

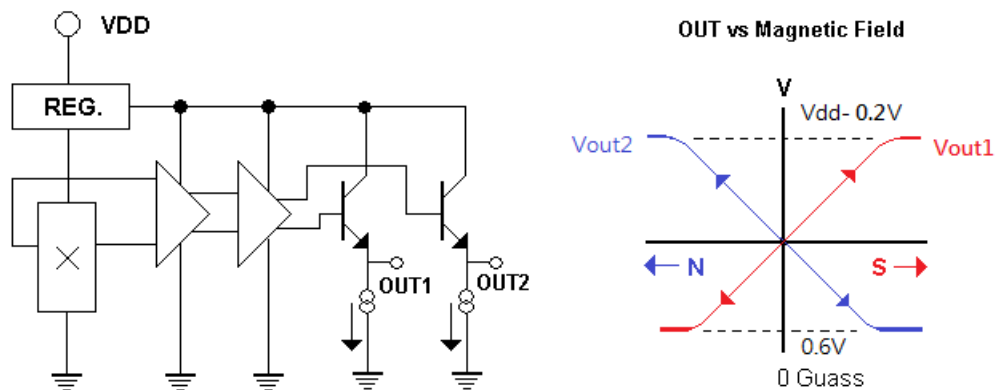
**高靈敏度線性霍爾感應 IC****產品特色：**

- 大工作範圍 3.0V ~ 12V、-40°C ~ 125°C
- 反應頻率達 23kHz
- 高磁場靈敏度  
在 3V 工作電壓，磁場靈敏度為 10 mV/ Gauss (差動輸出)  
在 5V 工作電壓，磁場靈敏度為 20 mV/ Gauss (差動輸出)
- 低工作電流 3mA 與 微型化封裝 TO-94、SOT-25

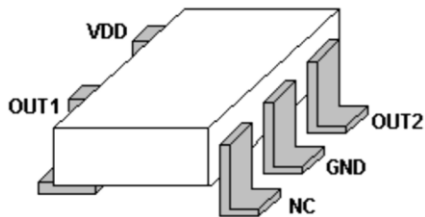
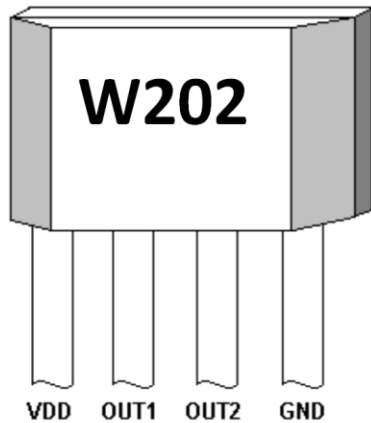
**功能描述：**

WSH202 將磁感元件、線性放大器、靈敏度控制器與輸出驅動電路整合在一起。它能極度準確地追蹤細微的磁場強度變化—通常此一磁場強度變化細微至無法用正常磁場開關來工作。

WSH202 一般運用於電流偵測、齒輪偵測、位置偵測與動作偵測等。當作為磁場強度偵測器時—它可以有效的量測監控系統的工作效能而完全不在乎系統的負載，工作環境與電器干擾。



Winson reserves the right to make changes to improve reliability or manufacturability.



### 絕對最大可耐規格

工作電壓, Vdd	-----	14V
磁場強度, B	-----	Unlimited
輸出電流, Iout	-----	2mA
工作溫度範圍, Ta	-----	-40°C to +125°C
儲存溫度範圍, Ts	-----	-65°C to +150°C
耐功率消耗, Pd		
TO-94	-----	500mW
SOT-25	-----	400mW

### 下單產品資訊

WSH202-XPAN (TO-94)
WSH202-XPDN (SOT-25)
Halogen Free

★TO-94 — 1,000/bag , SOT-25 — 3,000/reel

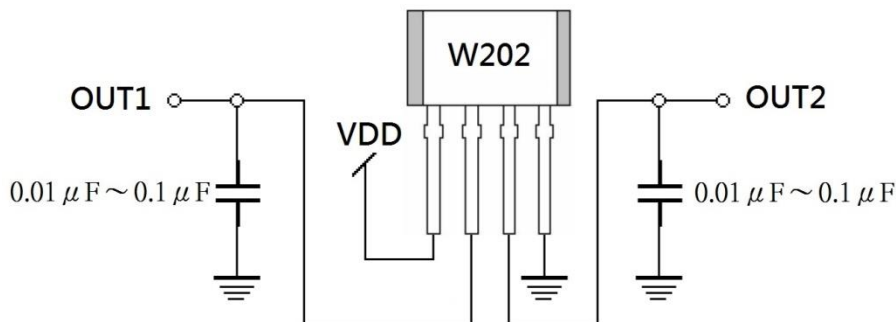
### 電氣特性：

(Ta=+25°C, Vdd=5.0V)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Units
工作電壓	Vcc	—	3.0	—	12	V
工作電流	Isupply	B=0 Gauss	—	3.25	5.0	mA
輸出電壓	Vout1/2	B=0 Gauss	2.25	2.5	2.75	V
輸出電壓差	$\Delta V_{out1-2}$	B=0 G, Vout1-Vout2	-0.4		+0.4	V
磁場靈敏度 (單端)	$\Delta V_{out1/2}$	B= 0 to $\pm 50$ G	8.0	10.0	12.0	mV/G
磁場靈敏度 (差動)	$\Delta V_{out12}$	B= 0 to $\pm 50$ G	16.0	20.0	24.0	mV/G
反應頻寬	BW	—	—	23	—	kHz
磁場量測範圍	MR	Vdd=5V	—	$\pm 150$	—	Gauss
溫度飄移	$\Delta V_{out0}$	B=0 Gauss	—	$\pm 1.5$	—	mV/°C
輸出雜訊	$V_{Np-p}$	—	—	16.6	—	mV

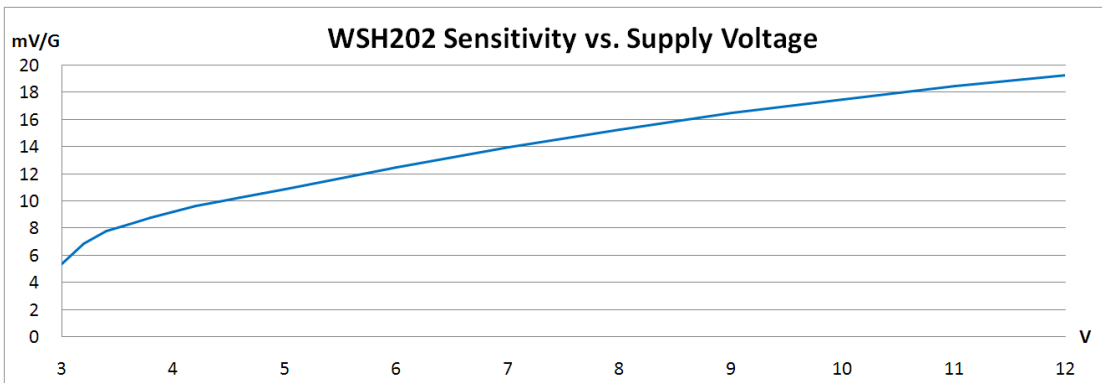
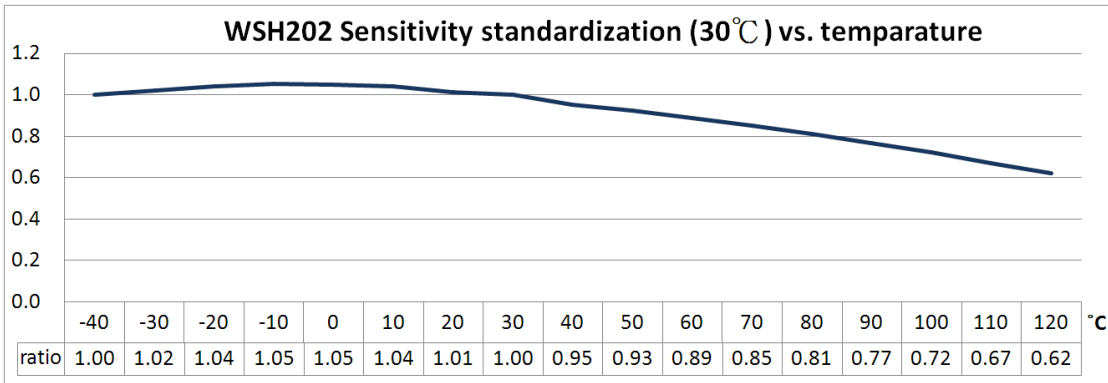
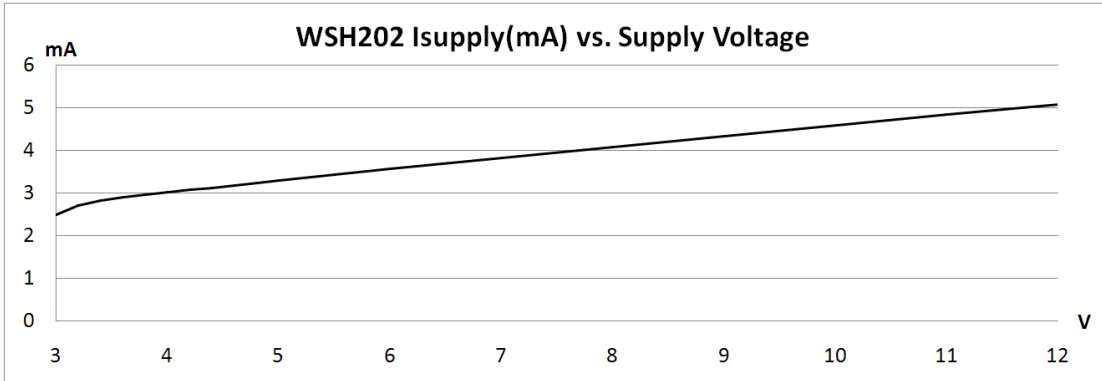
1. All output-voltage measurements are made with a voltmeter having an input impedance of at least 100k $\Omega$
2. 請勿加任何 電阻負載 於輸出，這會降低 IC 的表現

