







1 2 3 4 4 5 6 6 7 7 8 9 10 11 11 12 13 14 15 16 17 7	22  1 4 2 1 1 2 3 3 1 1 2 2 1 1 1 1 1 1 1 1 1 1	C1. C2. C3. C4. C5. C6. C7. C8. C9. C10. C11, C13. C14. C15, C16. C17, C18. C19. C20. C21, C23, C26 C12 C22, C24, C25, C27 CON1, CON2 CON3 CON4 CON5, CON6 D1, D3, D4 D2 J1 JX1, JX2 L1 P1 P2 P3	Ceramic Chip Capacitor - Standard  Capacitor (Semiconductor SIM Model) Capacitor (Semiconductor SIM Model) Header, 3-Pin, Dual row Header, 6-Pin, Dual row Header, 4-Pin, Dual row Header, 4-Pin, Dual row Schottky Rectifier Variable voltage reference Header, 2-Pin 100p connector, BERGSTAK SRNS020-2R2Y Header, 5-Pin	0805  20SVP150M_FP 0402 HDR2X8 CEN HDR2X6 CEN HDR2X4 HDR2X4 HDR2X30 POWERDH123 SOT23 N HDR1X2 FCI_BERSTMK_100P SRN5020-2R2Y_FP	C0805  20SVP150M  Cap Serni Header 332 Header 632A Header 632A Header 432 - ADC Header 3032 18TQ045 TL431AIDBZT Header 2 BERGSTAK 100P 2.20H	C0805  20SVP150M  Cap Semi Header 3V2 Header 6V2A Header 4V2 BTQ045 TL431AIDBZT Header 2 BERGSTAK 100P
3 4 5 6 6 7 7 8 8 9 9 10 11 11 12 13 13 14 15 16	4 2 1 1 1 1 2 2 3 3 1 1 1 1 1 2 2 1 1 1 1	C12 C22, C24, C25, C27 CON1, CON2 CON3 CON4 CON5, CON6 D1, D3, D4 D2 J1 JX1, JX2 L1 P1 P2	Capacitor (Semiconductor SIM Model) Header, 3-Pin, Dual row Header, 6-Pin, Dual row Header, 4-Pin, Dual row Header, 4-Pin, Dual row Schottky Rectifier Variable voltage reference Header, 2-Pin 100p connector, BERGSTAK SRN5020-2R2Y Header, 5-Pin	0402 HDR2X3 HDR2X6_CEN HDR2X4 HDR2X30 POWERDI-123 SOT-23_N HDR1X2 FCI_BERGSTAK_100P SRN5020-2R2Y_FP	Cap Semi Header 3/2 Header 6/2/A Header 4/2/ - ADC Header 3/0/2 18/T00/45 TL-31/AIDBZT Header 2 BERGSTAK 100P	Cap Semi Header 3X2 Header 6X2A Header 6X2A Header 4X2 Header 30X2 18T0Q45 TL431AIDBZT Header 2 BERGSTAK 100P
3 4 5 6 6 7 7 8 9 9 10 11 12 13 14 15 16	4 2 1 1 1 1 2 2 3 3 1 1 1 1 1 2 2 1 1 1 1	C22, C24, C25, C27 CON1, CON2 CON3 CON4 CON5, CON6 D1, D3, D4 D2 J1 JX1, JX2 L1 P1 P2	Capacitor (Semiconductor SIM Model) Header, 3-Pin, Dual row Header, 6-Pin, Dual row Header, 4-Pin, Dual row Header, 4-Pin, Dual row Schottky Rectifier Variable voltage reference Header, 2-Pin 100p connector, BERGSTAK SRN5020-2R2Y Header, 5-Pin	0402 HDR2X3 HDR2X6_CEN HDR2X4 HDR2X30 POWERDI-123 SOT-23_N HDR1X2 FCI_BERGSTAK_100P SRN5020-2R2Y_FP	Cap Semi Header 3/2 Header 6/2/A Header 4/2/ - ADC Header 3/0/2 18/T00/45 TL-31/AIDBZT Header 2 BERGSTAK 100P	Cap Semi Header 3X2 Header 6X2A Header 6X2A Header 4X2 Header 30X2 18T0Q45 TL431AIDBZT Header 2 BERGSTAK 100P
