查询BH76909GU供应商 捷多邦，专业PCB打样工厂，24小时加急出货

Structure	Silicon Monolithic Integrated Circuit
Product name	Low voltage operation video driver with LPF
Type	**BH76909GU**
Outer dimensions	Fig.1 VCSP85H1

Function

- Built in 9dB AMP.
- Built in standby function
- Built in LPF (8 order) (f=4.5MHz)
- No output coupling capacitor required

※ Radiation resistance is not included in the design.

■Absolute Maximum Ratings （Ta=25℃）

Parameter	Symbol	Limits	Unit
Supply voltage	Vcc	3.55	V
Power dissipation	Pd	580	mW
Operating temperature	Topr	-40～+85	℃
Storage temperature	Tstg	-55～+125	℃

＊ In case mounting the ROHM standard application board (50mm × 58mm × 1.6mm)

＊ Reduced by 5.8 mW/°C at 25°C or higher.

■Operating range （Ta=25℃）

Parameter	Symbol	Min.	Typ.	Max.	Unit
Supply voltage	Vcc	2.5	3.0	3.45	V

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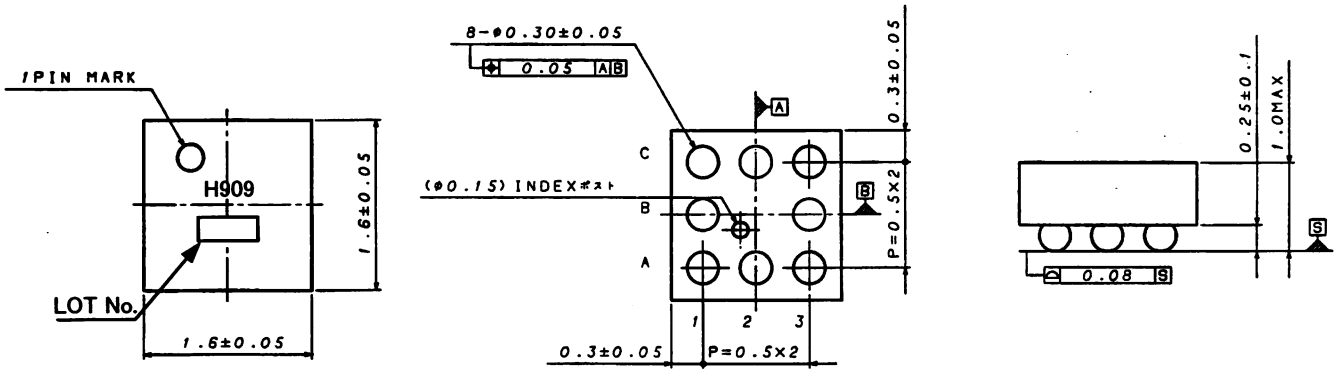
■Electrical characteristics 【Unless otherwise noted, Ta=25℃, VCC=3V】

Parameter		Symbol	Limits			Unit	conditions
			Min.	Typ.	Max.		
Circuit current	ACTIVE	Icc_1	—	15	25	mA	No signal
	STANDBY	Icc_2	—	0.0	2	μA	Standby mode
Voltage gain		G_V	+8.5	+9.0	+9.5	dB	Vin=100KHz,0.7Vpp
Maximum output level		V_{omv}	4.5	5.2	—	Vpp	f=10KHz、THD=1%
Frequency characteristics	1	G_{f1}	-0.95	-0.2	0.2	dB	Vin=0.7Vpp f=4.5MHz/100KHz
	2	G_{f2}	-5.0	-1.5	-0.5	dB	Vin=0.7Vpp f=8.0MHz/100KHz
	3	G_{f3}	—	-26	-18	dB	Vin=0.7Vpp f=18MHz/100KHz
Differential Gain		D_G	—	0.5	3.0	%	VIN= 0.7Vpp Standard stair step signal
Differential Phase		D_P	—	1.0	3.0	deg	VIN= 0.7Vpp Standard stair step signal
Output pin source current		I_{extin}	15	30	—	mA	Add 4.5V to Output pin through 150Ω
Output DC offset		V_{off}	-50	0	50	mV	No signal Voff=(Vout pin voltage)÷2
Standby SW Change Voltage	High Level	V_{thH}	1.2	—	V_{cc}	V	ACTIVE mode
	Low Level	V_{thL}	0	—	0.45	V	STANDBY mode
Standby SW Input Current High Level		I_{thH}	35	45	60	μA	3.0V is applied to B3
Input Impedance		R_{in}	105	150	195	kΩ	1.0V is applied to A3 Input current measurement

