

磁簧管產品規格

REED SWITCH SPECIFICATION

型名 Type No. SWR-1555-1

勝特力材料 886-3-5753170
 勝特力電子(上海) 86-21-34970699
 勝特力電子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

概要：Feature

SWR-1555-1 是小型單刀雙投磁簧管，主要用於高速動作之低負載開閉場所。

The SWR-1555-1 is a small single pole double throw reed switch designed for high speed low level switching systems.

用途：Application

■汽車電子裝置	Automotive electronic devices
■轉速裝置	Rotation and speed Monitoring
■安全系統之門窗開關	Door and Window Contacts for Security System
■通訊設備	Communication equipment
■量測儀器	Measurement equipment

外型尺寸 Outer Dimension	玻璃管徑 Glass Diameter (Max.)	2.7	mm
	玻璃管長 Glass Length (Max.)	14.3	mm
	導線線徑 Lead Diameter (Nominal)	0.51	mm
	產品全長 Overall Length (Max.)	52.6	mm

電氣特性：Electrical Characteristics

接點形式 Contact form	SPDT Form C Centre gap
接點材質 Contact material	Ruthenium
開閉功率 Switching power (Max.)	3 VA
開閉電流 Switching Current (Max.)	0.25 Amp DC 0.25Amp AC
通電電流 Carry Current (Max.)	0.5 Amp DC 0.5Amp AC
開閉電壓 Switching Voltage (Max.)	100 VDC
接點耐壓 Breakdown voltage (Min.)	200 VDC
接觸阻抗 Contact resistance (Max.)	200 Milliohms
絕緣阻抗 Insulation resistance (Min.)	10 ⁹ Ohms
接點電容 Contact capacitance (Max.)	0.8 pF
動作時間 Operate time including bounce (typ.)	1.0 Milliseconds
復歸時間 Release time (typ.)	0.1 Milliseconds
感動值 Pull in Range	10 – 50 AT
開放值 Drop out	40 – 90%

Notes: (1) 在開閉功率(VA)項目中，高 AT 值產品會超過額定值(3VA)，低 AT 值者會低於額定值。

因此特定負載之壽命試驗必需再確認。

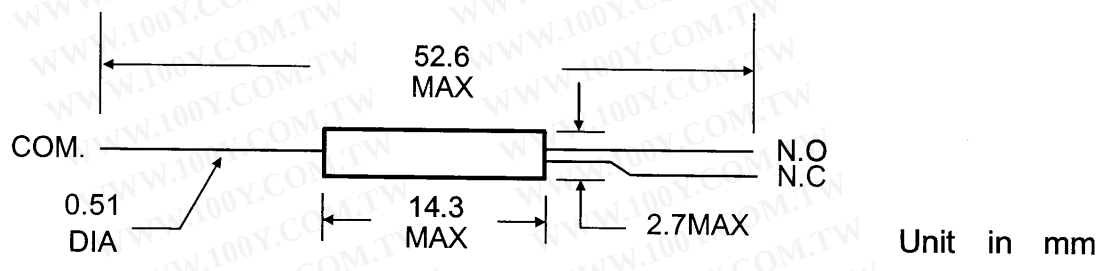
The specification for VA Rating may be exceeded for less sensitive(high AT) switches, and should be decreased for very Sensitive(low AT)Switches. Specific life testing for a particular load will be run upon request.

(2) 接點耐壓是以離子放射裝置測試接點間之漏電流低於 100 u A 而測得。

Breakdown voltage is measured in the presence of a radioactive ionizing source with leakage current limited to 100 microamperes.