### 應用電路：

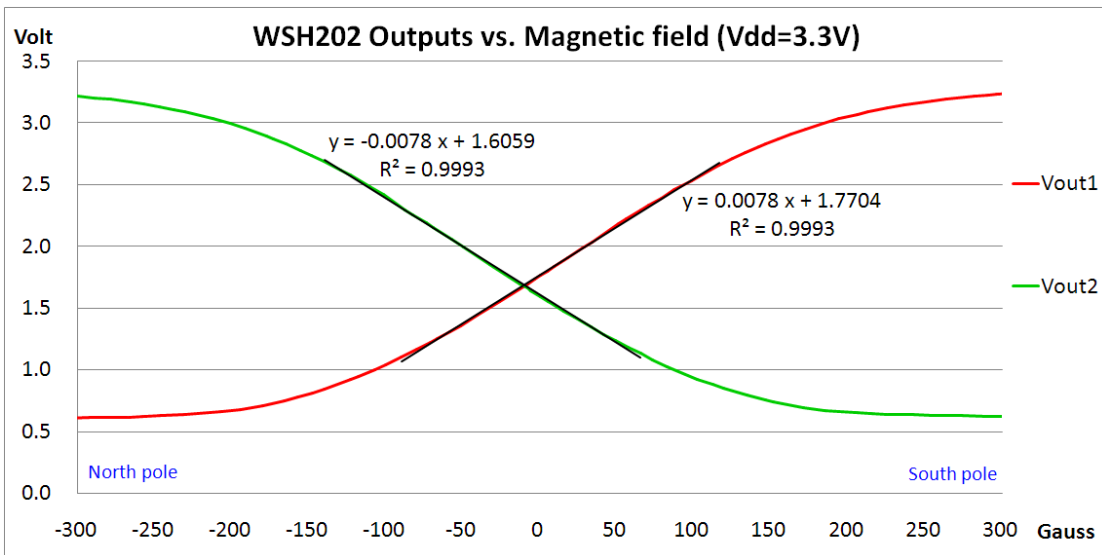
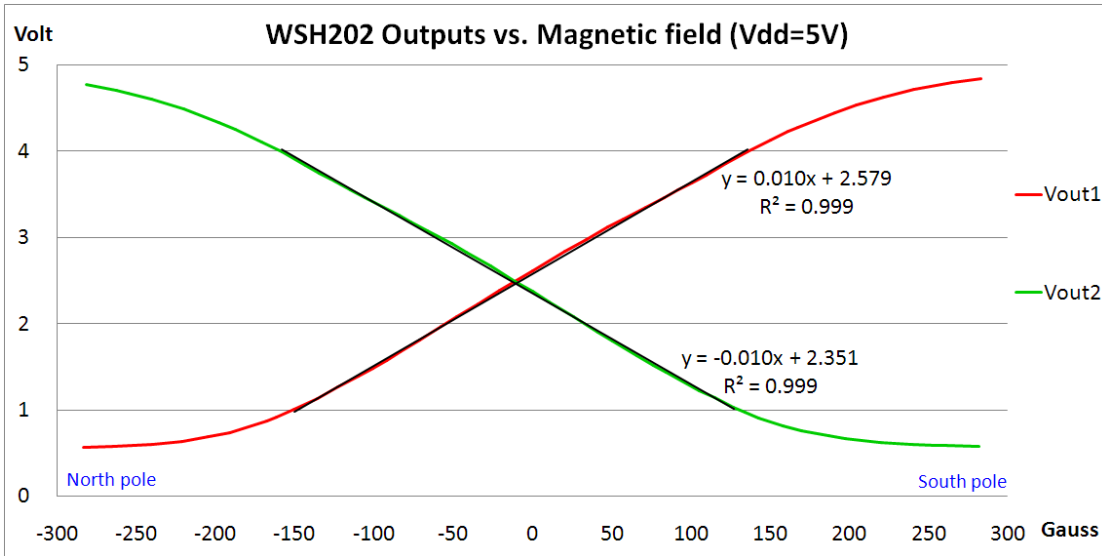


Winson reserves the right to make changes to improve reliability or manufacturability.