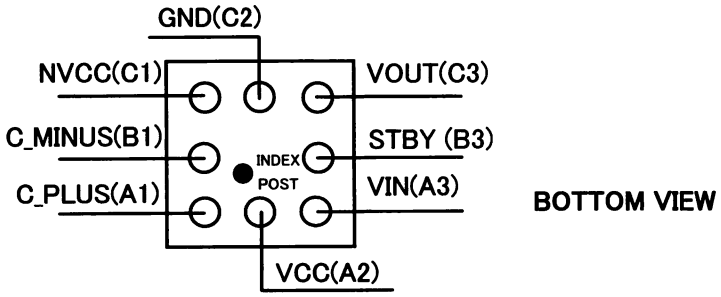
■Control pin settings

Parameter	Status	Operational mode
STANDBY (B3)	H	ACTIVE
	L	STANDBY
	OPEN	

■Outer dimensions • PIN arrangements



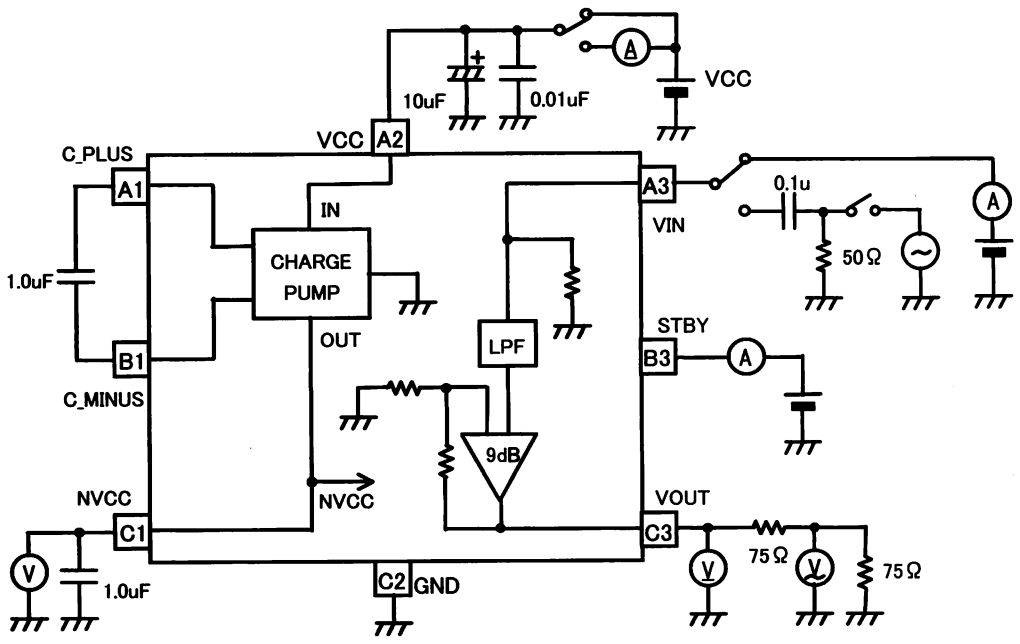
(UNIT: mm)



