

Tsuen Shing Enterprises Ltd.
Bill Of Materials

Model No.	Description	Qty	unit
4 bit MCU	W742C811-3452 package:CHIP FORM(diplomatic relations) operation voltage:2.4--6.0v	1.00	pcs
adjustable Capacitor	STC3M20R, 20pF, package:SMD (4.5*3.2mm)	1.00	pcs
adjustable intermediate frequency	Q(min):70 (f):0.07mm :503 455khz	1.00	pcs
Amplifier IC	LM324DR package:SOP14 function:four-use single-power amplifier, operation voltage:3~32V	3.00	pcs
Audio IC	NJM386M Package:SOP8 unction:amplifier, operation:4~12V	1.00	pcs
Audio IC	SI13361D01-S0B0 package:16-SOP-225A function:FM IF operation voltage:2V	1.00	pcs
chinaware filter	LTM455EW central frequency:455KHz±1.5khz	1.00	pcs
Chip Capacitor	1nF 25V, +/-10%, package:0603	1.00	pcs
Chip Capacitor	100pF 50V, +/-5%, package:0603	1.00	pcs
Chip Capacitor	1nF 50V, +/-5%, package:0603	19.00	pcs
Chip Capacitor	10nF 50V, +/-5%, package:0603	21.00	pcs
Chip Capacitor	0.1uF 50V, +/-20%, package:0603	21.00	pcs
Chip Capacitor	120pF 50V, +/-20%, package:0603	1.00	pcs
Chip Capacitor	1.5nF 25V, +/-20%, package:0603	2.00	pcs
Chip Capacitor	15nF 50V, +/-20%, package:0603	1.00	pcs
Chip Capacitor	20nF 25V, +/-20%, package:0603	1.00	pcs
Chip Capacitor	22pF 25V, +/-20%, package:0603	1.00	pcs
Chip Capacitor	220pF 25V, +/-10%, package:0603	1.00	pcs
Chip Capacitor	2.2nF 50V, +/-20%, package:0603	2.00	pcs
Chip Capacitor	22nF 25V, +/-10%, package:0603	2.00	pcs
Chip Capacitor	33nF 50V, +/-20%, package:0603	4.00	pcs
Chip Capacitor	47pF 50V, +/-20%, package:0603	1.00	pcs
Chip Capacitor	470pF 50V, +/-10%, package:0603	5.00	pcs
Chip Capacitor	4.7nF 50V, +/-20%, package:0603	2.00	pcs
Chip Capacitor	47nF 16V, +/-10%, package:0603	17.00	pcs
Chip Capacitor	0.47uF 16V, -20%---+80%, package:0603	2.00	pcs
Chip Capacitor	68nF 16V, +/-20%, package:0603	1.00	pcs
Chip Capacitor	82pF 50V, +/-5%, package:0603	1.00	pcs
Chip Capacitor	1uF 16V, -20%---+80%, package:0805	8.00	pcs
Chip Capacitor	2.2uF 10V, -20%---+80%, package:0805	1.00	pcs
Chip Capacitor	10nF 50V ±20% package:0603	3.00	pcs
Chip Capacitor	0.1uF 25V±20% package:0603	5.00	pcs
Chip Capacitor	22PF 50V ±5% package:0603	1.00	pcs
Chip Capacitor	27PF 25V ±5% package:0603	1.00	pcs
Chip Capacitor	1uF 10V -20%~+80% package:0805	1.00	pcs
Chip inductor	8.2NH ±5% package:0603	2.00	pcs
Chip inductor	100NH ±5% package:0603	1.00	pcs
Chip inductor	0.22uH ±10% package:0603	1.00	pcs
Chip inductor	0.82uH ±10% package:0603	1.00	pcs
Chip resistor	0Ω ±5% package:0603	1.00	pcs
Chip resistor	0Ω ±5% package:0805	1.00	pcs
Chip resistor	10Ω ±5% package:0603	2.00	pcs
Chip resistor	100Ω ±5% package:0603	3.00	pcs

