG - TSSOP56
AD7417_TSSOP	TSOP16MA_065	IC4			1		Analog Dev. - AD7417ARU -TSSOP
ALTRO-ST	TQFP176_050	IC8,IC9,IC10,IC11,IC29,IC30,IC31,IC32			8		CUSTOM - ALTRO16
BAT54	SOT23	U1,U2,U3			3		Philips - BAT54 - SOT23
BORNE2P-H3486	SOCKET_H3486	B1,B2			2		Harwin - H3486-01
CAPCERSMDCL1_0603-10PF,50V	C0603	C4-C10,C156,C330	10pF	50V	9		Kemet - ceramic COG
CAPCERSMDCL1_0603-470PF,50V	C0603	C168,C169,C178,C182,C188	470pF	50V	5		Kemet - ceramic COG
CAPCERSMDCL2_0603-100NF,16V	C0603	C32-C47,C52,C53,C54,C55,C57,	100nF	16V	230		Kemet - ceramic X7R
		C61-C119,C124-C133,C142-C153,					
		C155,C158-C165,C170,C175,					
		C180,C189,C190,C192,C198,C199,					
		C200,C201,C204,C206,C209,C211,					
		C212,C219-C234,C238,C239,C240,					
		C241,C243,C247-C305,C320-C327,					
		C334-C341,C343-C350					

CAPCERSMDCL2_0603-10NF,50V	C0603	C157,C310-C317,C319,C331,C332,C333	10nF	50V	13		Kemet - ceramic X7R
CAPCERSMDCL2_0603-4.7NF,50V	C0603	C28,C29,C30,C31,C185,C215, C216,C217,C218	4.7nF	50V	9		Kemet - ceramic X7R
CAPCERSMDCL2_0805-100NF,50V	C0805	C12-C27,C177,C179,C184,C193,C203, C208,C318	100nF	50V	23		Kemet - ceramic X7R
CAPCERSMDCL2_0805-10NF,50V	C0805	C11,C167,C174,C181,C194,C202, C207,C210	10nF	50V	8		Kemet - ceramic X7R
CAPCERSMDCL2_0805-2.2UF,10V	C0805	C134-C141	2.2uF	10V	8		Murata - GRM21series - Y5V
CAPCERSMDCL2_0805-4.7UF,10V	C0805	C48,C49,C50,C51,C56,C58,C59, C60,C120,C121,C122,C123,C172, C195,C235,C236,C237,C242,C244, C245,C246,C306,C307,C308,C309	4.7uF	10V	25		Murata - GRM21series - Y5V
CAPCERSMDCL2_0805-470NF,16V	C0805	C1,C154,C166,C328	470nF	16V	4		Kemet - ceramic Y5V
CON26P-EHT113_RA_LC	CON26MC_EHT2MM	J1			1		Samtec - EHT-113-01-S-D-RA-LC
CON4P-FCI4MC	CON4MCSHR_254	J4			1		FCI - DUBOX 76382-304
CON4P-SL508_4_90B	CON4SL50890B	J3			1		Weidmuller - SL 5.08/4/90B-151056
CON50P-EHT125_RA_LC	CON50MC_EHT2MM	J2			1		Samtec - EHT-125-01-S-D-RA-LC
ELCAPTAN_SMD-10UF,25V	C7343POL	C2,C3	10uF	25V	2		Kemet - Tantalum SMD D series
ELCAPTAN_SMD-15UF,10V	C3216POL	C186,C191	15uF	10V	2		AVX - TPSA156K010R1000
ELCAPTAN_SMD-2.2UF,20V	C3528POL	C171,C183,C196,C197,C213	2.2uF	20V	5		Kemet - Tantalum SMD B series
ELCAPTAN_SMD-2.2UF-AVX,20V	C3216POL	C173,C176,C329,C342	2.2uF	20V	4		AVX - TPSA225K020R3000

