

Shenzhen Welldy Technology Co., Ltd.

Product specification

Product number		D5		Date of writing		2021. 08. 28		file version		V1. 0		
Product function and configuration												
Features		BT, TWS, MIC										
Bluetooth solution		AB5365C				Bluetooth version		V5. 0				
Power amplifier		FT2820P				Decoding format		MP3 WAV APE FLAC				
Battery		3.7V/800mAh										
Speaker		φ 52mm 4Ω/5W				waterproof level		ipx4				
Product Size												
Key function operation instructions:												
1	POWER	dog	<ol style="list-style-type: none"> In the state of music playing: play, pause function In the state of an incoming call: short press to answer the call In the state of answered call: short press to hang up 									
		Press	<ol style="list-style-type: none"> In the off state, press and hold for 2 seconds to turn on the device. In the on state, press and hold for 2 seconds to shut down. When the machine is abnormal or crashes, press and hold for 10 seconds. The machine will automatically reset and 									
		Double click	1. TWS pairing and disconnecting TWS pairing									
		Three hits	<ol style="list-style-type: none"> In the state of Bluetooth connection, three-click to disconnect the current connection. In the state of disconnecting Bluetooth: three-click to return to the last disconnected mobile phone 									
Indicator light description:												
Bluetooth mode		<ol style="list-style-type: none"> Bluetooth is not connected: the blue light flashes quickly Bluetooth connection is successful: the blue light is on Playing music: the blue light is off Pause: the blue light is on 										
charging		<ol style="list-style-type: none"> Plug in the data cable and do not put the wireless charging device on it: the white light flashes three times Plug in the data cable and put the wireless charging device on it: the white light is on continuously 										
Electrical parameters:												
Features		NO	project	parameter	unit	equipment						
Bluetooth @Apple IPAD			Version	5.0+EDR	VER	Bluetooth test fixture and AP						
			Protocol specification (A2DP, HFP, HSP)	3	SET							
			Bluetooth transmit power	2	db							
			Bluetooth receiving sensitivity	-90.5	db							
			Total harmonic distortion PO=0.5W (THD+N)	0.40%	%							
			Input sensitivity (THD=10%)	1000	mV							
			Signal to noise ratio (Po=MAX)	95	dB							
			Frequency response	70~20K	Hz							
			THD = 1% output power	5	W							
			THD = 10% total harmonic distortion output power	NA	W							
Wireless charging			Degree of separation	NA	dB							
			Working frequency	2.4G	Hz							
other			Wireless charging output power (MAX 15W)	5W, 7.5W, 10W, 15W	W	V Ammeter min uA mA h.min h.min m m °C KV						
			Power adapter matching	5V/2A, 9V/2A, 12V/2A								
			Low battery warning voltage	3.4	V							
			Automatic shutdown voltage	3.4	V							
			Automatic shutdown time without playing	10	min							
			Shutdown power consumption current	≤50	uA							
			recharging current	600mA	mA							
			Charging time	1.15	h.min							
			Play time 50% volume	12	h.min							
			Play time 100% volume	3.3	h.min							
Important material			Bluetooth wireless transmission distance	10	m							
			TWS distance	10	m							
			range of working temperature	-10°~55°	°C							
			ESD discharge (contact)	≥4	KV							
			size	52	mm	V W/Ω Hz Hz mm V/mAh mΩ V uA Environmental protection, FR-4, double-sided, 1.0mm thick, copper thickness 1 ounce, lead-free spray Sensitivity -36 ~ -40db Sound pressure 110db SNR 60db						
		trumpet	power	4Ω/ 5W	W/Ω							
			F0	140	Hz							
			Frequency response	140-20KHZ	Hz							
				Model/Size	523450AR	mm	V ammeter sub-capacity meter battery internal resistance tester uA					
				Voltage/capacity	3.7v/800mAh	V/mAh						
			Internal resistance	<140mR	mΩ							
			Factory voltage	3.75-3.95	V							
			Static self-consumption	≤10uA	uA							
		PCBA	Environmental protection, FR-4, double-sided, 1.0mm thick, copper thickness 1 ounce, lead-free spray									
		Mitou	Sensitivity -36 ~ -40db Sound pressure 110db SNR 60db									
Product frequency response curve:												