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Chip resistor	1K Ω $\pm 5\%$ package:0603	10.00	pcs
Chip resistor	10K Ω $\pm 5\%$ package:0603	18.00	pcs
Chip resistor	100K Ω $\pm 1\%$ package:0603	1.00	pcs
Chip resistor	100K Ω $\pm 5\%$ package:0603	11.00	pcs
Chip resistor	120K Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	150 Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	1.5K Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	15K Ω $\pm 5\%$ package:0603	5.00	pcs
Chip resistor	180K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	20K Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	220 Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	2.2K Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	22K Ω $\pm 5\%$ package:0603	6.00	pcs
Chip resistor	220K Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	270 Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	2.7K Ω $\pm 5\%$ package:0603	6.00	pcs
Chip resistor	33 Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	3.3K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	33K Ω $\pm 5\%$ package:0603	8.00	pcs
Chip resistor	3.9K Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	39K Ω $\pm 5\%$ package:0603	4.00	pcs
Chip resistor	390K Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	47 Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	470 Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	4.7K Ω $\pm 5\%$ package:0603	12.00	pcs
Chip resistor	47K Ω $\pm 5\%$ package:0603	7.00	pcs
Chip resistor	470K Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	4.7 Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	56 Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	560 Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	5.6K Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	56K Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	68 Ω $\pm 5\%$ package:0603	4.00	pcs
Chip resistor	6.8K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	68K Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	75K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	10K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	0 Ω $\pm 5\%$ package:0603	4.00	pcs
Chip resistor	1K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	10K Ω $\pm 1\%$ package:0603	3.00	pcs
Chip resistor	10K Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	100K Ω $\pm 1\%$ package:0603	2.00	pcs
Chip resistor	100K Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	1M Ω $\pm 5\%$ package:0603	1.00	pcs

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Model No.	Description	Qty	unit
Chip resistor	120K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	150 Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	20K Ω $\pm 1\%$ package:0603	5.00	pcs
Chip resistor	2.2K Ω $\pm 5\%$ package:0603	3.00	pcs
Chip resistor	270K Ω $\pm 1\%$ package:0603	1.00	pcs
Chip resistor	3.3K Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	33K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	390 Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	39K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	4.7K Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	47K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	4.7M Ω $\pm 5\%$ package:0603	2.00	pcs
Chip resistor	680 Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	6.8K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	75K Ω $\pm 5\%$ package:0603	1.00	pcs
Chip resistor	91K Ω $\pm 1\%$ package:0603	1.00	pcs
Earphone socket	ST-103-06 (or ST-115-N), stereo socket, inner dia. $\Phi 2.6\text{mm}$	1.00	pcs
Ele. Capacitor	10uF 10V, -20%~+80%, dia. $\Phi 5\text{mm}$, height:7mm (max.)	4.00	pcs
Ele. Capacitor	100uF 10V, -20%~+80%, dia. $\Phi 5\text{mm}$, height:7mm (max.)	2.00	pcs
Ele. Capacitor	47uF 10V, -20%~+80%, dia. $\Phi 5\text{mm}$, height:7mm (max.)	5.00	pcs
Glue resistor	100 Ω $\pm 5\%$ package:0603	1.00	pcs
High frequency chip capacitor	10pF 50V, $\pm 5\%$, feature:NPO, package:0603, Q value ≥ 10000	2.00	pcs
High frequency chip capacitor	12pF 50V, $\pm 5\%$, feature:NPO, package:0603, Q value ≥ 10000	1.00	pcs
High frequency chip capacitor	15pF 50V, $\pm 5\%$, feature:NPO, package:0603, Q value ≥ 10000	2.00	pcs
High frequency chip capacitor	18pF 50V, $\pm 5\%$, feature:NPO, package:0603, Q value ≥ 10000	2.00	pcs
High frequency chip capacitor	1pF 50V, 0.25pf, feature:NPO, package:0603, Q value ≥ 100	2.00	pcs
High frequency chip capacitor	2pF 50V, 0.25pf, feature:NPO, package:0603, Q value ≥ 100	1.00	pcs
High frequency chip capacitor	3pF 50V, 0.25pf, feature:NPO, package:0603, Q value ≥ 100	2.00	pcs
High frequency chip capacitor	47pF 50V, $\pm 5\%$, feature:NPO, package:0603, Q value ≥ 10000	5.00	pcs
High frequency chip capacitor	56pF 50V, $\pm 5\%$, feature:NPO, package:0603, Q value ≥ 10000	1.00	pcs
High frequency chip capacitor	5pF 50V, 0.25pf, feature:NPO, package:0603, Q value ≥ 100	6.00	pcs
High frequency chip capacitor	6pF 50V, 0.25pf, feature:NPO, package:0603, Q value ≥ 100	1.00	pcs
High frequency chip capacitor	7pF 50V, 0.25pf, feature:NPO, package:0603, Q value ≥ 100	3.00	pcs
High frequency chip capacitor	8pF 50V, 0.25pf, feature:NPO, package:0603, Q value ≥ 100	2.00	pcs
High frequency chip capacitor	30PF 50V $\pm 5\%$ NPO package:0603 Q: ≥ 10000	0.50	pcs
High frequency chip capacitor	33PF 50V $\pm 5\%$ NPO package:0603 Q: ≥ 10000	0.50	pcs
hollow loop	5T (ϕ):0.35mm 1.2mm	2.00	pcs
hollow loop	4T (ϕ):0.35mm 1.2mm	4.00	pcs
hollow loop	4T (ϕ):0.35mm 1.1mm	4.00	pcs
intermediate frequency	intermediate frequency3361D01and10K Ω =R145 combination	1.00	pcs
LCD	22.8*17.4mm operation voltage:3.5V CSL-50045 AW	1.00	pcs
LCD board	51mm *50.5mm *1.0mm material:FR-4	1.00	pcs
line	24PIN P=1.27mm L=20mm 2*2mm	1.00	pcs

