

F-3056 Module Specification

一. Products overview :

F-3056 bluetooth module for the company independent development of intelligent wireless audio data transmission products, is the low cost High efficiency of double track wireless transmission scheme, module used Taiwan and jie sound chip, for module Provides the high quality sound and compatibility, the overall performance is optimized. F - 3066 bluetooth module from the drive Way, the customer only need to put the module access application products, electricity, connecting key, can quickly achieve .

二. Application field :

This module is mainly used for short music transmission, which can be conveniently and notebook computers, mobile phone, PDA and digital products bluetooth device connected, realize music wireless transmission.

※Bluetooth stereo later

※Later bluetooth headset

※Later bluetooth wireless transmission audio

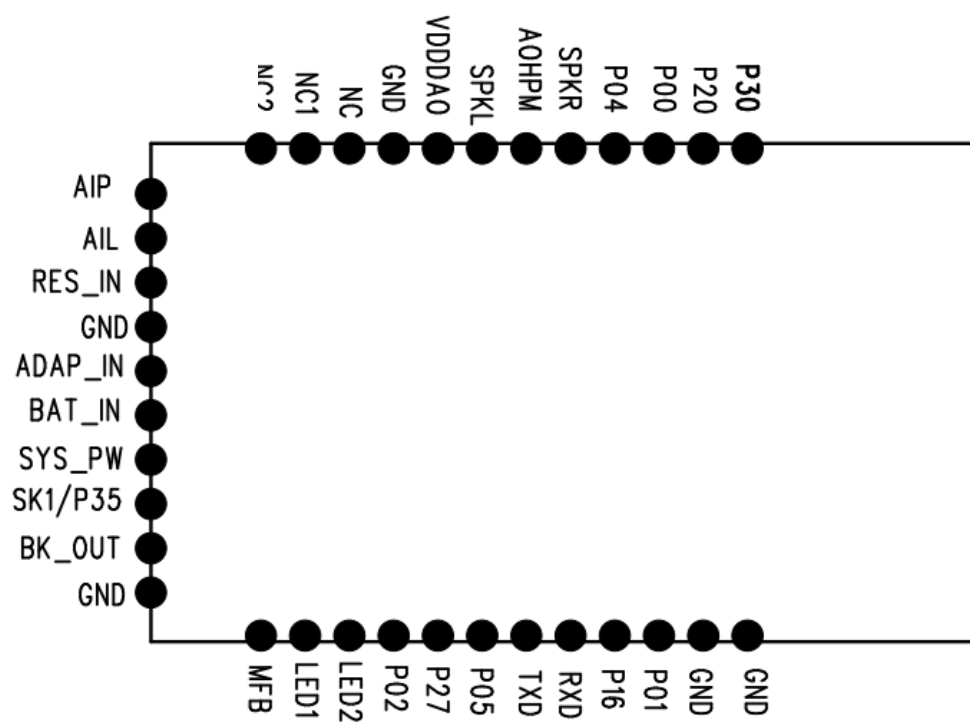
三. Performance parameters :