電性特性圖：

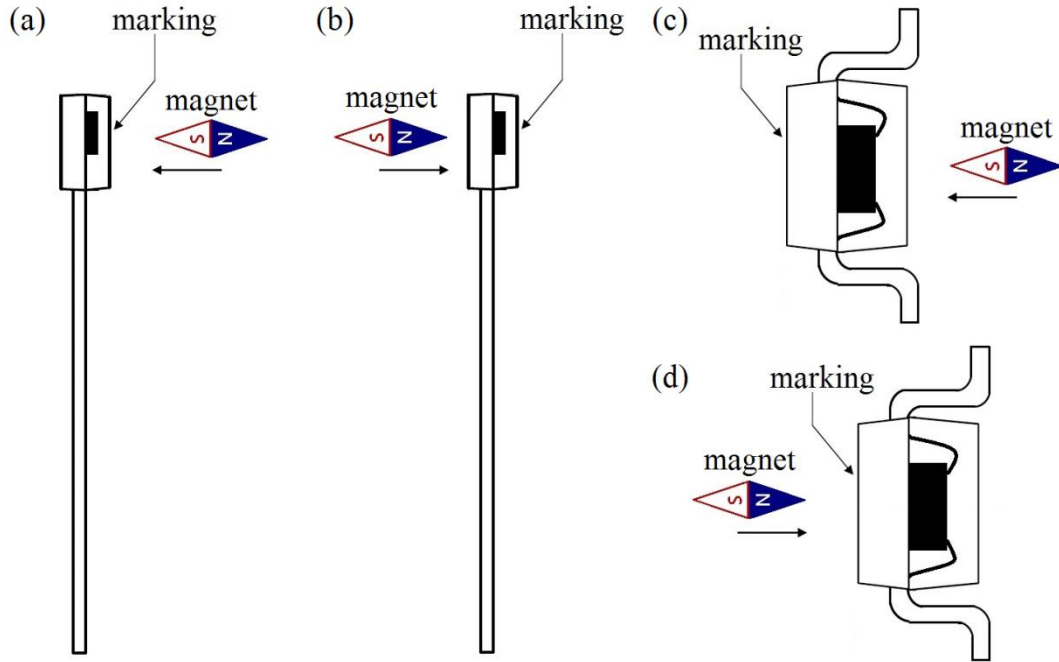


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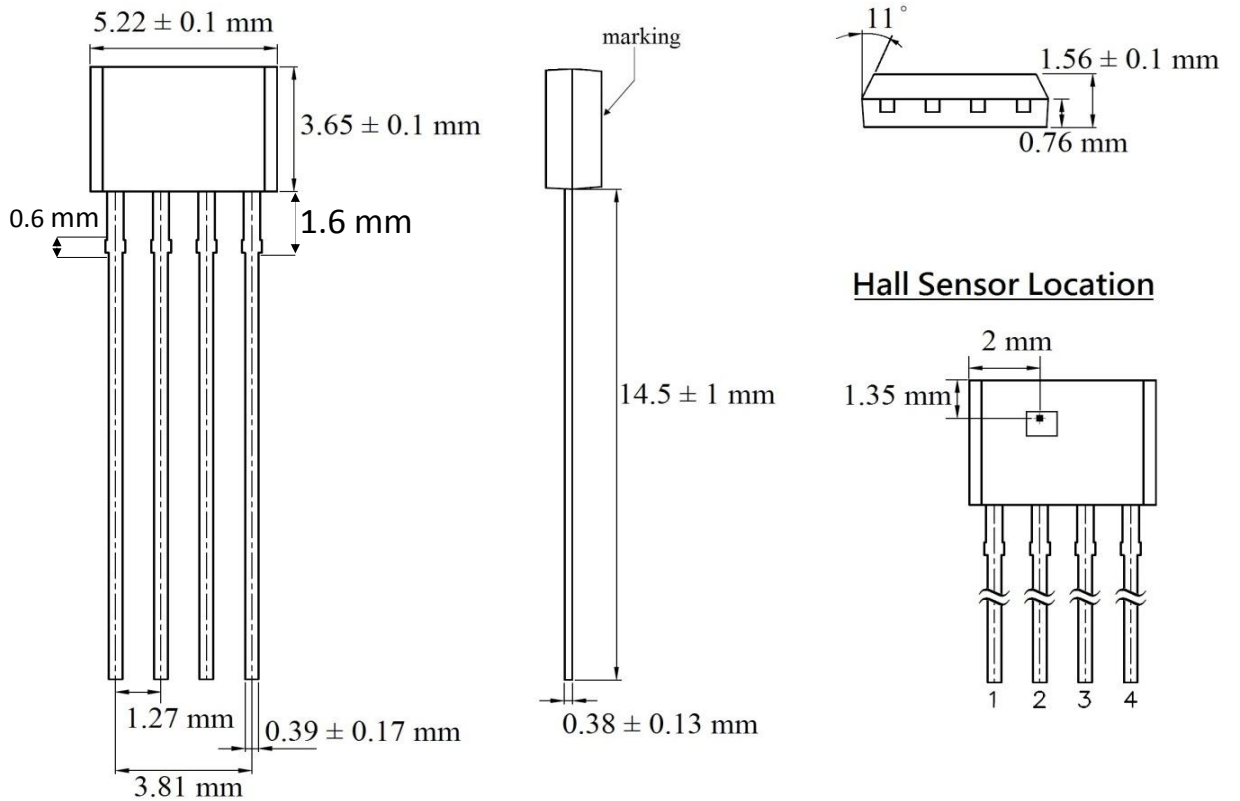
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IC 感應方向：



