



AR0145-CSP47_Demo3Head_SER

P/N AR0145

Rev 0.2

RoHS

August 05, 2024

Item	Part Reference	Quantity	Description	Value	Tolerance	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
1	C2 C20 C27 C32 C74 C81	6	CAP, TANTALUM CHIP, LOW ESR, 10uF, 10V, 10%, 3216	10uF	10%	AVX	TPSA106K010R0900	NO	YES
2	C4 C5 C6 C8 C11 C34 C35 C36 C37 C50 C52 C55 C57 C59 C61 C70	16	CAP, TANTALUM CHIP, STD, 10uF, 10V, 10%, 3216	10uF	10%	AVX	TAJA106K010R	NO	YES
3	C10 C13 C14 C15 C21 C22 C28 C29 C33 C40 C41 C42 C43 C44 C45 C47 C48 C49 C51 C53 C54 C56 C58 C60 C62 C63 C64 C65 C66 C67 C68 C69 C71 C75 C76 C77 C82 C83 C87 C88	40	CAP, CERAMIC, 100nF, 10V, X7S, 20%, 0201, -55/+125C	100nF	20%	TDK	C0603X7S1A104M030	NO	YES
4	D1	1	DIODE, LED, CHIP, GRN, CLEAR LENS, 2.0V, 20mA, SMD, 0603	GRN		Lite-On	LTST-C190KGKT	NO	YES
5	J1	1	CONN, SOCKET, HIGH SPEED, 2x26, 52 SIG PINS, 0.635MM PITCH, ALGNMNT PINS, 1 GND BUS PIN, LIGHT GOLD PLT'G, RETENTION PINS	CON52-2x26-J (QFS)		Samtec	QFS-026-04.25-L-D-A-RT1	NO	YES
6	P1 P3 P4 P15	4	CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	HDR2-1x2-P		3M	951102-8622-AR	NO	YES
7	P7	1	CONN, HEADER, VERTICAL, 1x4, 4 PIN, 2MM PITCH, THRU-HOLE	HDR4-1x4-P		3M	951104-8622-AR	NO	YES
8	P8 P10	2	CONN, HEADER, VERTICAL, 1x3, 3 PIN, 2MM PITCH, THRU-HOLE	HDR3-1x3-P		3M	951103-8622-AR	NO	YES
9	P13 P24	2	CONN, HEADER, VERTICAL, 2x3, 6 PIN, 2MM PITCH, THRU-HOLE	HDR6-2x3-P		3M	951206-8622-AR	NO	YES
10	P20	1	CONN, HEADER, LOW PROFILE, VERTICAL, 2x4, 8 PIN, 2.0MM PITCH, 20 MIL SQ POSTS, THRU-HOLE	HDR4-2x4-P (TMM)		Samtec	TMM-104-01-G-D	NO	YES
11	P25 P26	2	CONN, HEADER, SHROUDED, VERTICAL, 2x5, 10 PIN, 2.0MM PITCH, CENTER POLARIZATION SLOT, THRU-HOLE	HDR10-2x5-P		Molex	87831-1020	NO	YES
12	P27	1	CONN, HEADER, VERTICAL, 2x2, 4 PIN, 2MM PITCH, THRU-HOLE	HDR4-2x2-P		3M	951204-8622-AR	NO	YES
13	R2 R9 R13 R17 R18 R32 R39 R40 R41 R42 R43 R44 R45 R46 R47	15	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402, AEC-Q200 compliant	10K	5%	Panasonic	ERJ2GEJ103X	NO	YES
14	R7	1	RESISTOR, THICK FILM CHIP, SMD, 0 OHM JUMPER, 0.1W, 5%, 0603, AEC-Q200 compliant	0	5%	Panasonic	ERJ3GEY0R00V	NO	YES
15	R10 R16 R34 R35 R48	5	RESISTOR, PRECISION THICK FILM CHIP, SMD, 0 Ohm, 0.1W, 1%, 0402, Automotive grade, AEC-Q200 compliant	0	1%	Panasonic	ERJ2GE0R00X	NO	YES
16	R23	1	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 0.063W, 5%, 0402, AEC-Q200 compliant	560	5%	Panasonic	ERJ2GEJ561X	NO	YES
17	R27 R28 R29 R31	4	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 0.063W, 5%, 0402, AEC-Q200 compliant	33	5%	Panasonic	ERJ2GEJ330X	NO	YES
18	R30	1	RESISTOR, THICK FILM CHIP, SMD, 100K, 0.063W, 5%, 0402	100K	5%	Panasonic	ERJ2GEJ104X	NO	YES
19	R37 R38	2	RESISTOR, PRECISION THICK FILM CHIP, SMD, 1K, 0.1W, 1%, 0402, Automotive grade, AEC-Q200 compliant	1K	1%	Panasonic	ERJ-2RKF1001X	NO	YES
20	SW1	1	SWITCH, PUSH BUTTON, TACTILE, MOM, 2 PIN, SPST-NO, 0.05A @ 24VDC, SMD	PB-SPST		TE Connectivity	147873-2	NO	YES
21	SW3	1	IC, ANALOG SWITCH, DUAL SPDT, 600 mOHM, VOLTAGE SUPPLY 1.65V TO 3.6V, CURRENT SUPPLY 15nA, MSOP10	TS3A24157DGSR		Texas Instruments	TS3A24157DGSR	NO	YES
22	TP6 TP7	2	CONN, TERMINAL, TEST POINT COMPACT, .015 THICK, SMT	TSTPT-5016		Keystone Electronics	5016	NO	YES
23	U1	1	IC, SENSOR, ACTIVE-PIXEL DIGITAL IMAGE, CMOS, AR0145, DEMO HDBD, CSP47	AR0145-DEMO_CSP47		ON Semiconductor	AR0145-DEMO_CSP47	NO	YES
24	U2 U3 U4 U5	4	IC, CONFIGURABLE MULTIFUNCTION GATE, SCHMITT-TRIGGER, 100mA, 1.65V TO 5.5V, SC70-6, AEC?Q101	NLV7SZ97D		ON Semiconductor	NLV7SZ97DFT2G	NO	YES
25	U6	1	IC, SUPERVISOR, MICROPROCESSOR POWER SUPPLY, 2.93V, ACTIVE LOW RESET, SC70-4	ADM6711		Analog Devices	ADM6711SAKSZ-REEL7	NO	YES
26	U7	1	IC, LEVEL TRANSLATOR, DUAL, LOW VOLTAGE, 20MBPS, 1.5V TO 5.5V, Micro8, AEC-Q100	NLSX4373DMR2G		ON Semiconductor	NLSX4373DMR2G	NO	YES
27	U8	1	IC, SERIAL EEPROM, I2C, 64Kbit, 1.8V, 1 MHz, US8, Automotive Grade-1	N24C64UVTG		ON Semiconductor	N24C64UVTG	NO	YES
28	Y1	1	OSC, CRYSTAL CLOCK, SMD, CMOS, 1.7V TO 3.6V, 5mA, 27.000MHz, 2.5MM x 2.0MM	27MHz		MICREL	DSC1001DL5-027.0000T	NO	YES