

SHENZHEN WELLDY TECHNOLOGY CO.,LTD

Product Specifications

Product Model		Q1		Date created	2020.10.18	Doc. Version	V1.0	
Product function and configuration								
Function		BT, TWS, TF, MIC						
BT Chip		JL AC6928B			BT Version	V5.0		
Power amplifier chip		CS5230E			Decoding Format	MP3		
Battery		3.7V/800mAh			IP Water	IPX4		
Speaker driver		φ43mm 4Ω/3W			Product Dimensions	8.6cm*8.6cm*4.5cm		
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					
2	V-/Prev	Short Press	Volume Down (30 levels in Android, 16 levels in iOS)					
		Long Press	Previous song					
3	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					
4	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						
TF 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 Parameter								
Function		NO	Project		Standard		Unit	Equipment
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)		0.64		%		
	6	Input sensitivity (THD=10%)		700mV		mV		
	7	SNR (Po=MAX)		89dB		dB		
	8	Frequency response		85Hz-20KHz		Hz		
	9	THD = 1% Output Power		3.3		W		
	10	THD =10%Total harmonic distortion output power		3.5		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 without playing		10		min		
	4	Shutdown power consumption current		≤ 50		uA		
	5	charging current		600mA		mA		
	6	charging time		2H~2.5H		H		
	7	Playing time @50% volume		21		H		
	8	Playing time @100% volume		4		H		
	9	BT wireless transmission distance		10		m		
	10	TWS distance		10		m		
	11	Working temperature		-5°~40°		°C		
	12	ESD discharging (touch)		≥ 4		KV		
Important materials	1	Speaker driver	Size	43		mm		Voltmeter, Audio signal generator
	2		Power	4R 3W		W/Ω		
	3		F0	160		Hz		
	4		Frequency response	160-20KHZ		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: 49mm*66mm*1.0mm					
	11	microphone	Sensitivity-36 ~ -40db sound pressure 110db SRN 60db					

