

AR0234-CSP83_Demo3Head

P/N AR0234

Rev 1.0

RoHS

September 03, 2018

Item	Quantity	Part Reference	Value	Package	Description	Manufacturer	Manufacturer Part Number	Changes	Suitable Subs
1	1	C9	1uF	805	CAP, CERAMIC, 1uF, 25V, X7R, 10%, 0805	Murata	GCM21BR71E105KA56L		
2	17	C14 C15 C42 C43 C44 C48 C49 C51 C53 C54 C56 C58 C60 C62 C63 C64 C71	100nF	201	CAP, CERAMIC, 100nF, 10V, X5R, 20%, 0201	Panasonic	ECJZE1A104M		GRM033R61A104ME15D
3	20	C34 C35 C36 C37 C39 C40 C50 C52 C55 C57 C59 C61 C70 C162 C163 C164 C165 C166 C167 C168	10uF	3216-18	CAP, TANTALUM CHIP, STD, 10uF, 10V, 10%, 3216	AVX	TAJA106K010R		TAJA106K010RNJ
4	16	C102 C103 C118 C121 C124 C125 C142 C145 C154 C170 C171 C172 C173 C174 C178 C179	10uF	603	CAP, CERAMIC, 10uF, 10V, X5R, 10%, 0603	Murata	GRM188R61A106KAALD	Added: C178 C179	
5	26	C104 C105 C106 C107 C108 C109 C110 C119 C122 C126 C127 C128 C129 C130 C131 C132 C143 C150 C151 C152 C153 C156 C158 C160 C175 C176	100nF	201	CAP, CERAMIC, 100nF, 10V, X7S, 20%, 0201, -55/+125C	TDK	C0603X7S1A104M030		
6	1	C169	1uF	603	CAP, CERAMIC, 1uF, 16V, X7R, 10%, 0603, Automotive AEC-Q200	TDK Corporation	CGA3E1X7R1C105K080AC		
7	1	C177	10nF	402	CAP, CERAMIC, 10nF, 16V, X7R, 10%, 0402	TDK Corporation	C1005X7R1C103K	Added to BOM	C1005X7R1C103K050BA
8	1	D1	GRN	603	DIODE, LED, CHIP, GRN, CLEAR LENS, 2.0V, 20mA, SMD, 0603	Lite-On	LTST-C190KGKT		
9	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		
10	10	P3 P16 P18 P19 P23 P43 P49 P50 P51 P52	HDR3-1x3-P		CONN, HEADER, VERTICAL, 1x3, 3 PIN, 2MM PITCH, THRU-HOLE	3M	951103-8622-AR	Added: P51 P52	
11	6	P15 P41 P42 P44 P45 P48	HDR2-1x2-P		CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	3M	951102-8622-AR		
12	1	P24	HDR6-2x3-P		CONN, HEADER, VERTICAL, 2x3, 6 PIN, 2MM PITCH, THRU-HOLE	3M	951206-8622-AR		
13	1	P27	HDR4-2x2-P		CONN, HEADER, VERTICAL, 2x2, 4 PIN, 2MM PITCH, THRU-HOLE	3M	951204-8622-AR		
14	1	P47	HDR4-1x4-P		CONN, HEADER, VERTICAL, 1x4, 4 PIN, 2MM PITCH, THRU-HOLE	3M	951104-8622-AR		
15	4	RP1 RP2 RP3 RP4	22	0402 X 4	RESISTOR, CHIP ARRAY, ISOLATED, 4 RES, 8 TERMINALS, 22 OHM, 0.063W, 5%, 0402 ARRAY, AEC-Q200 compliant	Panasonic	EXB28V220JX		
16	1	R23	560	402	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 0.063W, 5%, 0402, AEC-Q200 compliant	Panasonic	ERJ2GEJ561X		
17	2	R25 R26	10K	603	RESISTOR, PRECISION THICK FILM CHIP, SMD, 10K, 0.1W, 1%, 0603	Panasonic	ERJ3EKF1002V		
18	3	R27 R28 R29	33	402	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 0.063W, 5%, 0402, AEC-Q200 compliant	Panasonic	ERJ2GEJ330X		
19	11	R32 R33 R45 R46 R47 R85 R86 R89 R92 R93 R96	10K	402	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402, AEC-Q200 compliant	Panasonic	ERJ2GEJ103X		
20	3	R34 R35 R48	0	402	RESISTOR, PRECISION THICK FILM CHIP, SMD, 0 Ohm, 0.1W, 1%, 0402, Automotive grade, AEC-Q200 compliant	Panasonic	ERJ2GE0R00X		
21	1	R95	0	603	RESISTOR, THICK FILM CHIP, SMD, 0 OHM JUMPER, 0.1W, 5%, 0603, AEC-Q200 compliant	Panasonic	ERJ3GEY0R00V		
22	1	R98	500K	277x264x192	RESISTOR, POTENTIOMETER, TOP ADJ, 500K, 0.5W, 10%, SMD, .277"L x .264"W x .192"H	Bourns	3361P-1-504GLF	Added to BOM	
23	1	R99	121K	402	RESISTOR, PRECISION THICK FILM CHIP, SMD, 121K, 0.1W, 1%, 0402	Panasonic	ERJ2RFK1213X	Added to BOM	
24	1	SW1	PB-SPST		SWITCH, PUSH BUTTON, TACTILE, MOM, 2 PIN, SPST-NO, 0.05A @ 24VDC, SMD	TE Connectivity	147873-2		
25	2	TP6 TP7	TSPT-5016		CONN, TERMINAL, TEST POINT COMPACT, .015 THICK, SMT	Keystone Electronics	5016		
26	1	U1	LT3020EMS8-ADJ	MSOP8	IC, VOLTAGE REGULATOR, POSITIVE, VLDO, ADJ, 100mA, 0.2 TO 9.5V OUTPUT, MSOP8	Linear Technology	LT3020EMS8#PBF		
27	2	U2 U3	SN74LVC1G17-Q1	SOT23-5	IC, BUFFER, SINGLE SCHMITT-TRIGGER, 32mA, 1.65V TO 5.5V, SOT23-5, Automotive part	Texas Instruments	SN74LVC1G17QDBVRQ1		
28	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		
29	1	U6	ADM6711	SC70-4	IC, SUPERVISOR, MICROPROCESSOR POWER SUPPLY, 2.93V, ACTIVE LOW RESET, SC70-4	Analog Devices	ADM6711SAKSZ-REEL7		
30	1	U8	24AA64-I/SN	SO8	IC, SERIAL EEPROM, I2C, 64Kbit, 1.8V, 400KHz, SO8	Microchip	24AA64-I/SN		
31	1	U9	AR0234-DEMO_CSP83	CSP83	IC, SENSOR, ACTIVE-PIXEL DIGITAL IMAGE, CMOS, AR0234, C25J DEMO HDBD, CSP83	ON Semiconductor	AR0234_CSP83		
32	2	U10 U11	NCP163-2.7V	WLCSP4	IC, VOLTAGE REGULATOR, LDO, +2.7V, 250mA, 2.2V TO 5.5V INPUT, Ultra-Low Noise and High PSRR, WLCSP4	ON Semiconductor	NCP163AFCS270T2G		
33	1	U12	NCP705MTADJTCG	WDFN6	IC, VOLTAGE REGULATOR, LDO, HIGH PSRR, ULTRA LOW NOISE, 500mA, 2.5V TO 5.5V INPUT, ADJUSTABLE OUTPUT, WDFN6	ON Semiconductor	NCP705MTADJTCG	Added to BOM	
34	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		