

# **SPECIFICATIONS/MANUAL**

## **FCC15.19**

This device is verified to comply with part 15 of the FCC Rules for use with cable television service.

## **FCC 15.105**

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

## **FCC 15.21**

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

<b>AUG, 10. 2004</b>	<b>SPECIFICATION</b>	<b>FM STEREO TUNER</b>
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## 1. Applicable product P/No

: TRF-901 FM STEREO TUNER MODULE

## 2. Appearance

Unit shall not have any excessive strain, bruise, uneven plating etc,  
which decrease its commercial value

## 3. General Specifications

## 4. Test Modulation

No.	Item		Specification
1	Frequency Range	KR/USA/Europe/CCIR	87.5 ~ 108MHz
		Japan Wide	76 ~ 108MHz
2	Receiving System	KR/USA/Europe/CCIR	Upper Super Heterodyne System
		Japan	Lower Super Heterodyne System
3	Intermediate Frequency		375KHz
4	Operating Temperature		-10 ~ +65℃
5	ANT Input Impedance		75Ω Unbalanced

No	Item	MONO	STEREO
1	Modulation Frequency	1KHz, 22.5KHz/dev	1KHz, 75KHz/dev (PILOT=10%, Fpilot=19KHz)
2	RF Input Level	60dBμV	

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### 5. DC Specification

Item	Test Condition	Specification			
		MIN	TYP	MAX	UNIT
Supply Voltage(Vcc)	Off station	2.7	3.0	3.3	V
Consumption Current		-	7.0	8.5	mA

### 6. Electronic Specification

No .	Item	Test Condition	Specification			
			MIN	TYP	MAX	UNIT
1	Usable Sensitivity (S/N 30dB)	90.0MHz	-	6	9	dB $\mu$ V
		98.0MHz	-	6	9	dB $\mu$ V
		106.0MHz	-	6	9	dB $\mu$ V
2	S/N Ratio	22.5KHz/dev	50	60	-	dB
3	Distortion	1KHz, 22.5KH/dev	-	0.5	1.5	%
4	Audio Output Level	1KHz, 22.5KHz/dev	60	80	100	mV
5	Image Rejection	106.0MHz	25	30	-	dB
6	Stereo Separation	1KHz, 75KHz/dev	20	30	-	dB

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## 7. Reliability Test

### 1) Low and High Temperature Storage Test

After storage at  $-10^{\circ}\text{C}$  or  $+65^{\circ}\text{C}$  for each 96hours recovery in the room,  
Tuner must meet specification as approved.

### 2) Humidity

After exposure of 96hours in a chamber of temperature at  $+40^{\circ}\text{C}$  and relative humidity 90%, then after 4hours exposure in normal temperature and humidity, tuner must meet specification as approved.

### 3) Drop Test

A packed unit shall be dropped on the board from 1m in height and this test shall be performed on each plane of the package.  
After this test, there shall be No Looseness, etc.

### 4) Temperature Range

Nothing shall be found abnormal in operation a range  $-10^{\circ}\text{C} \sim +65^{\circ}\text{C}$ .

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