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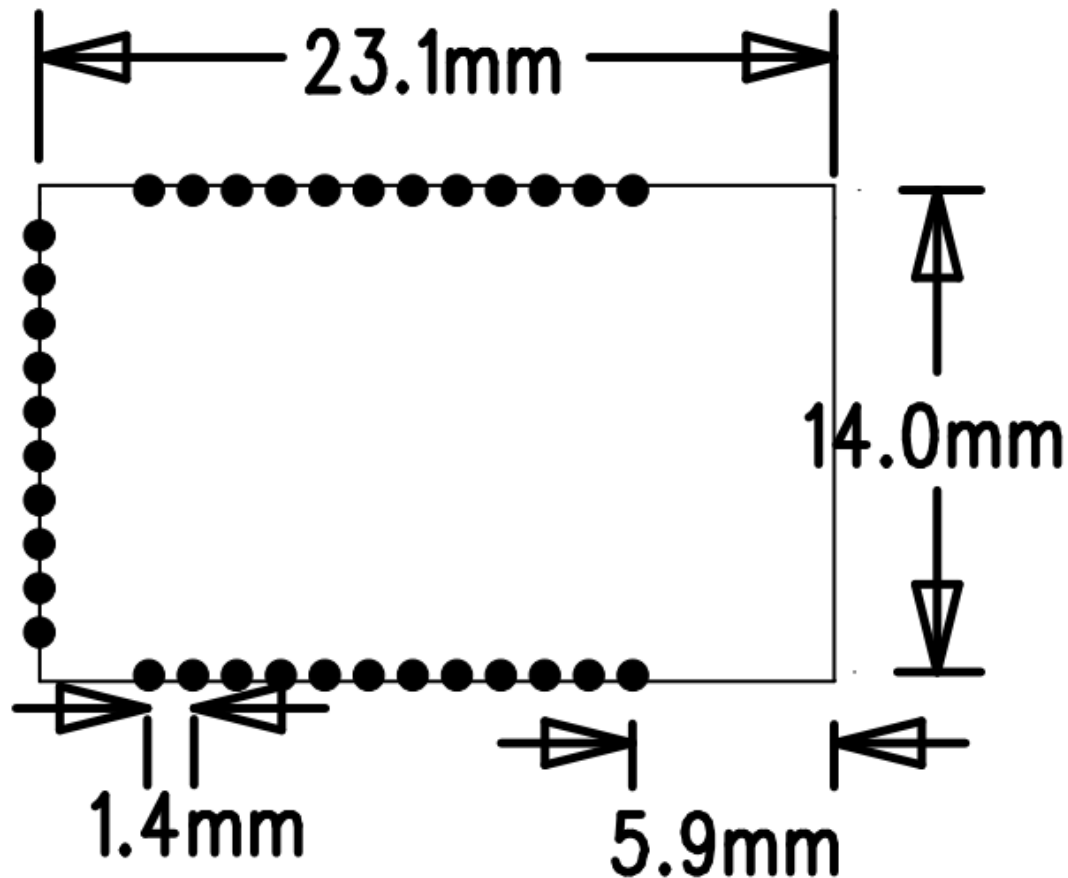
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Model	F-3056
The Bluetooth specification	Bluetooth V3.0+EDR
Support for Bluetooth protocol	AVRCP 1.0, GAVDP 1.0, AVDTP 1.0, A2DP 1.0
Working current	≤30mA
The standby current	<300uA
Working voltage	3.3v—4.5v
Temperature range	-40 ℃ to +80 ℃
The wireless transmission range:	>10m
Transmission power:	CLASS2 MAX 4dB
Sensitivity:	-80dBm@0.1%BER
Frequency range:	2.402GHz-2.480GHz
External interface:	PIO, UART
Audio performance	High acoustic fidelity sound
The audio signal to noise ratio:	≥75dB
Distortion	≤0.1%
Module size	23.100X14.00X2mm

五. Module feet bitmap:



• **Module size:**



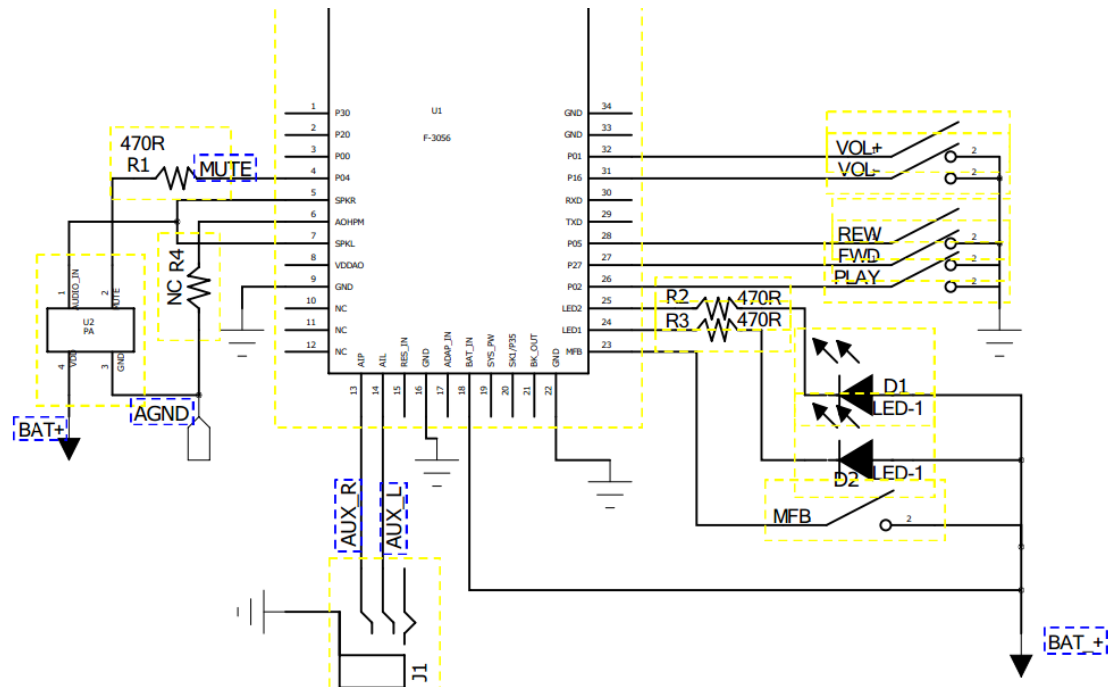
六. Pin function declaration:

1、Pin Configurations

PIN NO.	NAME	TYPE	FUNCTION
1	P30	Digital	Line In protect
2	P20	Digital	Programming input/output
3	P00	Digital	Programming input/output
4	P04	Digital	Programming input/output
5	SPKR	Audio	Right channel audio input
6	AOHPM	Audio	The audio output end
7	SPKL	Audio	Left channel audio input
8	VDDAO	Power	LDO OUTPUT 3.3V
9	GND	Power	GND
10	NC		NC
11	NC		NC
12	NC		NC
13	AIP	Audio	Aux-R-IN
14	AIL	Audio	Aux-L-IN
15	RES_IN	Digital	RESET
16	GND1	Power	GND
17	ADAP_IN	Digital	Adapt input
18	BAT_IN	Power	VBAT+
19	SYS_PW	Power	SYSTEM POWER output
20	SK1/P35	Digital	Programming input/output
21	BK_OUT	Power	1.8v OUTPUT
22	GND2	Power	GND
23	MFB	Digital	Key long according to boot used/impending
24	LED1	Sink	Light 1 control end
25	LED2	Sink	Light 2 control end
26	PLAY	Digital	paly/pause
27	FWD	Digital	NEXT
28	REW	Digital	UP
29	TX	Digital	UART TX
30	RX	Digital	UART RX

31	P16	Digital	Programming input/output
32	P01	Digital	Programming input/output
33	GND3	Power	GND
34	GND4	Power	GND

Application circuit diagram



Matters needing attention:

The 1 antenna side not of metal

2 box can not be large shield

3 should be placed near the electrolytic capacitor in the PAD modules.

The 4 common end of noise inhibition, the need to increase the operational amplifier in front amplifier or master to eliminate interference

5 main control, power amplifier, the module must be well grounded, don't allow the island or closed loop, module grounding

And the main control and power amplifier ground potential difference between shall not be greater than 1mV.

The output power of this device is less than 20mW. The SAR test is not required.

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

A certified modular has the option to use a permanently affixed label, or an electronic label. For a permanently affixed label, the module must be labelled with an FCC ID: KKI-F-3056. The OEM manual must provide clear instructions explaining to the OEM the labelling requirements, options and OEM user manual instructions that are required.

