BH1414K

Multimedia ICs

Wireless Audio Link IC BH1414K

The BH1414K is a FM stereo transmitter IC that uses a simple configuration. This IC consists of a stereo modulator for generating stereo composite signals and a FM transmitter for broadcasting a FM signal on the air. A high S/N ratio and good timbre transmitter circuit can be composed with a few components. It is available for many applications due to the varieties of setting such as transmission output by serial data input.

Applications

CD changer, Car TV, Car navigation, Wireless speakers, Personal computer (sound board), Game machine

Features

1) It is possible to improve the timbre because it has the pre-emphasis circuit, limiter circuit, and the 19kHz/38kHz low-pass trap filter circuit.

- 2) Built-in pilot-tone system FM stereo modulator circuit.
- 3) The transmission frequency is stable because it has a PLL system for the FM transmitter circuit.
- 4) PLL data input (CE, CK, DA) by serial input.
- 5) It is possible for input level setting, monaural operation and output ON/OFF control by serial input.
- 6) It is possible for the transmission output control.

• Absolute maximum ratings (Ta = 25° C)

Parameter	Symbol	Limits	Unit	
Supply voltage	Vcc1	+9.0	V	
	Vcc2	+10.0		
Power dissipation	Pd	500	mW	
Storage temperature range	Tstg	-55 to +125	°C	

* Reduced by 5mW for each increase in Ta of 1°C over 25°C.

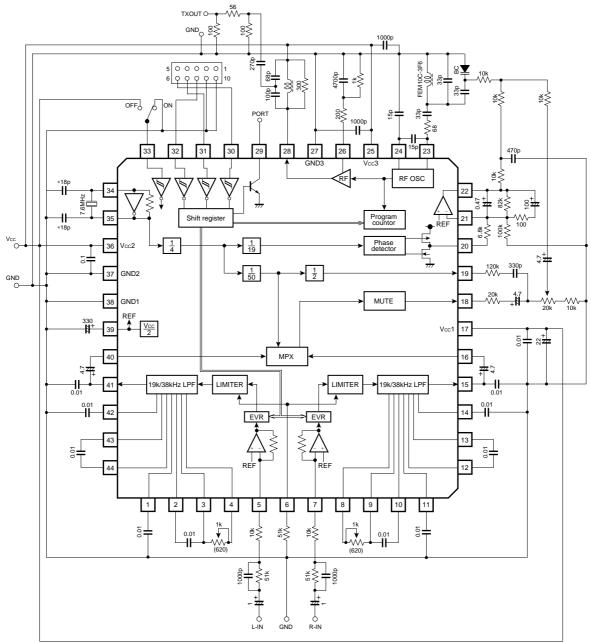
•Recommended operating conditions (Ta = 25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Operating supply voltage	Vcc	4.5	-	5.5	V
Operating temperature range	Topr	-40	-	+85	°C
Audio input level	VIN-A		-	500	mVrms
Audio input frequency	fin-a	20	- L	15k	Hz
Transmission frequency	fтx	75	_	110	MHz



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Application example



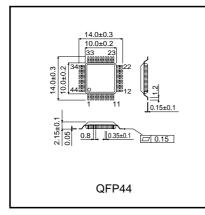
 $[\]ast The \ constant \ of \ the \ capacitor \ must \ be \ determined \ by \ the \ agreement \ with \ a \ crystal \ maker.$



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•External dimensions (Units : mm)



Appendix

Notes

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Products listed in this document are no antiradiation design.

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