4 5 6 7 8 9 10 11 12 12 13 14 15 16	2 1 1 2 3 3 1 1 1 2 2 1 1 1 1 1 1	CON1, CON2 CON3 CON4 CON5, CON6 D1, D3, D4 D2 J1 JX1, JX2 L1 P1 P2	Header, 3-Pin, Dual row Header, 6-Pin, Dual row Header, 4-Pin, Dual row Header, 30-Pin, Dual row Schottky Rectifier Variable voltage reference Header, 2-Pin 100p connector, BERGSTAK SRNS020-2R2Y Header, 5-Pin	HDR2X3 HDR2X6_CEN HDR2X4 HDR2X30 POWERDI-123 SOT-23_N HDR1X2 FCI_BERGSTAK_100P SRN5020-2R2Y_FP	Header 3X2 Header 6X2A Header 4X2 - ADC Header 30X2 18T0045 TL431AIDBZT Header 2 BERGSTAK 100P	Header 3X2 Header 6X2A Header 4X2 Header 30X2 18TQ045 TL431AIDBZT Header 2 BERGSTAK 100P
5 6 7 7 8 9 9 10 11 12 13 14 15 16	1 1 2 3 3 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1	CON3 CON4 CON5, CON6 D1, D3, D4 D2 J1 JX1, JX2 L1 P1 P2	Header, 6-Pin, Dual row Header, 4-Pin, Dual row Header, 3-Pin, Dual row Schottky Rectifier Variable voltage reference Header, 2-Pin 100p connector, BERGSTAK SRN5020-2R2Y Header, 5-Pin	HDR2X6_CEN HDR2X4 HDR2X30 POWERDI-123 SOT-23_N HDR1X2 FCI_BERGSTAK_100P SRN5020-2R2Y_FP	Header 6X2A Header 4X2 - ADC Header 30X2 18TQ045 TL431AIDB2T Header 2 BERGSTAK 100P	Header 6X2A Header 4X2 Header 30X2 18TQ045 TL431AIDBZT Header 2 BERGSTAK 100P
6 6 7 8 8 9 10 111 12 12 13 14 15 16	1 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CON4 CON5, CON6 D1, D3, D4 D2 J1 JX1, JX2 L1 P1 P2	Header, 4-Pin, Dual row Header, 30-Pin, Dual row Schottky Rectifier Variable voltage reference Header, 2-Pin 100p connector, BERGSTAK SRN5020-2R2Y Header, 5-Pin	HDR2X4 HDR2X30 POWERDI-123 SOT-23_N HDR1X2 FCI_BERGSTAK_100P SRN5020-2R2Y_FP	Header 4X2 - ADC Header 30X2 18T0045 TL431AIDBZT Header 2 BERGSTAK 100P	Header 4X2 Header 30X2 18TQ045 TL431AIDBZT Header 2 BERGSTAK 100P
7 8 9 10 11 11 12 13 14 15	2 3 3 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1	CON5, CON6 D1, D3, D4 D2 J1 JX1, JX2 L1 P1 P2	Header, 30-Pin, Dual row Schottky Rectifier Variable voltage reference Header, 2-Pin 100p connector, BERGSTAK SRN5020-2R2Y Header, 5-Pin	HDR2X30 POWERDI-123 SOT-23_N HDR1X2 FCI_BERGSTAK_100P SRN5020-2R2Y_FP	Header 30X2 18TQ045 TL431AIDBZT Header 2 BERGSTAK 100P	Header 30X2 18TQ045 TL431AIDBZT Header 2 BERGSTAK 100P
8 9 9 10 11 11 12 13 14 15 16	3 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D1, D3, D4 D2 J1 JX1, JX2 L1 P1 P2	Schottky Rectifier Variable voltager Header, 2-Pin 100p connector, BERGSTAK SRN5020-2R2Y Header, 5-Pin	POWERDI-123 SOT-23_N HDR1X2 FCI_BERGSTAK_100P SRN5020-2R2Y_FP	18TQ045 TL431AIDBZT Header 2 BERGSTAK 100P	18TQ045 TL431AIDBZT Header 2 BERGSTAK 100P
9 10 11 11 12 13 14 15	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D2 J1 JX1, JX2 L1 P1 P2	Variable voltage reference Header, 2-Pin 10bp connector, BERGSTAK SRNS020-2R2Y Header, 5-Pin	SOT-23_N HDR1X2 FCI_BERGSTAK_100P SRN5020-2R2Y_FP	TL431AIDBZT Header 2 BERGSTAK 100P	TL431AIDBZT Header 2 BERGSTAK 100P
10 11 12 13 14 15 16	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L1 P1 P2	Header, 2-Pin 100p connector, BERGSTAK SRN5020-2R2Y Header, 5-Pin	HDR1X2 FCI_BERGSTAK_100P SRN5020-2R2Y_FP	Header 2 BERGSTAK 100P	Header 2 BERGSTAK 100P
