

SPECIFICATION**FM STEREO TUNER MODULE****B-102BC**

- FM 76 to 108MHz (BL5767 chip)
- Automatic search tuning function
- 4layer PCB, Low noise, High sensitivity
- Low power , Mini size
- I²C-bus and 3-wire bus Mode.

CUSTOMER			
Quantity		Date	
APPROVAL SIGNATURES:			
APPROVED		CHECKED	

Version V1.0

TEL: 0755-81599535 27019758 FAX:0755-28029002 E-mail:he@lefen.com

Addr: B-link industry garden,GuanLan town, BaoAn District,ShenZhen,China

<http://www.b-link.net.cn>

1. Scope: This specification applied to FM stereo tuner Module.

Applications

- ◎ MP3, MP4 players
- ◎ USB FM radio
- ◎ GPS, PDAs
- ◎ Portable radios
- ◎ Digital sound
- ◎ Consumer electronics

2. General specification

NO	ITEM	SPEC	NOTE
1	Frequency Range	76 - 108MHz	-
2	Clock (X-TAL)	32.768KHZ	TYP
3	Operating temperature	-10 - 40°C	-
4	Humidity	85%	MAX
5	Vesd (discharge Voltage)	2000V	MAX

3. DC Specification

NO	ITEM	Test condition	SPEC			
			MIN	TYP	MAX	UNIT
1	Supply Voltage	ON Station	2.8	3.0	5.0	V
2	Supply Current	ON Station	8.5	12	14	mA
3	Supply Current	Standby	34	60	110	uA

4. Electrical specification

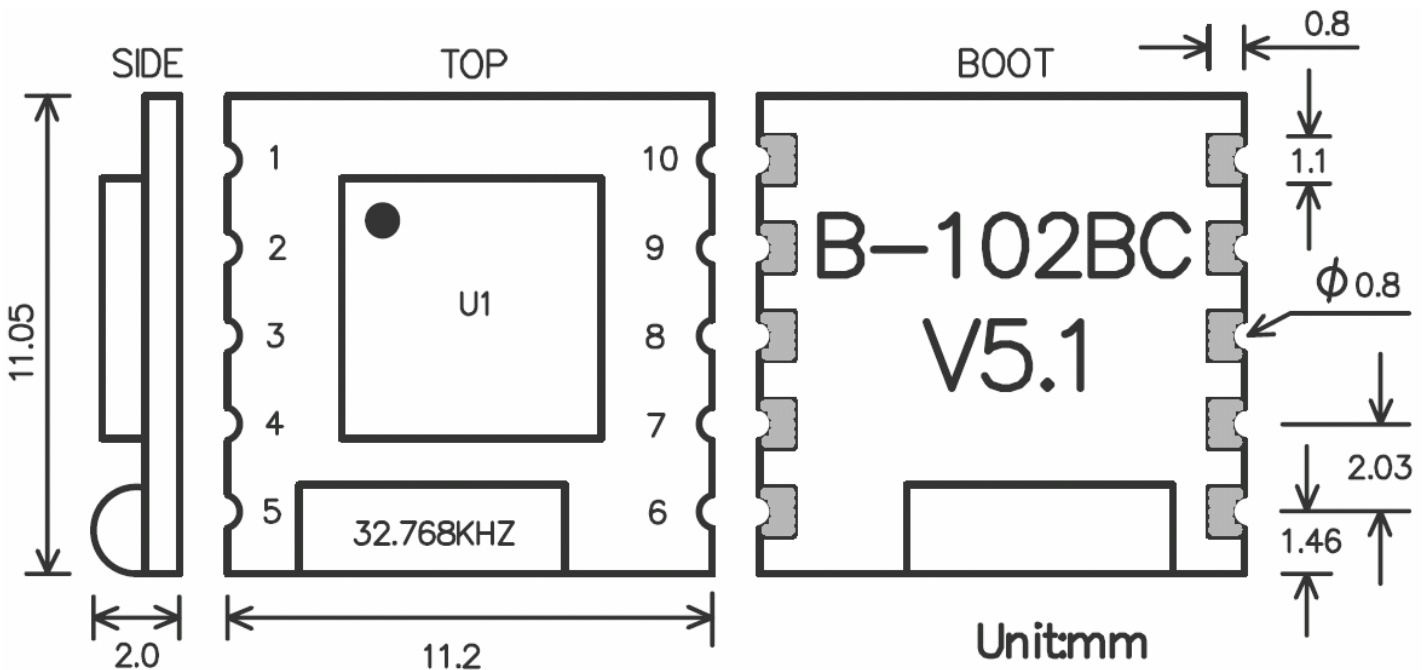
NO	ITEM	Test condition	SPEC			
			MIN	TYP	MAX	UNIT
1	IF Frequency	IF filter center frequency	215	225	235	KHz
2	RF input impedance	input resistance at pins RF11 and RF12 to RFGND	75	100	125	Ω
3	RF sensitivity input voltage	76-108 MHz; fmod = 1 kHz; (S+N)/N = 26 dB	---	2	3.5	uV
4	(S+N)/N	maximum signal plus noise-to-noise ratio	54	60	---	dB
5	Stereo separation	Δf 75Khz fmod=1KHz	24	30	---	dB
6	Audio output	Δf 75Khz fmod=1KHz	60	75	90	mV
7	T.H.D	Δf 75Khz fmod=1KHz	---	0.5	1.5	%

TEL: 0755-81599535 27019758 FAX:0755-28029002 E-mail:he@lefen.com

Addr: B-link industry garden, GuanLan town, BaoAn District, ShenZhen, China

<http://www.b-link.net.cn>

7. PCB Application Size

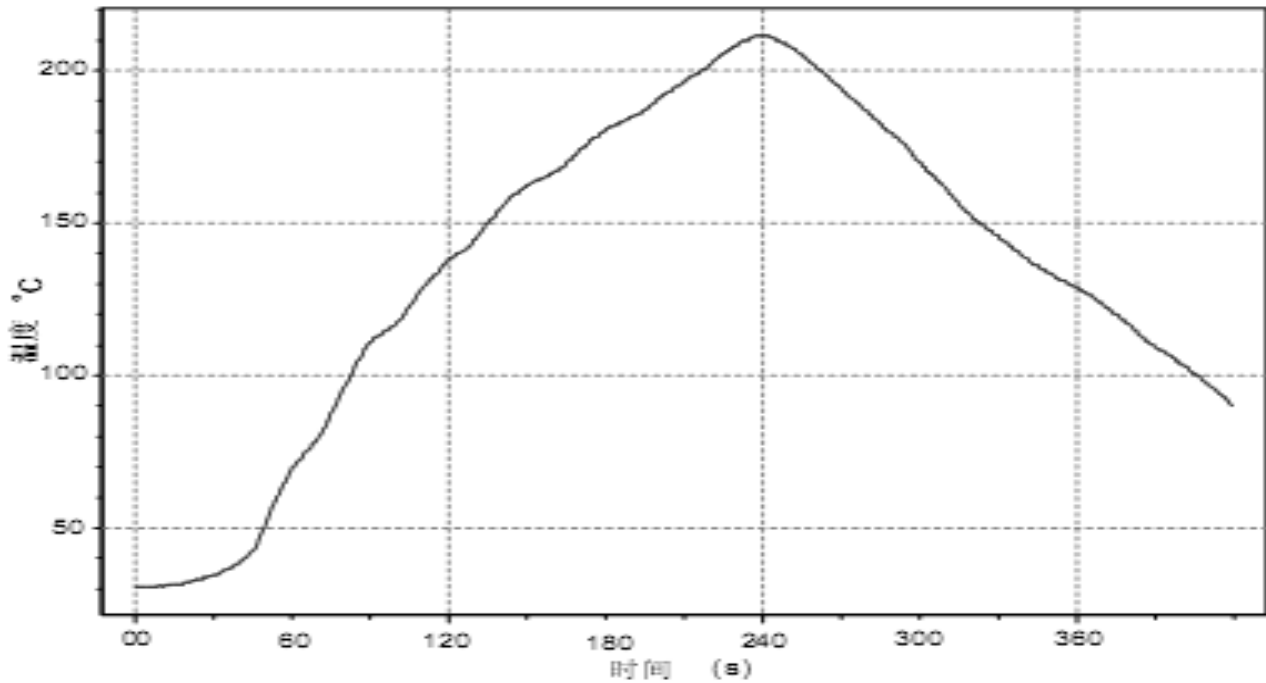


8. PCB layout notes:

- * Please advert copper & trace of ANT part shall be short and wide ASAP .
- * Keep ANT part far away from noise source. Such as digital part ,OSC part ,MPX output(strong IF signal),etc.