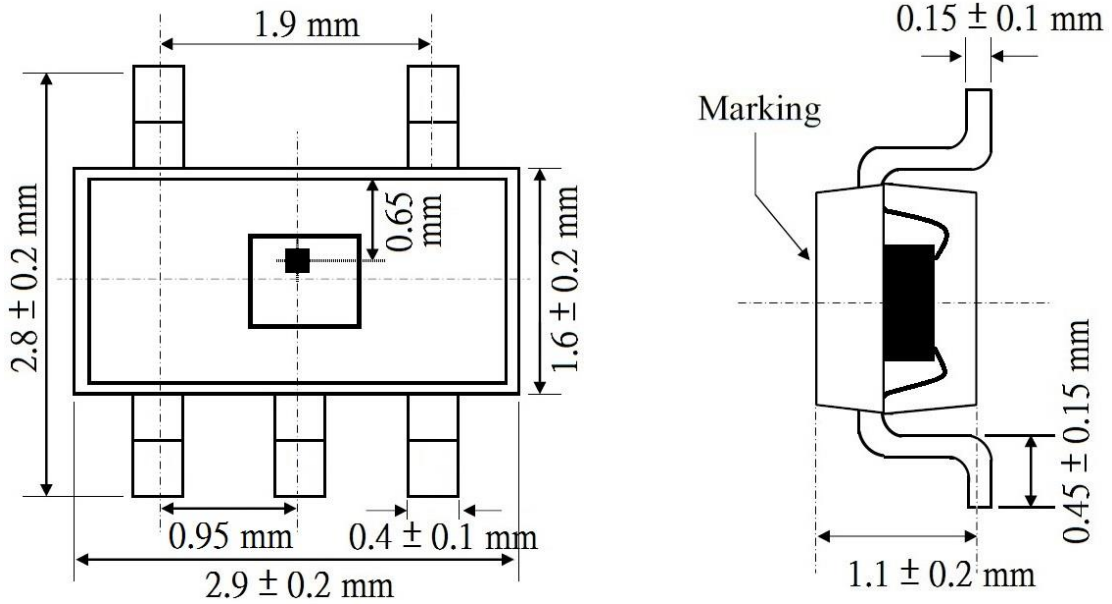
封裝資料：

《TO-94》



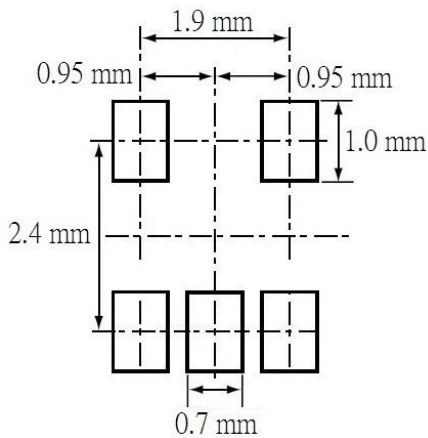
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《SOT-25》

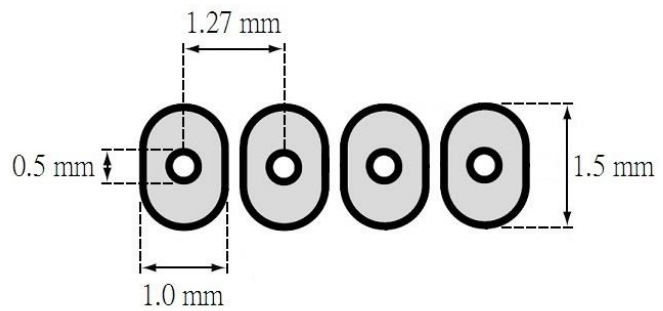


PCB Layout 參考圖：

SOT-25



TO-94



霍爾感應 IC 使用注意事項：請參考 Winson 網站->產品->使用手冊->霍爾 IC 使用說明及注意事項: <http://www.winson.com.tw/Product/82>

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