

深圳市天眷科技有限公司

SHENZHEN TIANJUAN TECH.CO.,LTD

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产 品 规 格 书

SPECIFICATION FOR PRODUCT

客 户

CLIENT

品 名

TJ-102BC (CPU 为 TEA5767)

PARTNAME

规 格

11.2X11.2X1.9

SPECIFICATION

厂 商

深圳市天眷科技有限公司

VENDOR

承认日期

APPROVED DATE

审 批	拟 制

确 认

FM STEREO TUNER MODULE

TJ-102BC

(IIC/3 Wire Mode selectable)

(IC Philips TEA5767HN)

- FM 76 to 108MHz
- Automatic search tuning function
- High sensitivity ,Low noise
- Low_power
- Mini size

ENVIRONMENT TEST

1) TEMPERATURE TEST

After the tuner shall be exposed for each 120 minutes in a test chamber of temperature cycle at 20°C,40°C,0°C,20°C and then the tuner shall be operated satisfactorily electrical performance.

2) TEMPERATURE SHOCK TEST

After 12 hours exposure in a test chamber at 50°C±2°C or -10°C±2°C and then exposed in a room temperature for more than 4 hours, the tuner shall be operate satisfactorily.

3) HUMIDITY TEST

After 5 hours exposure in a test chamber at 40°C±5°C and 90±5% R.H., then exposed for 4 hours in a room temperature, there shall be no deterioration in electrical performance.

In addition, the gain variation shall be less than 3dB and frequency drift shall be less than 500 kHz.

4) VIBRATION TEST

At condition, amplitude and oscillation shall be 2mm and 1,000 C.P.M. respectively. There shall be no looseness after each 2 hours of top-bottom back-forth and right-left vibrations.

After this test the gain variation shall be less than 3dB and frequency drift shall be less than 200 kHz.

5) DROP TEST

After the packed tuner at 50cm height is dropped six times from each side , gain variation shall be less then 3dB and frequency drift shall be less than 200 kHz.

6) OPERATING TEMPERATURE TEST

After 60 seconds reflow soldering at 250°C±5°C, the tuner shall be operate satisfactorily.

This specification applied to FM STEREO tuner Module.

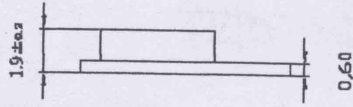
2. General specification

NO	ITEM	SPEC	NOTE
1	Frequency Range	87.5(76) – 108MHz	
2	IF Frequency	225KHz	Upper heterodyne
3	RF input impedance	75 Ω	Unbalance
4	Supply Voltage	3V	
5	Operating temperature	-10 -55°C	
6	Humidity	85% MAX	
7	Clock (X-TAL)	32.768KHz	

3. Electrical specification

NO	ITEM	Test condition	SPEC			
			MIN	TYP	MAX	UNIT
1	Sensitivity (S/N 30dB)	90.0MHz		6	9	dB
		98.0MHz		6	9	dB
		106MHz		6	9	dB

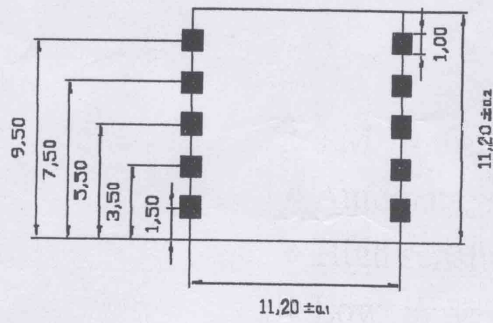
2	S/N Ratio	40KHz	55	60	-	dB
3	Image rejection	87.5~108MHz	25	30	-	dB
4	Stereo separation	Δf 75Khz fmod=1KHz	25	30	-	dB
5	Audio output	Δf 22.5Khz fmod=1KHz		80		mv
6	T.H.D	Δf 75Khz fmod=1KHz		0.5	1.5	%
4. Standard test condition						
NO	ITEM	MONO		STEREO		
1	Modulation Frequency	1KHz 22.5KHz /dev $V_{RF}=1mV$		1KHz, 75KHz/dev including 10% pilot		
2	Test Frequency	98MHz				
3	RF Input level	60dBuv				
5. DC Specification						
ITEM	Test condition	SPEC				
		MIN	TYP	MAX	UNIT	
Supply Voltage	ON Station	2.5	3.0	5	V	
Supply Current	ON Station	8.5	10	13	mA	



TJ-102BC

(TOP VIEW)

- 1.DATA
- 2.CLK
- 3.BUSMODE
- 4.W/R
- 5.VDD



- 10.ANT
- 9.MPX□
- 8.RAV□
- 7.LAV□
- 6.VSS

TJ-102BC 規格圖