

SHENZHEN WELLDY TECHNOLOGY CO.,LTD

Product Specifications

Product Model		C180		Date created	2020.11.10	Doc. Version	V1.0
Product function and configuration							
Function		BT,TWS,TF,AUX,MIC					
BT Chip		JL AC6925E			BT Version		V5.0
Power amplifier chip		FT2830CP			Decoding Format		MP3
Battery		3.7V 800mAh			IP Water		IPX7
Speaker driver		φ52mm 4Ω/5W			Product Dimensions		10cm*10cm*4.7cm
Operation Instructions:							
1	POWER	Short Press	Mode switch BT, TF				
		Long Press	1, Long press 2 seconds to turn on the speaker 2, Long press 2 seconds to turn off the speaker 3, If the speaker crashed, hold it for 8 seconds to automatically reset the speaker and turn it off .				
		Double Press	1,Bluetooth connection status : double press to disconnect the current connection when ; 2,Bluetooth dis-connection status:double press to connect to the last disconnected device				
3	V-/Prev	Short Press	Volume Down (30 levels in Android, 16 levels in iOS)				
		Long Press	Previous song				
4	Play/Pause	Short Press	1、 Music playback status: play, pause function 2、 When there is an incoming call: short press to answer the call 3、 When you're receiving the call: short press to hang up the phone call				
		Long Press	1、 Press 2 seconds to enter TWS connection, once connected, long press to disconnect TWS connection 2、 When there is an incoming call: short press to refuse the call				
		Double Press	1、 When it's connected via Bluetooth to your phone: double press to call back the last call				
5	V+/Next	Short Press	Volume Up (30 levels in Android, 16 levels in iOS)				
		Long Press	Next song				
Indicator Light decription							
BT mode		1,Bluetooth is not connected: The white light flashes quickly 2,Bluetooth is connected: The white light keeps on 3,Music playback: The white light flashes slowly 4,Pause:The white light keeps on					
AUX mode		1,Music playback:The white light flashes slowly 2,Pause:The white light keeps on					
Charging		1,Charging: The red light keeps on 2,Fully charged: the red light is off					
Electrical parameters:							
Function		NO	Project	Parameter		Unit	Test Equipment
AUX IN	1	Total harmonic distortion PO=0.5W (THD+N)		0.43%		%	AP(AST-2)
	2	input resistance		≥10KΩ		Ω	
	3	Input sensitivity (THD=10%)		800mV		mV	
	4	SNR (Po=MAX)		77		dB	
	5	Frequency response		30Hz-20KHz		Hz	
	6	THD = 1% Output Power		3.4		W	
	7	THD =10%Total harmonic distortion output power		3.7		W	
	8	Degree of separation		/		dB	
BT@Apple iPad	1	Version		5.0+EDR		VER	BT Test Fixture and AP
	2	Protocol specification(A2DP、 HFP、 HSP)		3		SET	
	3	BT transmit power		2dBm			
	4	BT receiving sensitivity		-89dBm			
	5	Total harmonic distortion PO=0.5W (THD+N)		0.35%		%	
	6	Input sensitivity (THD=10%)		800mV		mV	
	7	SNR (Po=MAX)		91dB		dB	
	8	Frequency response		70Hz-20KHz		Hz	
	9	THD = 1% Output Power		3.4		W	
	10	THD =10%Total harmonic distortion output power		Limiting3.4W/1%THD		W	
	11	Degree of separation		/		dB	
	12	Working frequency		2.402~2.480GHz		2.4GHz	
Others	1	Low battery warning voltage		3.4		V	Voltmeter, Ammeter
	2	Automatic shutdown voltage		3.4		V	
	3	Automatic shutdown time wihout playing		10		min	
	4	Shutdown power consumption current		≤ 50		uA	
	5	charging current		800		mA	
	6	charging time		2~2.5		H	
	7	Playing time @50% volume		23		H	
	8	Playing time @100% volume		4		H	
	9	BT wireless transmission distance		10		m	
	10	TWS distance		10		m	
	11	Working temperature		-10°~55°		°C	
	12	ESD discharging (touch)		≥4		KV	
Important materials	1	Speaker driver	Size	52		mm	Voltmeter, Audio signal generator
	2		Power	4Ω/5W		W/Ω	
	3		F0	140		Hz	
	4		Frequency response	140-20KHZ		Hz	
	5	lithium ion battery	Model/Size	523450AR		mm	Voltmeter, Ammeter, Volume divider, Battery internal resistance tester
	6		Voltage/Capacity	3.7V/800mah		V/mAh	
	7		Internal resistance	<140mR		mΩ	
	8		Factory voltage	3.75-3.95		V	
	9		Static self-consumption	≤10uA		uA	
	10	PCBA	environmentally-friendly, FR-4,double-sided, 1.0mm thick,copper thickness 1 ounce,Lead-free spray tin, through hole cover oil,Blue oil coated and white printed. Size: 71.8mm*61.4mm*1.0mm				
	11	microphone	Sensitivity-36 — -40db sound pressure110db SRN 60db				

Product frequency response curve:

