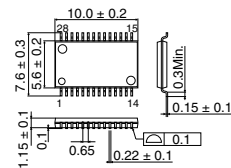


RF amplifier for Car CD BH3515FV

● Description

BH3515FV is a RF amplifier for Car CD player that incorporates 3 speed equalization with gain switching and operating voltage of 3 ~ 5.5V. Equalizer circuit is applied to x1 time speed, x1.5 times speed, and x2 times speed. Gain switching pin is incorporated for CD-RW

● Dimension (Units : mm)



● Features

- 1) Multi-read type (CD, CD-R, CD-RW)
- 2) For x1speed, x1.5speed, x2speed
- 3) Operating power supply voltage range: 3V~5.5V

SSOP-B28

● Applications

CD, CD-R, CD-RW read type Car CD,
Car CD with shock-proof function

● Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	7.0	V
Power dissipation	Pd	800	mW
Operating temperature range	Topr	-40 ~ +85	°C
Storage temperature range	Tstg	-55 ~ +125	°C

Derating : 8.0mW/°C for operation above Ta=25°C

● Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage	V _{CC}	3.0	3.3	5.5	V

● Electrical characteristics (Unless otherwise noted; Ta=25°C, V_{CC}=3.3V)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
No load consumption current	I _Q	15	20	25	mA	Normal gain
Adder amp. gain 1 (at normal)	GRF1	4	6	8	dB	Normal gain
Adder amp. gain 2 (at RW)	GRF2	16	18	20	dB	Gain up
AGC operation level 1	VOPAGC1	580	700	820	mVp-p	V _{CC} =3.3V, f=500kHz, V _{IN} =500mVpp
AGC operation level 2	VOPAGC2	0.95	1.15	1.35	Vp-p	V _{CC} =5V, f=500kHz, V _{IN} =500mVpp
Frequency characteristic 1	Gf1	2	3.5	5	dB	f=144k/720k, SPDCTL=Low (x1 speed)
Frequency characteristic 2	Gf2	2	3.5	5	dB	f=216k/1.08M, SPDCTL=Hi-Z (x1.5 speed)
Frequency characteristic 3	Gf3	2	3.5	5	dB	f=288k/1.44M, SPDCTL=High (x2 speed)
RFDET detection level	V _{RFDET}	70	100	130	mVp-p	f=500kHz, RFDET=H L

● Application Circuit

