Wireless Audio Link IC BH1417F

The BH1417F is a FM stereo transmitter IC that transmits simple configuration. The IC consists of a stereo modulator for generating stereo composite signals and a FM transmitter for broadcasting a FM signal on the air. The stereo modulator generates a composite signal which consists of the MAIN, SUB, and pilot signal from a 38kHz oscillator. The FM transmitter radiates FM wave on the air by modulating the carrier signal with a composite signal. Frequency is set for North America.

Applications

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

Features

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

- 2) Built-in pilot-tone system FM stereo modulator circuit.
- 3) The transmission frequency is stable because it has a PLL system FM transmitter circuit.
- 4) PLL controls data input in parallel (4bits, 14ch for North America).

Parameter	Symbol	Limits	Unit	Conditions					
Supply voltage	Vcc	+7.0	V	Pin8,12					
Date input voltage	Vin-d	-0.3 to Vcc+0.3	V	Pin15,16,17,18					
Phase comparator output voltage	Vout-p	-0.3 to Vcc+0.3	V	Pin7					
Power dissipation	Pd	450 [*]	mW						
Storage temperature	Tstg	-55 to +125	°C						
	0500								

•Absolute maximum ratings (Ta = 25°C, In measurement circuit.)

* Derating : 4.5mW/°C for operation above Ta=25°C.

• Recommended operating conditions (Ta = 25° C)

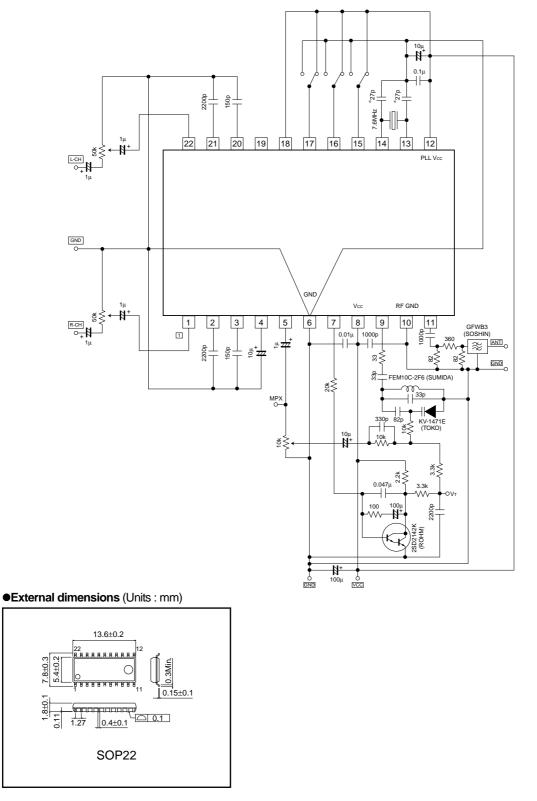
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Operating supply voltage	Vcc	4.0	-	6.0	V	Pin8,12
Operating temperature	Topr	-40	_	+85	°C	
Audio input level	Vin-a	-	_	-10	dBV	Pin1,22
Audio input frequency band	fin-A	20	_	15k	Hz	Pin1,22
Pre-emphasis time constant set up range	τ pre	-	_	155	μs	Pin2,21
Transmission frequency(200kHz step)	fтx	87.7 106.7	_	88.9 107.9	MHz	Pin9,11
Control terminal "H" level input voltage	Vін	0.8Vcc	-	Vcc	V	Pin15,16,17,18
Control terminal "L" level input voltage	VIL	GND	-	0.2Vcc	V	Pin15,16,17,18



Multimedia ICs

Application circuit

US BAND (88.0MHz~89.2MHz)



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