



AR0821-IBGA95_Demo3Head_SER

P/N AR0821

Rev 0.0

RoHS

August 02, 2019

Item	Quantity	Part Reference	Value	Package	Description	Manufacturer	Manufacturer Part Number	Changes	Notes	Suitable Subs
1	23	C14 C15 C42 C43 C44 C47 C48 C49 C51 C53 C54 C56 C58 C60 C62 C63 C64 C65 C66 C67 C68 C69 C71	100nF	201	CAP, CERAMIC, 100nF, 10V, X5R, 20%, 0201	Panasonic	ECJZEB1A104M			GRM033R61A104ME15D
2	23	C34 C35 C36 C37 C39 C40 C50 C52 C55 C57 C59 C61 C70 C166 C167 C168 C169 C170 C171 C172 C173 C174 C175	10uF	3216-18	CAP, TANTALUM CHIP, STD, 10uF, 10V, 10%, 3216	AVX	TAJA106K010R			TAJA106K010RNJ
3	12	C106 C115 C124 C127 C130 C135 C138 C143 C146 C153 C160 C163	10uF	3216-18	CAP, TANTALUM CHIP, LOW ESR, 10uF, 10V, 10%, 3216	AVX	TPSA106K010R0900			
4	24	C107 C108 C109 C110 C116 C117 C118 C119 C125 C128 C131 C132 C136 C139 C140 C144 C147 C148 C149 C154 C155 C156 C161 C164	100nF	201	CAP, CERAMIC, 100nF, 10V, X7S, 20%, 0201, -55/+125C	TDK	C0603X7S1A104M030			
5	2	D1 D2	GRN	603	DIODE, LED, CHIP, GRN, CLEAR LENS, 2.0V, 20mA, SMD, 0603	Lite-On	LTST-C190KGKT			
6	1	J1	CON52-2x26-J (QFS)		CONN, SOCKET, HIGH SPEED, 2x26, 52 SIG PINS, 0.635MM PITCH, ALGNMNT PINS, 1 GND BUS PIN, LIGHT GOLD PLT'G, RETENTION PINS	Samtec	QFS-026-04.25-L-D-A-RT1			
7	2	L9 L10	1.4A	603	IND, FERRITE CHIP, 220 OHM AT 100MHZ, 0.1 OHM DC, 0603	Murata	BLM18PG221SN1D			
8	1	P7	HDR4-1x4-P		CONN, HEADER, VERTICAL, 1x4, 4 PIN, 2MM PITCH, THRU-HOLE	3M	951104-8622-AR			
9	2	P8 P10	HDR3-1x3-P		CONN, HEADER, VERTICAL, 1x3, 3 PIN, 2MM PITCH, THRU-HOLE	3M	951103-8622-AR			
10	1	P13	HDR6-2x3-P		CONN, HEADER, VERTICAL, 2x3, 6 PIN, .100 PITCH, 25 MIL SQ POSTS	Tyco Electronics	87227-3			
11	12	P15 P40 P41 P42 P43 P44 P45 P46 P47 P48 P49 P50	HDR2-1x2-P		CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	3M	951102-8622-AR			
12	1	P20	HDR4-2x4-P (TMM)		CONN, HEADER, LOW PROFILE, VERTICAL, 2x4, 8 PIN, 2.0MM PITCH, 20 MIL SQ POSTS, THRU-HOLE	Samtec	TMM-104-01-G-D			
13	1	P24	HDR6-2x3-P		CONN, HEADER, VERTICAL, 2x3, 6 PIN, 2MM PITCH, THRU-HOLE	3M	951206-8622-AR			
14	2	P25 P26	HDR10-2x5-P		CONN, HEADER, SHROUDED, VERTICAL, 2x5, 10 PIN, 2.0MM PITCH, CENTER POLARIZATION SLOT, THRU-HOLE	Molex	87831-1020			
15	1	P27	HDR4-2x2-P		CONN, HEADER, VERTICAL, 2x2, 4 PIN, 2MM PITCH, THRU-HOLE	3M	951204-8622-AR			
16	1	Q1	SMMBT2222ALT1G	SOT23	TRANSISTOR, NPN, 40V, 600mA, SMD, SOT23, AEC-Q101 Qualified	ON Semiconductor	SMMBT2222ALT1G			
17	2	R1 R23	560	402	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 0.063W, 5%, 0402	Panasonic	ERJ2GEJ561X			