BOTTOM VIEW

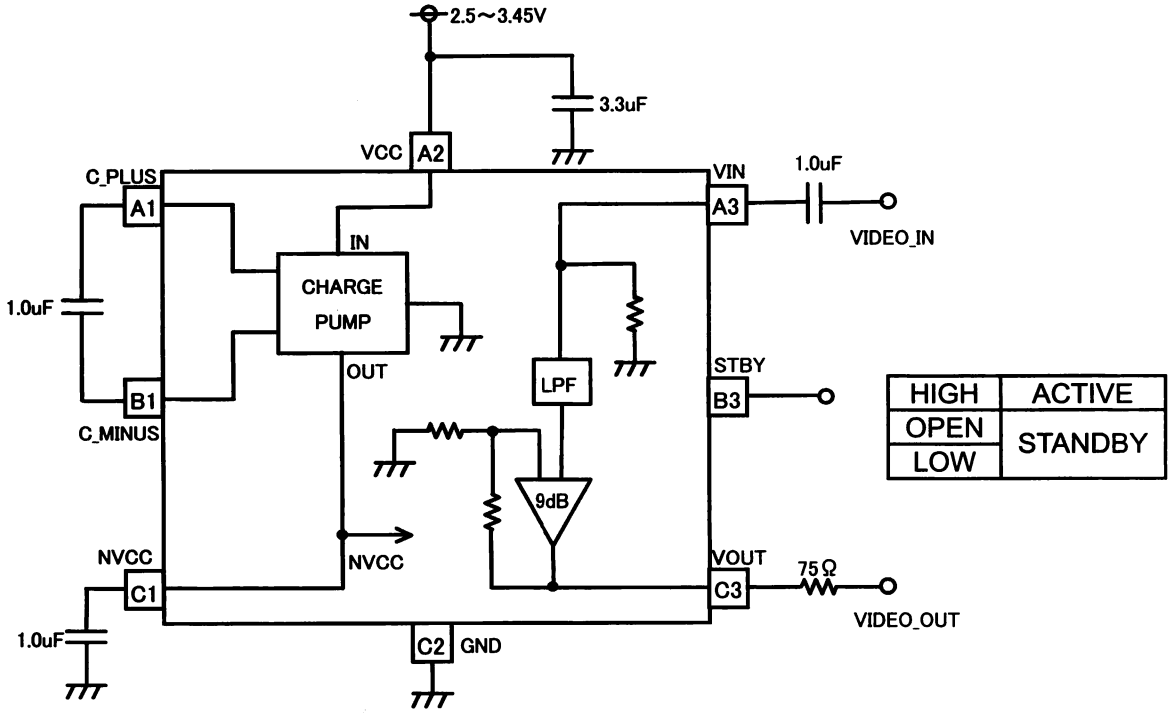
Fig.1

■Measurement circuit



※ Test circuit is intended for shipment inspections, and differs from application circuit.

■Application circuit



■Cautions on use

(1) Layout of decoupling capacitor

As the wiring length of decoupling capacitor between VCC terminal (A2) and GND terminal (C2) becomes longer, the noise quality becomes worse. Make an enough consideration about the layout of decoupling capacitor.

(2) Absolute maximum ratings

If applied voltage, operating temperature range, or other absolute maximum ratings are exceeded, the LSI may be damaged. Do not apply voltages or temperatures that exceed the absolute maximum ratings. If you think of a case in which absolute maximum ratings are exceeded, enforce fuses or other physical safety measures and investigate how not to apply the conditions under which absolute maximum ratings are exceeded to LSI.

(3) Operation in strong magnetic fields

Adequately evaluate use in a strong magnetic field, since there is a possibility of malfunction.

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Taiwan / Taipei	TEL : +866(2)2500-6956	FAX : +866(2)2503-2869
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Japan /
(Internal Sales)

Tokyo 2-1-1, Yaesu, Chuo-ku, Tokyo 104-0082
TEL : +81(3)5203-0321 FAX : +81(3)5203-0300

Yokohama 2-4-8, Shin Yokohama, Kohoku-ku, Yokohama, Kanagawa 222-8575
TEL : +81(45)476-2131 FAX : +81(45)476-2128

Nagoya Dainagayo Building 9F 3-28-12, Meieki, Nakamura-ku, Nagoya,Aichi 450-0002
TEL : +81(52)581-8521 FAX : +81(52)561-2173

Kyoto 579-32 Higashi Shiokouji-cho, Karasuma Nishi-iru, Shiokoujidori, Shimogyo-ku, Kyoto 600-8216
TEL : +81(75)311-2121 FAX : +81(75)314-6559

(Contact address for overseas customers in Japan)

Yokohama TEL : +81(45)476-9270 FAX : +81(045)476-9271

As of 18th. April 2005