ELCAPTAN_SMD-22UF,10V	C3528POL	C187,C205,C214	22uF	10V	3		AVX - TPSB226K010R0500
EP1K30_TQFP	TQFP144_050	IC6			1		Altera - ACEX EP1K30TC144-3
EPC1_DIP	DIP8_3 - Pin Carrier	IC7			1	(*)	Altera - EPC1PC8 - DIP
HARWINFPC1MM_BOT	CONFPC1MM_BOT	J5-J10			6		Harwin - F10-2802306
LM4041_1V2_SOT	SOT23	IC14		1225mV	1		Micrel- LM4041CIM3-1.2
LM4040_2V5_SOT	SOT23	IC20		2500mV	1		Micrel- LM4040CIM3-2.5
MIC29371_TO263_5-3.3V	TO263_5	IC3		3.3V	1		Micrel - MIC29371-3.3BU TO263-5
MIC39151_TO263	TO263_5	RE1,RE2,RE3		2.5V	3		Micrel - MIC39151-2.5BU TO263-5
MPC940L / MPC9109	TQFP32_080	IC2,IC5			2		Motorola - MPC9109FA TQFP32
OPA4364_TSSOP	TSSOP14MA_065	IC12,IC13,IC19			3		Burr-Brown (TI) - OPA4364AIPW
PASA_AMS	TQFP144_050	IC15,IC16,IC17,IC18,IC33,IC34,IC35,IC36			8		CUSTOM - ALICE_PASA
R8SMD-2K2	LCC10_1206	RS1	2K2		1		Phicomp - Res.Net. 2350 230 10 222
RSMD0603_1/16W-00,1%	C0603	R3,R4,R5,R6,R42,R85	0	RVMAX	6		
RSMD0603_1/16W-10K,1%	C0603	R48,R51,R59,R63,R64,R92,R113, R126,R155	10k	RVMAX	9		
RSMD0603_1/16W-180,1%	C0603	R57,R124,R128,R131,R141,R142, R145,R147,R150	180	RVMAX	9		
RSMD0603_1/16W-1K,1%	C0603	R14-R20,R32,R75,R76,R77,R78, R87,R91,R119,R120,R160,R161,R162	1k	RVMAX	19		
RSMD0603_1/16W-1K5,1%	C0603	R68,R69,R70	1k5	RVMAX	3		
RSMD0603_1/16W-20K,1%	C0603	R45,R46	20k	RVMAX	2		

RSMD0603_1/16W-220,1%	C0603	R7,R8,R21-R27,R95	220	RVMAX	10		
RSMD0603_1/16W-2K,1%	C0603	R1	2k	RVMAX	1		
RSMD0603_1/16W-2K2,1%	C0603	R58,R83,R89,R90,R102,R103,	2k2	RVMAX	16		
		R117,R122,R123,R127,R130,R140,					
		R143,R146,R148,R151					
RSMD0603_1/16W-2K7,1%	C0603	R37-R41,R84,R133-R137	2k7	RVMAX	11		
RSMD0603_1/16W-33,1%	C0603	R36,R43,R44,R47,R49,R50,R60,R61,R62	33	RVMAX	9		
RSMD0603_1/16W-3K3,1%	C0603	R2,R13,R67,R96,R108,R109,R152,R153	3k3	RVMAX	8		
RSMD0603_1/16W-4K7,1%	C0603	R28,R29,R30,R31,R33,R34,R35,	4k7	RVMAX	12		
		R86,R110,R111,R116,R118					
RSMD0805_125MW-00,JUMPER	S20X12	R12,R88,R121,R132	0	RVMAX	4		
RSMD0805_125MW-1.1K,1%	S20X12	R79,R168	1.1K	RVMAX	2		
RSMD0805_125MW-1.8K,1%	S20X12	R163	1.8K	RVMAX	1		
RSMD0805_125MW-1K,1%	S20X12	R144,R149	1K	RVMAX	2		
RSMD0805_125MW-1M,1%	S20X12	R97,R98,R101,R125	1M	RVMAX	4		
RSMD0805_125MW-2.2K,1%	S20X12	R94,R100,R106,R114	2.2K	RVMAX	4		
RSMD0805_125MW-2.7K,1%	S20X12	R9,R93,R99,R107,R115,R166,R167	2.7K	RVMAX	7		
RSMD0805_125MW-220,1%	S20X12	R80	220	RVMAX	1		
RSMD0805_125MW-240,1%	S20X12	R52-R56,R65,R66,R82,R104,R129,	240	RVMAX	12		
		R138,R154					
RSMD0805_125MW-3.9K,1%	S20X12	R164,R165	3.9K	RVMAX	2		

RSMD0805_125MW-430,1%	S20X12	R81	430	RVMAX	1		
RSMD0805_125MW-68,1%	S20X12	R71,R72,R73,R74,R105,R112,	68	RVMAX	11		
		R139,R156,R157,R158,R159					
RSMD2512_1W-0R15,5%	C2512	R10	0R15	RVMAX	1		Meggitt CGS - RL73 series
RSMD2512_1W-0R27,5%	C2512	R11	0R27	RVMAX	1		Meggitt CGS - RL73 series
SO2222A	SOT23	Q1,Q2,Q3			3		Motorola - MMBT2222ALT1-SOT23
TC1173_SOIC	SOIC8S_127	IC1		3.3V	1		Microchip - TC1173-33VOA-SOIC
TP	TP - Pin Carrier	TP1-TP24			24	(*)	Precimation

(*) To be equipped with Pin Carriers 714-93-132-31-012 by Precimation