

SHENZHEN WELLDY TECHNOLOGY CO.,LTD

Product Specifications

Product Model		E200		Date created	2020.10.27	Doc. Version	V1.0
Product function and configuration							
Function		BT,AUX,TWS,TF,MIC					
BT Chip		Action ATS2819			BT Version	V5.0	
Power amplifier chip		AD52117			Decoding Format	MP3 WAV APE FLAC	
Battery		7.4V/2200mAh			IP Water	IPX7	
Speaker Driver		φ 52mm 4Ω10W*2			Product Dimension	76mm*80mm*189mm	
Operation Instructions:							
1	POWER	Short press	1,Short press to activate siri function (IOS), support Huawei smart voice assistant 2,After activating the siri function, short press to close				
		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 5 seconds to automatically reset the speaker and turn it off .				
2	V-/Prev	Short Press	Volume Down (16 levels in total)				
		Long Press	Previous song ,Long press in AUX mode to decrease the volume				
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,When there is an incoming call: long press to refuse the call 2,Press 2 seconds to enter TWS connection, once connected, long press to disconnect TWS connection 3,If the speaker crashed, hold it for 8 seconds to automatically reset the speaker and turn it off .				
		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 (16 levels in total)				
		Long Press	Next song . Long press in AUX mode to increase the volume				
5	MODE	Short Press	Short press MODE to switch: BT, TF, AUX,				
		Long Press	1. When connected: long press for 2 seconds to disconnect 2. When the Bluetooth connection is disconnected: long press for 2 seconds to connect to the last disconnected mobile phone				
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 off 4,Pause: The white light keeps on					
TF mode		1,Music playback: The white light flashes slowly 2,Pause: The white light keeps on					
AUX mode		1, Music playback: The white light off 2, Pause: The white light keeps on					
Charging		1. Charging: the current battery indicator lights turn on in turn 2. Fully charged: the power indicator is all on					
Eectrical Parameter							
Function		NO	Project	Standard		Unit	Equipment
AUX IN	1	Total harmonic distortion PO=0.5W (THD+N)		0.55		%	AP(AST-2)
	2	input resistance		≥10KΩ		Ω	
	3	Input sensitivity (THD=10%)		800		mV	
	4	SNR (Po=MAX)		80		dB	
	5	Frequency response		70Hz-12KHz		Hz	
	6	THD = 1% Output Power		10		W	
	7	THD =10%Total harmonic distortion output power		11		W	
	8	Degree of separation		68		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		4dBm			
	4	BT receiving sensitivity		-88dBm			
	5	Total harmonic distortion PO=0.5W (THD+N)		0.66		%	
	6	Input sensitivity (THD=10%)		800mV		mV	
	7	SNR (Po=MAX)		83.5dB		dB	
	8	Frequency response		70Hz-20KHz		Hz	
	9	THD = 1% Output Power		8.3		W	
	10	THD =10%Total harmonic distortion output power		11		W	
	11	Degree of separation		70		dB	
	12	Working frequency		2.402~2.480GHz		2.4GHz	
Others	1	Low battery warning voltage		6.5		V	Voltmeter, Ammeter
	2	Automatic shutdown voltage		≅ 6.5		V	
	3	Automatic shutdown time without playing		10		min	
	4	Shutdown power consumption current		≅ 50		uA	
	5	charging current		2000		mA	
	6	charging time		2.5~3.5		H	
	7	Playing time @50% volume		7.5		H	
	8	Playing time @100% volume		4.2		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	52mm		mm	Voltmeter, Audio signal generator
	2		Power	4Ω10W		W/Ω	
	3		F0	150		Hz	
	4		Frequency response	150-20KHZ		Hz	
	5	lithium ion battery	Model/Size	18650		mm	Voltmeter, Ammeter, Volume divider, Battery internal resistance tester
	6		Voltage/Capacity	7.4V/2200mAh		V/mAh	
	7		Internal resistance	<150mR		mΩ	
	8		Factory voltage	7.25~7.85v		V	
	9		Static self-consumption	20		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: 97*62.7*1.2mm				

Product frequency response curve:

