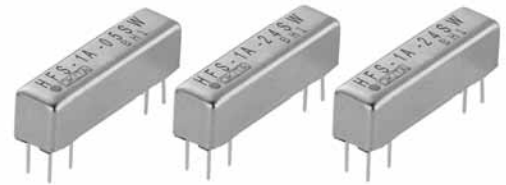


#### Part Number / Feature 品名 / 特長

• HFS - 1A - \*\* SW

Coil Voltage 線圈電壓

- Since it is 50 Ω impedance matching type, it is suitable for high frequency, high speed pulse measurement, etc... Furthermore, it is a miniature type and low stray capacitance, and electrostatic and magnetic shields are provided. A special socket is prepared (Refer to 140-143 page).
- 此為50Ω匹配電阻類型，適合於高頻、高速脈衝測量等。同時，因為超小體積、低浮游電容的關係，添加上靜電、磁氣屏蔽接地。另也備有專用插座。(請參照第140-143頁)



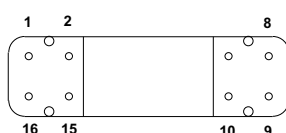
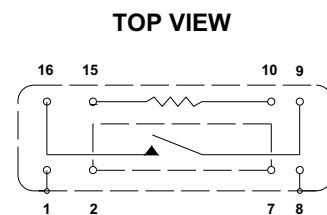
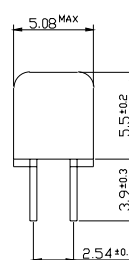
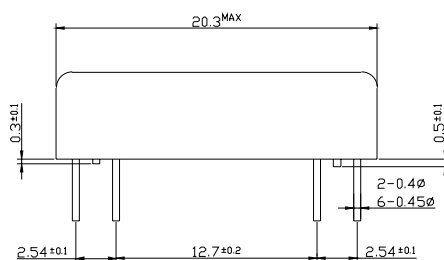
#### Performance 性能

Specifications 規格	Item 項目	Standard 規格
Contact Specifications 接點規格	Contact Form 接點型式	1a (make)
	Contact Rating 接點額定	10 W
	Max. Switching Voltage 最大切換電壓	DC.100V
	Max. Switching Current 最大切換電流	0.5A
	Max. Carry Current 最大通電電流	1.0A
	Contact Resistance 接點接觸阻抗	150m Ω MAX. (Initial)
Electrical Specifications 電氣規格	Breakdown Voltage 耐電壓	Between contacts DC.400V Contacts to coil DC.400V Contacts to shield DC.400V Coil to shield DC.400V
	Insulation Resistance 絕緣阻抗	Between all isolated pins 1X10 <sup>10</sup> Ω MIN. (DC.100V)
	Capacitance 靜電容量	Across Open contacts 0.1pF MAX. (Shield Guarding) Contact to shield 3 pF MAX.
	Thermal Electromotive Force 熱起電力	40μV TYP.
	Operate Time 動作時間	(incl. bounce) 0.5mS MAX. (at Nominal Voltage)
	Release Time 釋放時間	0.2mS MAX. (at Nominal Voltage)
Mechanical Specifications 機械規格	Vibration 耐振動	20G (0~2KHz, 1.5mm)
	Shock 耐衝擊	30G (11mS, 1/2 Sin Wave)
Environmental 環境	Operating Temperature 使用周圍溫度	-10°C ~ +60°C
Life Expectancy 壽命	Mechanical 機械的	1X10 <sup>8</sup> MIN. Operations
	Electrical 電氣的	DC.10mV-10mA 1X10 <sup>8</sup> MIN. Operations (R.L.) Refer 13 Page (I) for Life data.