18	1	R2	1K	402	RESISTOR, PRECISION THICK FILM CHIP, SMD, 1K, 0.1W, 1%, 0402, Automotive grade, AEC-Q200 compliant	Panasonic	ERJ-2RKF1001X			
19	6	R5 R10 R16 R34 R35 R48	0	402	RESISTOR, THICK FILM CHIP, SMD, 0 OHM JUMPER, 0.063W, 5%, 0402	Panasonic	ERJ2GE0R00X			
20	1	R7	0	603	RESISTOR, THICK FILM CHIP, SMD, 0 OHM JUMPER, 0.1W, 5%, 0603	Panasonic	ERJ3GEY0R00V			
21	18	R13 R18 R32 R39 R40 R41 R42 R43 R44 R45 R46 R47 R50 R85 R86 R87 R88 R90	10K	402	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402	Panasonic	ERJ2GEJ103X			
22	2	R25 R26	10K	603	RESISTOR, PRECISION THICK FILM CHIP, SMD, 10K, 0.1W, 1%, 0603	Panasonic	ERJ3EFK1002V			
23	4	R27 R28 R29 R31	33	402	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 0.063W, 5%, 0402	Panasonic	ERJ2GEJ330X			
24	1	R30	100K	402	RESISTOR, THICK FILM CHIP, SMD, 100K, 0.063W, 5%, 0402	Panasonic	ERJ2GEJ104X			
25	1	SW1	PB-SPST		SWITCH, PUSH BUTTON, TACTILE, MOM, 2 PIN, SPST-NO, 0.05A @ 24VDC, SMD	TE Connectivity	147873-2			
26	1	SW2	TS3A24157DGSR	MSOP10	IC, ANALOG SWITCH, DUAL SPDT, 600 mOHM, VOLTAGE SUPPLY 1.65V TO 3.6V, CURRENT SUPPLY 15nA, MSOP10	Texas Instruments	TS3A24157DGSR			
27	2	TP6 TP7	TSTPT-5016		CONN, TERMINAL, TEST POINT COMPACT, .015 THICK, SMT	Keystone Electronics	5016			
28	1	U1	LT3020EMS8-ADJ	MSOP8	IC, VOLTAGE REGULATOR, POSITIVE, VLDO, ADJ, 100mA, 0.2 TO 9.5V OUTPUT, MSOP8	Linear Technology	LT3020EMS8#PBF			
29	3	U2 U3 U4	SN74LVC1G17-Q1	SOT23-5	IC, BUFFER, SINGLE SCHMITT-TRIGGER, 32mA, 1.65V TO 5.5V, SOT23-5, Automotive part	Texas Instruments	SN74LVC1G17QDBVRQ1			
30	1	U5	SN74AUP1G08-Q1	SC70-5	IC, AND GATE, SINGLE, 2 INPUT POSITIVE, 20mA, 0.8V TO 3.6V, SC70-5, Automotive part	Texas Instruments	SN74AUP1G08DCKR			
31	1	U6	ADM6711	SC70-4	IC, SUPERVISOR, MICROPROCESSOR POWER SUPPLY, 2.93V, ACTIVE LOW RESET, SC70-4	Analog Devices	ADM6711SAKSZ-REEL7			
32	1	U7	MAX3373E	SOT23-8	IC, LEVEL TRANSLATOR, DUAL, LOW VOLTAGE, 8MBPS, 1.65V TO 5.5V, SOT23-8	Maxim	MAX3373EKA+T			
33	1	U8	24AA64-I/SN	SO8	IC, SERIAL EEPROM, I2C, 64Kbit, 1.8V, 400KHz, SO8	Microchip	24AA64-I/SN			
34	1	U9	AR0821-DEMO_IBGA95	IBGA95	IC, SENSOR, ACTIVE-PIXEL DIGITAL IMAGE, CMOS, AR0821, R082A DEMO, IBGA95	ON Semiconductor	AR0821_R082A			
35	1	Y1	27MHz		OSC, CRYSTAL CLOCK, SMD, CMOS, 1.7V TO 3.6V, 5mA, 27.0000MHz, 2.5MM x 2.0MM	MICREL	DSC1001DL5-027.0000T			

REVISION HISTORY

AR0821_IBGA95_DEMO3HEAD_SER

Board Number: AR0821

Date	Revision	Description of Change(s)
August 02, 2019	0	Initial BOM