11 12 13 14 15 16	2 1 1 1 1 1 1	L1 P1 P2	100p connector, BERGSTAK SRN5020-2R2Y Header, 5-Pin	FCI_BERGSTAK_100P SRN5020-2R2Y_FP	BERGSTAK 100P	BERGSTAK 100P
12 13 14 15 16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L1 P1 P2	SRN5020-2R2Y Header, 5-Pin	SRN5020-2R2Y_FP		
13 14 15 16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P1 P2 P3	Header, 5-Pin			SRN5020-2R2Y
14 15 16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P2 P3			Header 5	Header 5
15 16	1 1	P3		HDR1X5 HDR1X3	Header 3	Header 3
16	1		Header, 3-Pin	Power Jack	dc jack	dc jack
	· · · · · · · · · · · · · · · · · · ·	104	Header, 4-Pin	Power Jack HDR1X4	dc_jack Audio Header	dc_jack Header 4
17		04 02 02 05 06 07				
		Q1, Q2, Q3, Q5, Q6, Q7, Q9, Q10, Q11	N-Channel MOSFET	SOT-23B	BSS138LT1G	BSS138LT1G
18	2	Q4, Q8		HRP7_N	BD6222HFP	BD6222HFP
19	1	R1	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W		1K5	ERA6Y
20	1	R2	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	зк	ERA6Y
21	6	R3, R5, R10, R11, R12, R13	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	5 2-0402	1K	ERA6Y
22	1	R4	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	5 2-0402	45K3 0.1%	ERA6Y
23	1	R6	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size. 0.1 W	5 2-0402	100K	ERA6Y
24	1	R7	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	5 2-0402	3K74	ERA6Y
25	1	R8	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	5 2-0402	10K 0.1%	ERA6Y
26	1	R9	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	5 ERA-0805	348R1%	ERA6Y
27	1	R14	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	5 2-0402	3K92	ERA6Y
28	2	R15, R16	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	3K92 1%	ERA6Y
29	1	R17	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	220	ERA6Y
30	1	R18	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W	2-0402	120	ERA6Y
31	1	R19	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W		680R 1%	ERA6Y
32	1	R20	Rectangular Thick Film Chip Resistor, 10 Ohm to 1M Ohm Range, 0.1% and 0.5% Tolerance, 0805 Size, 0.1 W		430R 1%	ERA6Y
33	8	R21, R23, R25, R27, R28, R30, R32, R34	Thick Film Chip Resistor, 1 Ohm to 2.2M Ohm Range, 5% Tolerance, 0402 Size, 0.063 W	2-0402	100R	ERJ2GE
34	4	R22, R26, R29, R33	Thick Film Chip Resistor, 1 Ohm to 2.2M Ohm Range, 5% Tolerance, 0402 Size, 0.063 W	2-0402	85R	ERJ2GE
35	2	R24, R31	Thick Film Chip Resistor, 1 Ohm to 2.2M Ohm Range, 5% Tolerance, 0402 Size, 0.063 W	2-0402	145R	ERJ2GE
36	1	REG1		PTH08080W_FP	PTH08080WAH	PTH08080WAH
37	1	REG2		SOT23-5	LMR10510XMF	LMR10510XMF
38	2	RGB1, RGB2		RGB LED	RGB LED	LTRB R8SF
39	1	SW1		1101M2S3CQE2_FP	1101M2S3CQE2	1101M2S3CQE2
40	1	U1	IC SMD AMP+COMPAR Combo SOIC-8	SOT23-5	TLV2702	LMV331QDBVRQ1