

Bill of Materials

Sonic Applicator with switch, microprocessor-based

Source Data From:	5105_5106-Shirley-NEC.PrjPCB	clarisonic®
Project:	5105_5106-Shirley-NEC.PrjPCB	
Variant:	None	

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Quantity	Description	Designator	Value	Tolerance	Ratings	Package / Case	Manufacturer 1	Manufacturer Part Number	PBL Part Number	Comment
4	0.1µF non-polarized capacitor	C1, C3a, C3b, C3c	0.1µF	10%	50V; X7R	0603	Samsung	CL10B104KBN	3100-461	CAPC_104
1	0.47µF non-polarized capacitor	C2	0.47µF	10%	50V; X7R	0603	Samsung	CL10B474KBN	3100-464	CAPC_474
1	Solid Tantalum Chip Capacitor	C4	33µF	10%	6.3V	Case A	Kemet	T491A336K006AT	3100-463	CAPT_336
1	Solid Tantalum Chip Capacitor	C5	22µF	10%	6.3V	Case A	Kemet	T491A226K006AT	3100-465	CAPT_226
2	Diode, Schottky	D1, D2				SOD-123	DC Components Co	SS0520	3100-411	SS0520
1	Thermal cutoff	F1			130°C; 2.0A; 250Vac	diam. 2.1 x 6.5mm	Aupo	P4-F	3100-436	Thermal Cutoff
1	Custom charger coil for Shirley series	L2	32AWG; 32 turns			per dwg			5150	CHG_COIL_Shirley
1	Chip inductor	L3	22µH	10%	110 mAdc	1210 (3.2x2.5mm)	TDK	SMD-322522-220K	3100-469	22µH
1	Gull-wing SMD LED, High-intensity blue	LED1			350 mcd	4.6mm Gull-Wing	Ligitek	LDBK9033/ TR1	3100-484	LED_Blue_GullWing
1	U-core ferrite	MFC-L2				Ferrite	Samwha	UU1620S-SM-70S	3100-060	mech
1	PCB switch assembly	MPCB-S1							5159	mech
2	Wire, 28AWG, insulated	MW1-S1, MW2-S1	45mm piece			28AWG insulated	Any		3100-071	mech
1	Dual-Channel Power MOSFET	Q1			20V; 9.4A	SOIC-8	Alpha Omega	AO4806	3100-488	AO4806
1	npn transistor	Q2			40V; 200mA	SOT-23	Any	MMBT3904	3100-406	NPN1
5	Chip Resistor	R1, R2, R3, R4, R6	1k	5%	1/ 10 W	0603	Royal Ohm	0603WAJ0102	3100-414	RES_1.00k
3	Chip Resistor	R5, R7, R8	10k	5%	1/ 10 W	0603	Royal Ohm	0603WAJ0103	3100-415	RES_10.00k
1	Chip Resistor	R9	220R	5%	1/ 10 W	0603	Royal Ohm	0603WAJ0221	3100-472	RES_220R
1	Chip Resistor	R10	1M	5%	1/ 10 W	0603	Royal Ohm	0603WAJ0105	3100-473	RES_1.00M
1	Switch for Sonic Applicator switch subassembly	S1			250gf	per dwg	Wealth Metal	TD-28MU	5158	SW_Shirley_ForPCB A
1	NEC 8-Bit Single-Chip Microcontroller	U1				SSOP-30	NEC	µPD78F0500MC-5A4-A	3100-476	µPD78F0500MC
1	VFM Step-Up DC/ DC Converter	U2			5V	SOT-23-5	Richtek	RT9261B-50PB	3100-477	
1	Resonator, Ceramic	XT1			4.9152 MHz Ceramic	2.5mm pitch	Chequer	ZTTCR4.91MG	3100-478	4.9152MHz
33										

Approved	Notes	