SIP1A05 REED RELAY

Parameter	Max	Unit
Switching Voltage	100	Volts
Switching current	0.5	Amps
Carry current	1	Amps
Switching frequency	500	Hz
Contact resistance	150	mΩ

(See detailed specifications for more information.)

SPECIFICATIONS

Dry Reed Relay Specifications

All parameters at 20℃ unless otherwise stated.

Operate voltage,release voltage,and coil resistance will vary by approximately 0.4%/℃ as ambient temperature varies.

PARAMETER	CONDITIONS	MIN	Nom	MAX	UNITS
Contact Ratings					
Switching Voltage	Max DC/PeakAC Resistive	-	-	150	Volts
Switching Current	Max DC/PeakAC Resistive	-	-	0.5	Amps
Carry Current	Max DC/PeakAC Resistive	-	-	1	Amps
Contact Rating	Max DC/PeakAC Resistive	-	-	10	Watts
Life Expectancy	Signal Level 12V 10mA Rated Loads	-	200	-	x10^6Ops
Static Contact Resistance	50mV,10mA	-	120	150	mΩ
		-		-	-
Relay Specifications					
Insulation Resistance	Between all isolated pins At 100V,20℃,40%RH	10^{10}		-	Ω
Capacitance	Across Open Contacts	-	-	1	pF
Open Contact to Coil		-	-	2	pF
Dielectric Strength	Between Contacts	250	-	-	VDC/Peak AC
	Contacts to Coil	1400		-	VDC/Peak AC
Operate Time Including bounce	At Nominal Coil Voltage 10Hz Square Wave	-	0.3	0.5	ms
Release Time		-	0.3	0.5	-
Environmental Ratings					
Storage Temperature	T	-40	-	+105	℃
Operating Temperature	T	-40	-	+85	℃
Soldering Temperature	Applied to pins,10 sec.max.	-	-	+260	℃
Vibration Resistance (Survival)	20g,10Hz-2000Hz	-	-	20	Gs
Shock Resistance (Survival)	100g,11+/-ms,1/2 Sine Wave	-	-	-	-
Weight		-	1.6	-	grams

SIP1A05 REED RELAY

COIL SPECIFICATIONS

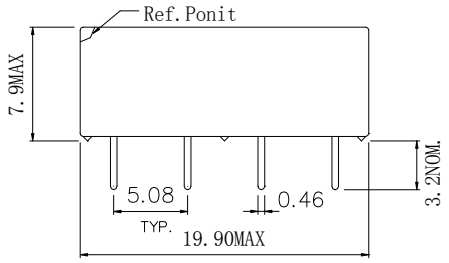
Nominal Voltage 额定电压 (VDC)	Coil Resistance 线圈电阻 (Ω ±10%)	Nominal Current 耗电流 (mA)	Pick-Up Voltage 吸合电压 (VDC)	Drop-Out Voltage 释放电压 (VDC)	Maximum Allowable Voltage 最大过载电压 (VDC)	Power Consumption 线圈功率 (mW)
5	500	10	3.75	0.6	15	50
12	1000	12	9	1.44	30	144
24	2000		18	2.88	40	288

MECHANICAL DIMENSIONS

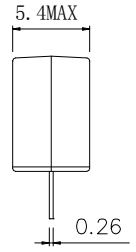
Mechanical Dimensions:

All dimensions are measured in millimeters

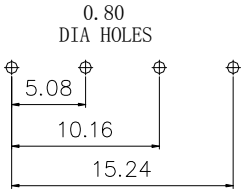
SIP Form A



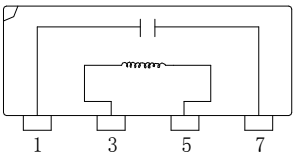
(一) Front View



(二) Side View



(三) PCB Hole Layout



(四) CIRCUIT DIAGRAM

*Remark:

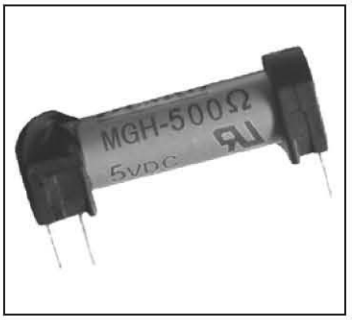
(1) All dimensions are measurde in millimeters

APPROVED: CHECKED: PREPARED:

MGH Reed Relay

■ FEATURES 特点

- Small size，light weight and low cost
  体积小，重量轻，成本低
- Open Frame Type 无罩壳型
- Mainly use in Cordless Phone, IP Router and Security Alarm System etc···
  应用于无绳电话，IP拔号器，家用电器，防盗报警系统等