- * Keep POWER part(VCC,GND) copper & trace shall be wide and short ASAP ,and far away from noise source. FM GND shall grounding clear GND.

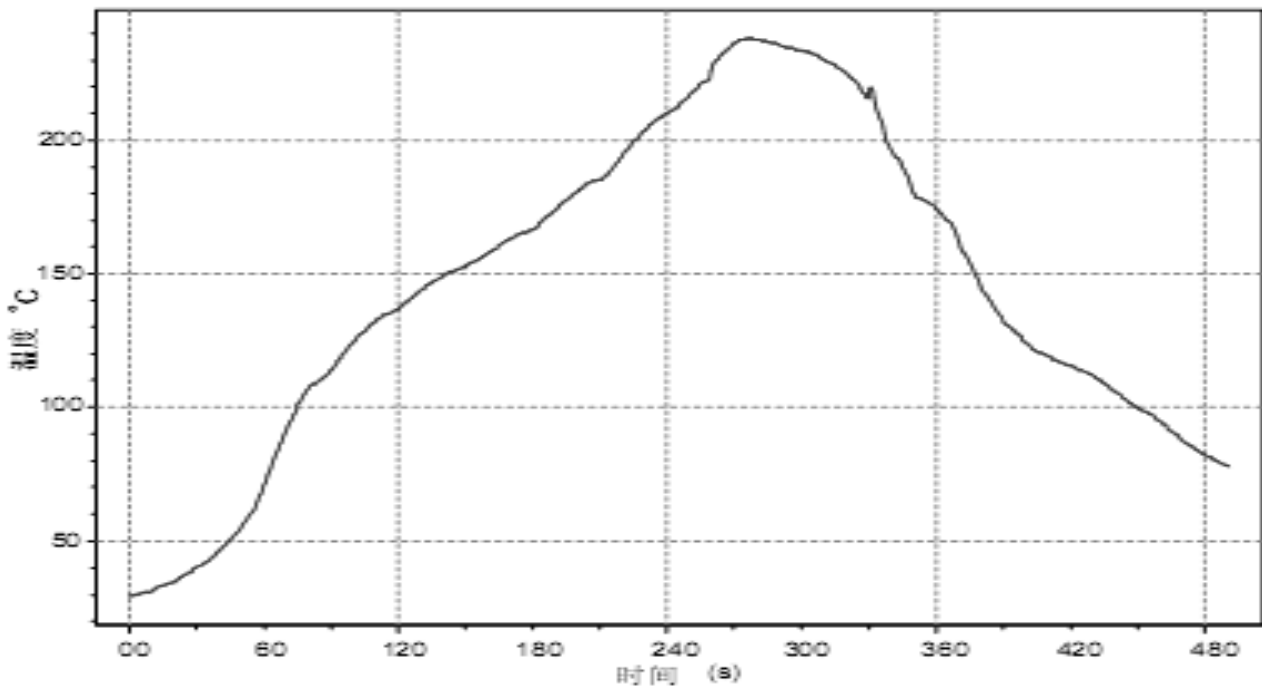
9.Reflow profile

9-1. Pb Graph



NOTE: MAX Temp 215 °C (Pb) ,Temperature maintained about 200 °C (40—50sec)

9-2. ROHS Graph



NOTE: MAX Temp 240 °C (ROHS) ,Temperature maintained about 220 °C (50—60sec)

TEL: 0755-81599535 27019758 FAX:0755-28029002 E-mail:he@lefen.com

Addr: B-link industry garden, GuanLan town, BaoAn District, ShenZhen, China

<http://www.b-link.net.cn>