For a host using a this FCC certified modular with a standard fixed label, if (1) the module's FCC ID is not visible when installed in the host, or (2) if the host is marketed so that end users do not have straightforward commonly used methods for access to remove the module so that the FCC ID of the module is visible; then an additional permanent label referring to the enclosed module:

“ Contains Transmitter Module FCC ID: KKI-F-3056” or “Contains FCC ID: KKI-F-3056” must be used. The host OEM user manual must also contain clear instructions on how end users can find and/or access the module and the FCC ID.

Host product is required to comply with all applicable FCC equipment authorizations regulations, requirements and equipment functions not associated with the transmitter module portion. compliance must be demonstrated to regulations for other transmitter components within the host product; to requirements for unintentional radiators (Part 15B). To ensure compliance with all non-transmitter functions the host manufacturer is responsible for ensuring compliance with the module(s) installed and fully operational. If a host was previously authorized as an unintentional radiator under the Declaration of Conformity procedure without a transmitter certified module and a module is added, the host manufacturer is responsible for ensuring that after the module is installed and operational the host continues to be compliant with the Part 15B unintentional radiator requirements. Since this may depend on the details of how the module is integrated with

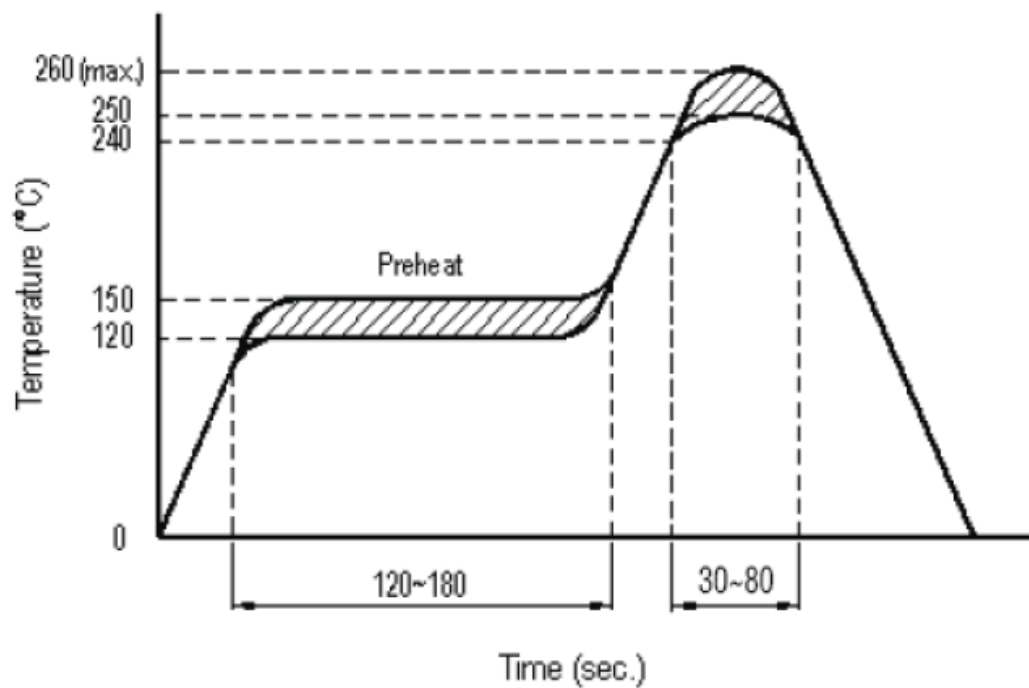
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the host, we suggest the host device to recertify part 15B to ensure complete compliance with FCC requirement: Part 2 Subpart J Equipment Authorization Procedures , KDB784748 D01 v07, and KDB 997198 about importation of radio frequency devices into the United States.

SMT :

Reliability solder temperature chart



Reflow temperature chart:

