

Notes for CBA	Item	Quantity	Reference	Part	Footprint	Description	Manufacturer	Mfg part #	Digikey Part #	qty
	1	19	C1,C2,C3,C4,C6,C7,C8,C14,C15,C16,C17,C19,C20,C21,C22,C28,C35,C42,C43	0.1uF	SM0603	CAP CER 0.1UF 50V X7R 0603	Samsung	CL10B104KB8NNNC	1276-1000-1-ND	250
No load	2	26	C9,C10,C11,C12,C13,R20,R21,C24,C25,C36,C37,C38,R39,C39,C40,C41,R64,R66,R68,R70,R72,R74,R81,R82,R84,R86	NO_LOAD	SM0603					
	3	2	C26,C27	1000pF	SM0603	CAP CER 1000PF 50V X7R 0603	Samsung	CL10B102KB8NNNC	1276-1018-1-ND	0
	4	2	C29,C32	22uF	CAPC3225X279N	CAP CER 22UF 10V X7R 1210	Murata	GCM32ER71A226KE12L	490-4797-1-ND	25
	5	2	C30,C33	10uF	CAPC3225X279N	CAP CER 10UF 25V X7R 1210	Samsung	CL32B106KAULNNE	1276-3322-1-ND	25
	6	2	C31,C34	3300 pF	SM0603	CAP CER 3300PF 50V X7R 0603	Samsung	CL10B332JB8NNNC	1276-2030-1-ND	0
	7	2	D1,D2	LED2	LEDC1608X80N	LED GREEN CLEAR CHIP SMD	Lite-On	LTST-C190GKT	160-1183-1-ND	25
	8	3	F1,F3,F5	IF-E96	IF-E96	LED FIBER OPTIC 645NM RED	Industrial Fiberoptics	IF-E96E	FB162-ND	30
Short parts, install the parts provided, ship short the rest	9	1	F2	IF-D96F	IF-D95	DETECTOR PHOTOLOG FIB OPT 5 TTL	Industrial Fiberoptics	IF-D96F	FB142-ND	10
Short parts, install the parts provided, ship short the rest	10	2	F4,F6	IF-D95OC	IF-D95	DETECTOR PHOTOLOGIC 5 TTL	Industrial Fiberoptics	IF-D95OC	FB124-ND	25
No load	11	1	ISO1	NO_LOAD	SOIC254P680X239-4N					
	12	1	J1	CONN PCB 2	SAMTEC_4MM-102-01-X-S-RAP	CONN HEADER R/A 2POS 3.96MM	Molex	26615020	WM5235-ND	10
	13	2	J3,J4	CONN RCPT 5x2/SM	SAMTEC_TSW-105-08-X-D-RAP	.025" SQ. TERMINAL STRIPS	SAMTEC	TSW-105-08-F-D-RA	SAM10337-ND	20
	14	1	J5	CONN RCPT 10x2	SAMTEC_TSW-110-08-X-D-RAP-MOD	.025" SQ. TERMINAL STRIPS	SAMTEC	TSW-110-08-F-D-RA	SAM10352-ND	10
No Load	15	1	J6	NO_LOAD	SAMTEC_TSW-105-08-X-S-RAP					
	16	1	J7	CONN RCPT 3	SAMTEC_TSW-103-08-X-S-RAP-MOD	CONN HEADER R/A 3POS 2.54MM	Molex	22-12-2031	WM2734-ND	10
No Load	17	4	J8,J9,J10,J11	NO_LOAD	SAMTEC_TSW-103-08-X-D-RAP-MOD					
No Load	18	1	J12	NO_LOAD	SAMTEC_TSW-104-08-X-D-RAP-MOD					
	19	1	P1	CONN PLUG 6	SAMTEC_TSW-106-08-X-SP	CONN SOCKET 6POS 0.1 GOLD PCB	Samtec	ESW-106-23-G-S	SAM11126-ND	10
	20	2	P8,P9	CONN SOCKET 23x2	SAMTEC_TSW-123-08-X-DC-MOD	CONN HDR 46POS 0.1 STACK T/H	Samtec	DW-23-15-F-D-295		25
	21	2	Q1,Q2	2N7002W	SOT65P210X110-3N	MOSFET N-CH 60V 115MA SOT323	Diodes	2N7002W-7-F	2N7002W-FDICT-ND	25
	22	3	R1,R2,R3	130	SM0603	RES SMD 130 OHM 1% 1/10W 0603	Yaego	RC0603FR-07130RL	311-130HRCT-ND	0
	23	15	R4,R5,R6,R7,R8,R9,R10,R11,R12,R13,R14,R15,R16,R17,R18	330	SM0603	RES SMD 330 OHM 1% 1/10W 0603	Yaego	RC0603FR-07330RL	311-330HRCT-ND	100
	24	8	R19,R22,R23,R28,R29,R40,R75,R76	10k	SM0603	RES SMD 10K OHM 1% 1/10W 0603	Yaego	RC0603FR-0710KL	311-10.0KHRCT-ND	100
	25	1	R30	249k 1%	SM0603	RES SMD 249K OHM 1% 1/10W 0603	Yaego	RC0603FR-07249KL	311-249KHRCT-ND	0
	26	4	R31,R35,R36,R38	47.5k 1%	SM0603	RES SMD 47.5K OHM 1% 1/10W 0603	Yaego	RC0603FR-0747K5L	311-47.5KHRCT-ND	0
	27	2	R32,R33	470	SM0603	RES SMD 470 OHM 1% 1/10W 0603	Yaego	RC0603FR-07470RL	311-470HRCT-ND	0
	28	1	R34	150k 1%	SM0603	RES SMD 150K OHM 1% 1/10W 0603	Yaego	RC0603FR-07150KL	311-150KHRCT-ND	0
	29	6	R41,R44,R47,R50,R53,R56	2.05k	SM0603	RES SMD 1.15K OHM 1% 1/10W 0603	Yaego	RC0603FR-072K05L	311-2.05KHRCT-ND	0
	30	6	R42,R45,R48,R51,R54,R57	1.15k	SM0603	RES SMD 1.15K OHM 1% 1/10W 0603	Yaego	RC0603FR-071K05L	311-1.15KHRCT-ND	100
	31	8	R43,R46,R49,R52,R55,R58,R61,R62	1M	SM0603	RES SMD 1M OHM 1% 1/10W 0603	Yaego	RC0603FR-071ML	311-1.00MHRCT-ND	100
	32	9	R63,R65,R67,R69,R71,R73,R77,R78,R79	1k	SM0603	RES SMD 1K OHM 1% 1/10W 0603	Yaego	RC0603FR-071KL	311-1.00KHRCT-ND	100

	33	3	R80,R83,R85	0	SM0603	RES SMD 0 OHM JUMPER 1/10W 0603	Yaego	RC0603JR-070RL	311-0.0GRCT-ND	100
No Load	34	12	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,T P9,TP10,TP11,TP12	TestPoint	Test_point_L					
	35	1	U1	74ACT240	SOP65P780X200-20N	IC BUFFER INVERT 5.5V 20SSOP	TI	SN74ACT240DBR	296-4377-1-ND	10
	36	2	U2,U3	MAX3098EA	SOIC127P600X150-16N	IC RS485/422 RX 32MBPS 16-SOIC	Maxim	MAX3098EAESE+	MAX3098EAESE+-ND	20
	37	1	U4	NO_LOAD	SOP65P780X200-16N					
	38	1	U5	74LVC244/SO	SOP65P780X200-20N	IC BUF NON-INVERT 3.6V 20SSOP	TI	SN74LVC244ADBR	296-8499-1-ND	10
	39	1	U6	74ACT244/SO	SOP65P780X200-20N	IC BUF NON-INVERT 5.5V 20SSOP	TI	SN74ACT244DBR	296-1069-1-ND	10
	40	2	U10,U11	NO_LOAD	SOIC127P600X175-14N					
	41	2	U12,U13	TPS82150	SON65P300X280X150-9N	DC DC CONVERTER 0.9-6V	TI	TPS82150SILR	296-50509-1-ND	20
	42	2	U14,U15	TLV4376	SOP65P640X110-14N	IC OP AMP RR 5.5MHZ 14TSSOP	TI	TLV4376IPWR	296-46609-1-ND	20
	43	1	U16	TMP121	SOT95P280X145-6N	SENSOR DIGITAL -40C-125C SOT23-6	TI	TMP121AIDBVR	296-31975-1-ND	10
	44	2	U17,U18	74LVC1G04	SOT95P280X110-5N	IC INVERTER 1CH 1-INP SOT23-5	TI	SN74LVC1G04DBVR	296-11599-1-ND	20
	45	1	P10	CONN PLUG 6	SAMTEC_TSW-106-08-X-SP	CONN HEADER VERT 6POS 2.54MM	Amphenol	68000-406HLF	609-3263-ND	10