■ COIL RATING 线圈参数 (at 20℃)

Nominal Voltage 额定电压 (VDC)	Coil Resistance 线圈电阻 (Ω ±10%)	Nominal Current 耗电流 (mA)	Pick-Up Voltage 吸合电压 (VDC)	Drop-Out Voltage 释放电压 (VDC)	Contact Rating 触点负载 (w)	Maximum Allowable Voltage 最大电压 (VDC)	Power Consumption 线圈功率 (mW)
3	63	47.6	2.1	0.3	10	160%(Max)	Approx 100-280
5	250	20	3.5	0.5			
	500	10					
8	700	11.4	5.6	0.8			
9		12.85	6.3	0.9			
12	500	24	8.4	1.2			
	1050	11.4					
24	2080	11.5	16.8	2.4			

■ ORDERING INFORMATION 订货编号

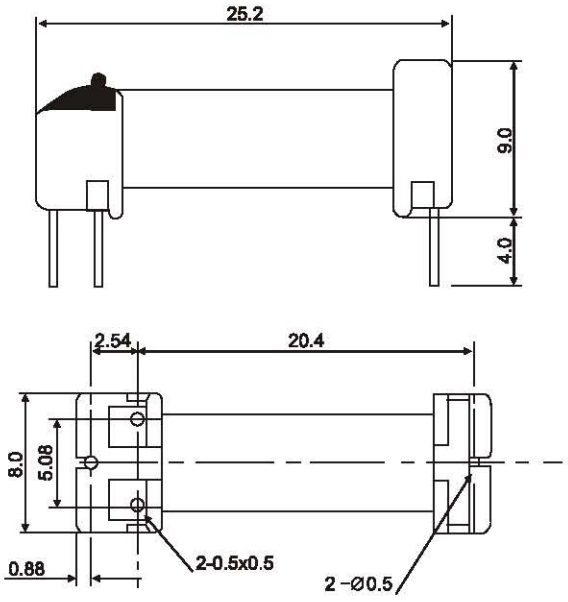
MGH-500Ω-5VDC

Coil Resistance 线圈电阻	Coil Voltage 线圈电压
See Coil Rating 参见"线圈参数"表	See Coil Rating 参见"线圈参数"表

■ SPECIFICATIONS 规格表

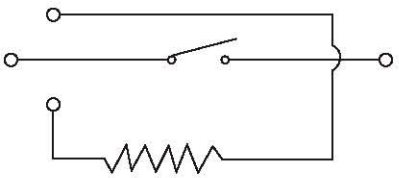
Model No. 型号		MGH
Contact Arrangement 触点形式		1 Form A
Contact Resistance 触点电阻		Max.150mΩ (initial)
Contact Rating (at Resistive Load) 触点负载 (阻性负载)	Rated Load 触点容量	0.5A 24VDC, 0.1A 100VAC
	Max.Switching Current 最大开关电流	0.5A
	Max.Switching Voltage 最大开关电压	120VAC,60VDC
	Max.Switching Power 最大开关功率	10W (DC) / 10VA (AC)
	Max.Carrying Current 最大过载电流	1A
	Min.Switching Current 最小开关电流	1mA at 1 VDC
Operate Time 动作时间		Max.1m Sec.
Release Time 释放时间		Max.0.5m Sec.
Dielectric Strength 介质耐压 Between Coil & Contact 线圈与触点之间 Between Contacts 触点组之间		 3000VDC (1 second) 200VDC (1 second)
Surge Strength 浪涌电压		3000V
Insulation Resistance 绝缘电阻		Min.100MΩ at 500VDC, 1000MΩ at 100VDC
Ambient Temperature 环境温度		-30 ℃ ~+70 ℃
Vibration Resistance 振动		1.5mm D.A.10-55HZ
Shock Resistance 冲击		Endurance 100G
Mechanical Life 机械寿命		1x10^6 operations at no load
Electrical Life 电气寿命		1x10^5 operations at 0.5A 24VDC (resistive)
Weight 重量		Approx. 4.5g

DIMENSIONS 外形尺寸 (mm)

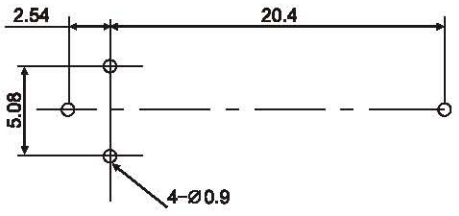


General Tolerance 公差 ±0.3

WIRING DIAGRAM 接线图
(Bottom View 底视图)



PC BOARD PATTERN 脚位图 (mm)
(Bottom View 底视图)



General Tolerance 公差 ±0.1