

SHENZHEN WELLDY TECHNOLOGY CO.,LTD

Product Specifications

Product Model		Q1		Date created		2020.11.2		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							