SWR 1555-1 REED SWITCH

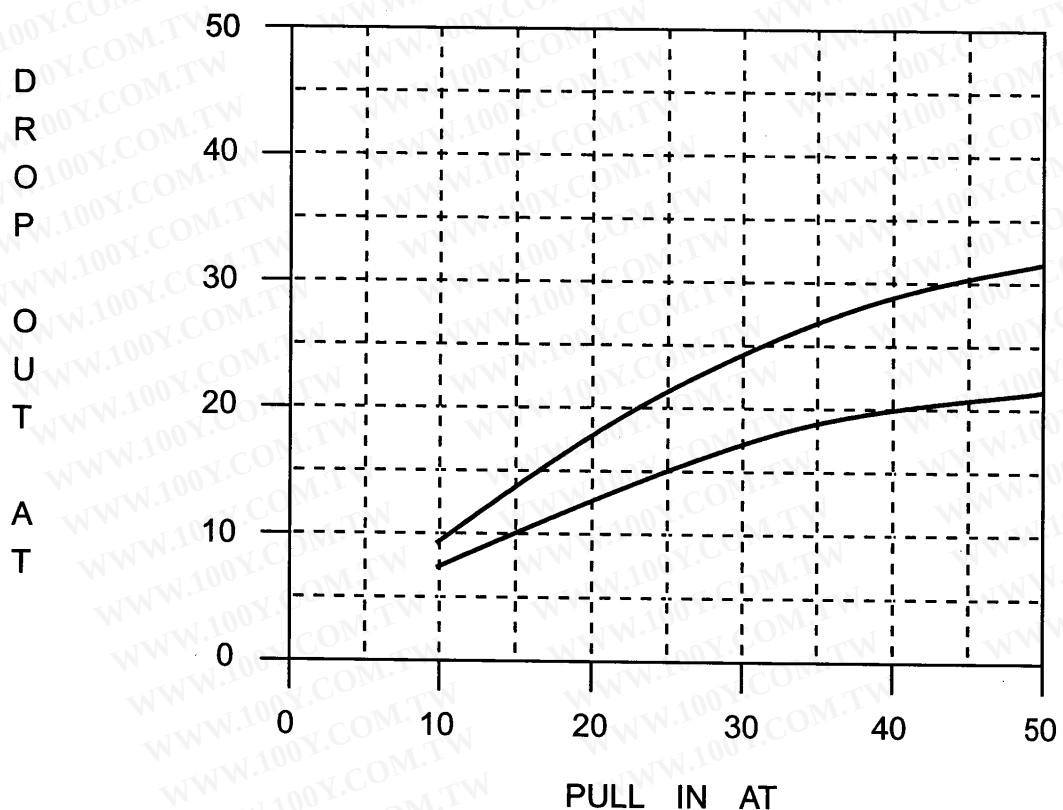
外型圖 : Dimension



物理特性 : Physical Characteristics

使用溫度範圍	Operating Temperature	-40°C to + 125°C
保存溫度範圍	Storage Temperature	-50°C to + 155°C
耐振動性	10 – 2000 Hz (G ' S MAX)	50g
耐衝擊性	11ms.½ Sine wave (G ' S MAX)	100g
階振頻率	(TYP.)	2.4 KHz
開閉頻率	(MAX.)	200 Hz

感動值與開放值之分布 : DROP OUT Vs PULL IN



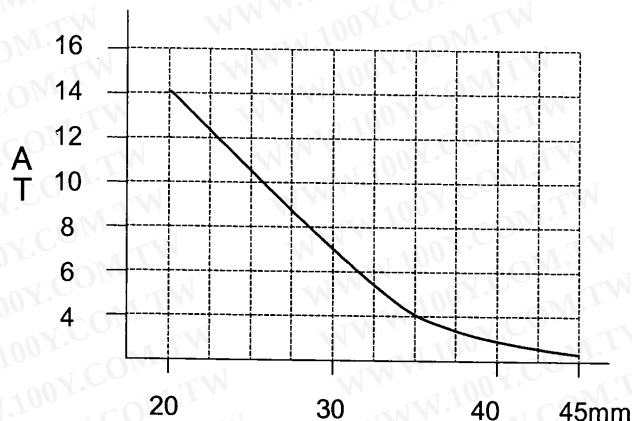
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導線長度與感動值之關係

Change in PULL IN Vs Lead Length

感動值加大: Increase in PULL IN

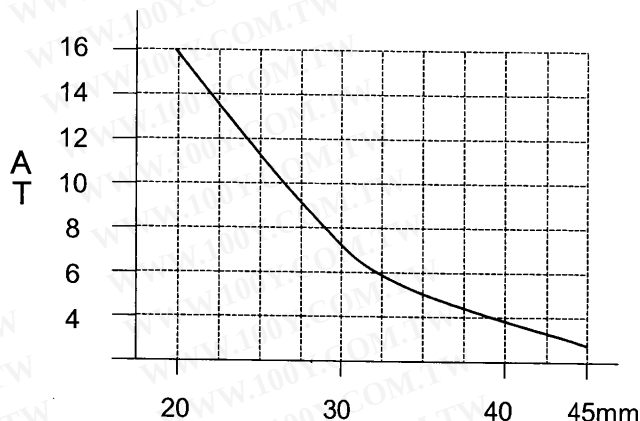


加工後全長度
 Length after cropping

導線長度與開放值之關係

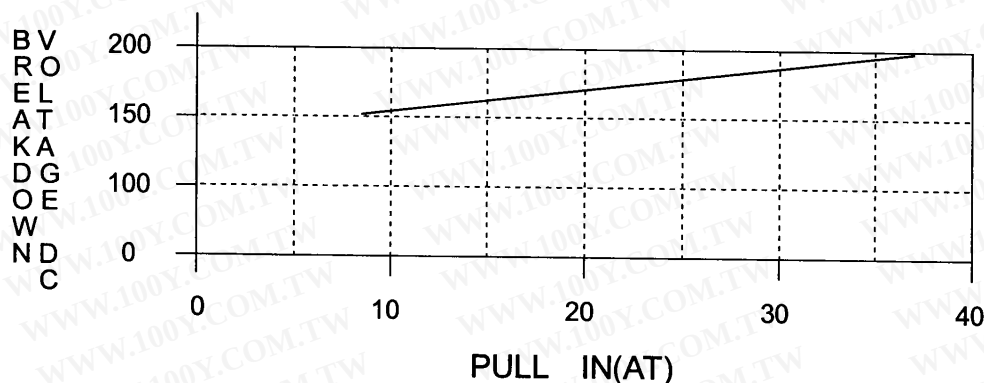
Change in DROP OUT Vs Lead Length

開放值加大: Increase in DROP OUT



加工後全長度
 Length after cropping

接點耐壓與感動值之關係: Breakdown Voltage Vs PULL IN(AT)



各項負載之壽命試驗: MINIMUM LIFE EXPECTANCY

負載 Load	5VDC 2mA	10VDC 0.5A	12VDC 5mA	24VDC 5mA	100VDC 10mA
壽命 Life	100×10^6	0.5×10^6	10×10^6	2×10^6	0.5×10^6

壽命之定義: END OF LIFE DEFINITION

- 接觸阻抗大於 1 ohm Contact Resistance above 1 ohm
- 接點無法開通 Failure to open (sticking)