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Model No.	Description	Qty	unit
Logic IC	LM393DR package:S08 funtion:comparison implement operition voltage:2.7--5v	1.00	pcs
main board PCB	length:91mm width:53mm thickness:1.0mm material:FR-4	1.00	pcs
memory IC	HT93LC46B package:8 SOP-B	1.00	pcs
Mic.	Φ6.0*5.2mm, sensitivity:-62dB±2dB	1.00	pcs
Phase lock loop IC	SI18825B01-ROB0, package:16-TSSOP-0044, function:1.3GHz Dual PLL	1.00	pcs
Quartz crystal	central frequency:12.80MHz, package:UM-1, load capacitor:19.2pF, ±3PPM	1.00	pcs
Quartz crystal	central frequency:21.145MHz, package:HC-49/S, load capacitor:16pF, ±20p	1.00	pcs
Quartz crystal	central frequency:3.579545MHz package:HC-49/S load capacitor:16pf	1.00	pcs
Quartz crystal	central frequency:32.768KHz package: 2×6 load capacitor:12.5pf	1.00	pcs
Quartz filter	central frequency:21.600MHz package:UM-5 frequency error:±7.5khz	1.00	pcs
SMD adjustable resistor	10K Ω package:EVN5E(3.6*3.1mm), impedance feature:B	2.00	pcs
SMD shine diode	KPA-3010SRC-PRV package:3.0*2.0mm (SMD) red	2.00	pcs
sound wave filter	SF465 central frequency:465MHz package:F-11 transmission bands:+/-3MHz	1.00	pcs
Switch diode	SDP410D, package:SOD-323, Vr:30V Ts:-55℃~+125℃	1.00	pcs
Switch diode	BAV99, package:SOD-23, Trr:4NS Pd:250MW Vr:75V Ts:-65℃~+150℃	2.00	pcs
Switch diode	LL4148, package:DL-35, Trr:4NS Pd:0.5W Vr:75V Ts:-65~+175℃	2.00	pcs
Switch diode	1SS356 TW11 package:USM Trr:4NS Vr:35V Ts:-55~+125℃ Vf(m	1.00	pcs
Switch diode	LL4148 package:DL-35 Trr:4NS Pd:0.5W Vr:75V Ts:-65~+175℃	1.00	pcs
Transistor	2SC3356-R24 package:SOT-23 polarity:NPN, hFE:80~160 Vceo:12V	1.00	pcs
Transistor	2SC4901YK-TR package:SC-70 polarity:NPN, hFE:50~400 Vceo:9V	2.00	pcs
Transistor	2SC5343SFG package:SOT-23 polarity:NPN, hFE:200~400 Vceo:50V	10.00	pcs
Transistor	2SA812-M6-T package:SOT-23 polarity:PNP, hFE:200~400 Vceo:-50V	1.00	pcs
Transistor	T9018H package:SOT-23 polarity:NPN, hFE:108~146 Vceo:15V	1.00	pcs
Transistor	BFR93A package:SOT-23 polarity:NPN	5.00	pcs
Transistor	MMBT3906LT1 package:SOT-23 polarity:NPN, hFE:100~400 Vceo:5V	3.00	pcs
Transistor	BFG135 package:SOT-223 polarity:NPN, hFE:80~130 Vceo:15V	1.00	pcs
Transistor	2SA812-M6-T package:SOT-23 polarity:PNP, hFE:200~400 Vceo:-50V	1.00	pcs
Transistor	MMBT3906LT1 package:SOT-23 PNP	1.00	pcs
Variable-capacitor diode	HVU350B, package:URP, Vr:15V Ts:-55℃~+125℃ Ir(或If):10NA	1.00	pcs
Variable-capacitor diode	BB721 package:SOD-123 Vr:32V Ts:-55~+125℃	1.00	pcs
Voltage regulator IC	XC62FP3602PR Package:SOT-89 output voltage:3.6V outputcurrent:500MA	1.00	pcs
WT-418A SMT C22	WT-418A SMT main board	1.00	pcs
WT-418L SMT LCD board	WT-418L SMT LCD board	1.00	pcs