#### Coil Specifications 線圈規格

Part Number 品名	Nominal Voltage DC ± 10%[V] 額定電壓	Coil Resistance ± 10%[Ω] at 20°C 線圈阻抗	Nominal Current [mA] 額定電流	Must-Operate Voltage MAX.[V] at 20°C 啟動電壓
HFS-1A-24 (SW)	24	1200	20.0	18.0
HFS-1A-12 (SW)	12	600	20.0	9.0
HFS-1A-05 (SW)	5	160	31.3	3.8

#### Dimensions / Terminal Identification (Unit:mm) 外型尺寸圖 / 結線圖 (單位:毫米)



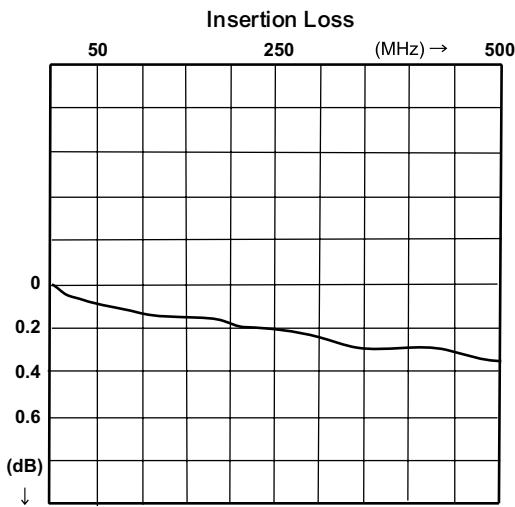
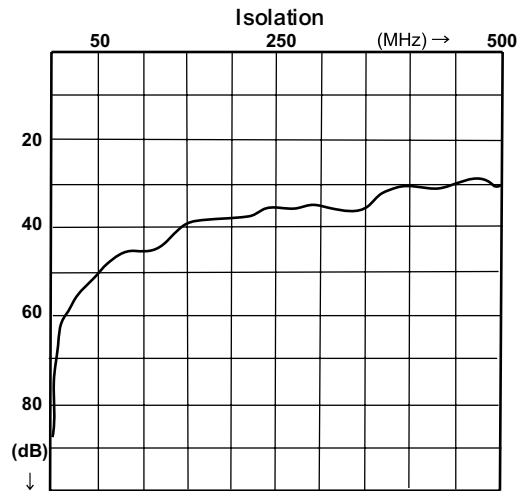
BOTTOM VIEW

Weight about 1.5gr

**大豪电子**  
 电话: 0755-83233025  
<http://www.szdahao.com>  
<http://www.very-tec.com>

**High Frequency Characteristic (Input and Output Impedance 50 Ω)**  
**高頻特性 (輸出入電阻 50 Ω)**

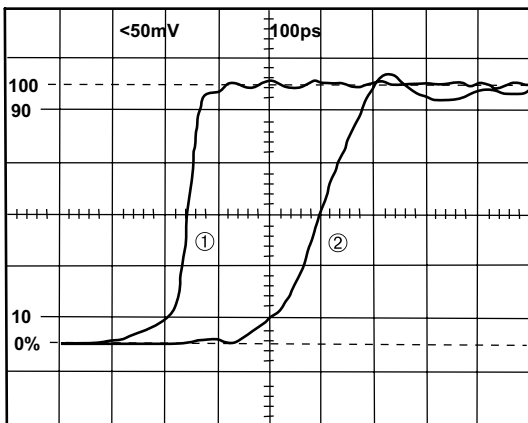
Frequency 諧振頻率	Item 項目		
	Return Loss 反射損失	Isolation 隔離絕緣	Insertion Loss 插入損失
50MHz	30dB MIN.	48dB MIN.	0.14dB MAX.
100MHz	25dB MIN.	40dB MIN.	0.20dB MAX.
500MHz	19dB MIN.	25dB MIN.	0.50dB MAX.



- ① 入射波  
Incident wave
- ② 透過波  
Penetrating wave
- 固有上升時間 Intrinsic rise time  
Tr ≈ 160ps
- 截止頻率 Cut off frequency  
fc ≈ 2.19GHz
- ③ 繼電器無安裝  
Relay uninstalled
- 繼電器安裝接點狀態 OFF  
Relay uninstalled, OFF state
- ⑤ 繼電器安裝接點狀態 ON  
Relay installed, ON state

**Pulse Transmission Characteristic Data ( refer page 12 for measuring method)**  
**脈衝傳輸特性數據 ( 測試方法請參照第 12 頁 )**

上升時間 Rise Time



反射特性 Reflective characteristic

