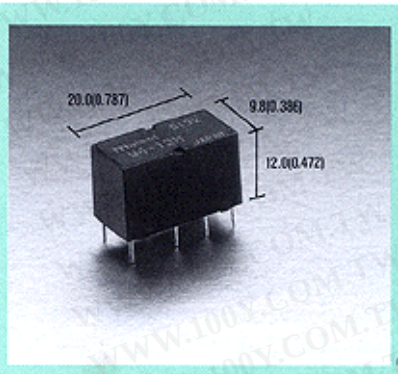
胜特力材料 886-3-5753170
胜特力电子(上海) 86-21-54151736
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw



mm(inch)

FEATURES

- Ultra high Sensitivity
- Conforms to FCC Part 68 1500V Surge and Dielectric Strength 1000V AC
- DIL Pitch Terminals
- Fully sealed (immersion clearable)
- UL, CSA recognized
- High Reliability bifurcated Contact

SPECIFICATIONS

☐ Contacts

Arrangement		2 Form C	
Type		Bifurcated Crossbar	
Material	Movable Contact Stationary Contact	Gold clad Silver-Palladium Alloy Gold clad Silver-Palladium Alloy	Gold clad Silver Alloy Gold clad Silver Alloy
Ratings (Resistive Load)		1A 24V DC / 0.5A 120V AC	
Max. Ratings (Resistive Load) Max. Switching Power Max. Switching Voltage Max. Switching Current		60W DC / 125VA AC 220V DC / 250V AC 2A DC/AC	
Min. Switching Load		0.01 mA 10mV DC (Reference Value)	
Expected Life (Min. Operations) Mechanical Electrical (Resistive Load)		100 million 0.5 million at 1A 24V DC 0.2 million at 0.5A 120V AC	
Contact Resistance		50 mΩ Max. at initial	

☐ Characteristics at 20˚C (68˚F)

Operate Time (at nominal Voltage) Release Time (at nominal Voltage)	Approx. 4.5 ms Approx. 1.5 ms
Electrostatic Capacitance Between open Contacts Between Coil & Contacts Between Contact Poles	 Approx. 0.7 pF Approx. 1.0 pF Approx. 0.9 pF
Dielectric Withstand Voltage Between open Contacts Between Coil & Contacts Between Contact Poles	 1000V AC for 1 minute 1000V AC for 1 minute 1000V AC for 1 minute
Surge Withstand Voltage (FCC) Between open Contacts Between Coil & Contacts Between Contact Poles	 1500V 1500V 1500V
Insulation Resistance	1000 MΩ min. at 500V DC
Vibration Resistance Functional Destructive	 1.5 mm D.A. 10 to 55 Hz 5 mm D.A. 10 to 55 Hz
Shock Resistance Functional Destructive	 10 G (11 ms) 100 G (6 ms)
Temperature Range	−40 to +90˚C (−40 to +194˚F) to +80˚C for 300 mW Coil
Weight	Approx. 4.5 g

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TYPICAL APPLICATIONS

- Telecommunication Equipment
- Office Equipment
- Security Alarm Systems
- Measuring instruments
- Medical Monitoring Equipment
- Audio Visual Equipment
- Flight Simulator
- Sensor Control

ORDERING INFORMATION

M4 – 12 H A W

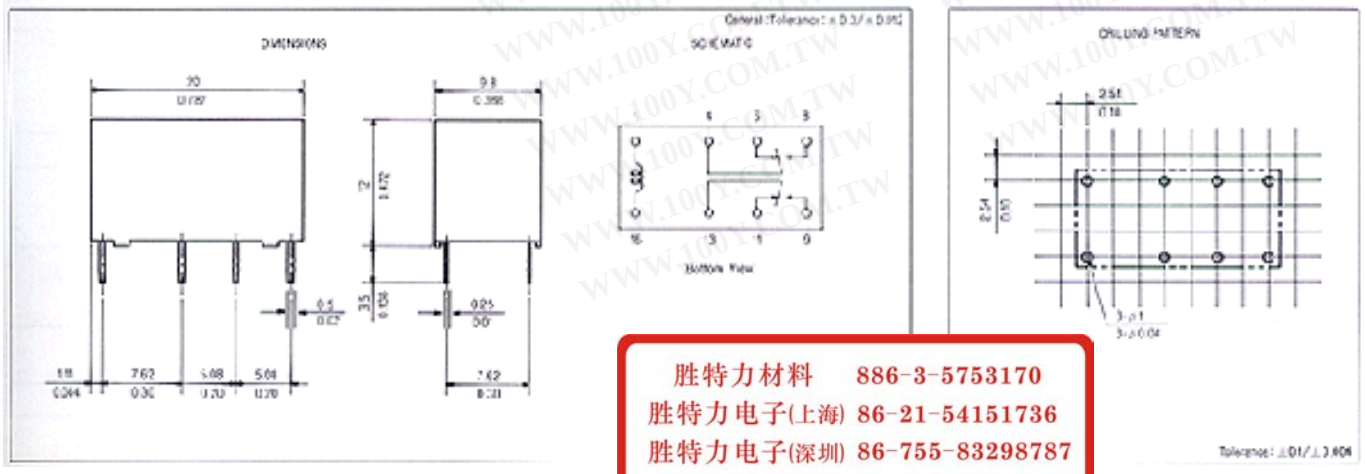
- TYPE
- NOMINAL COIL VOLTAGE
  DC 3, 5, 6, 9, 12, 24 or 48V
- SEALING
  H: Sealed Type
- NOMINAL COIL POWER
  Nil: Standard Coil Power (150 mW)
  A: Special Coil Power (200 mW)
  M: Special Coil Power (450 mW)
- CONTACT MATERIAL
  Nil : Au clad AgPd Alloy
  W : Au clad Ag Alloy

TYPES AND COIL DATA at 20°C (68°F)

Relay Code	Nominal Voltage V DC	Coil Resistance Ω ± 10%	Pick-Up Voltage V DC	Drop-Out Voltage V DC	Nominal Power Consumption mW DC	Maximum Continuous Voltage V DC
M4-3H	3	60	2.1	0.15	150	7.5
M4-5H	5	167	3.5	0.25	150	12.5
M4-6H	6	240	4.2	0.3	150	15.0
M4-9H	9	540	6.3	0.45	150	22.5
M4-12H	12	960	8.4	0.6	150	30.0
M4-18H	18	1620	12.6	0.9	200	40.0
M4-24H	24	2880	16.8	1.2	200	52.9
M4-48H	48	7680	33.6	2.4	300	84.9
M4-3HA	3	45	2.1	0.3	200	6.5
M4-5HA	5	125	3.5	0.5	200	10.8
M4-6HA	6	180	4.2	0.6	200	13.0
M4-9HA	9	405	6.3	0.9	200	19.5
M4-12HA	12	720	8.4	1.2	200	26.0
M4-24HA	24	2880	16.8	2.4	200	52.9
M4-48HA	48	11520	33.6	4.8	200	103.9
M4-5HM	5	56	3.3	0.5	450	7.7
M4-6HM	6	80	4.0	0.6	450	9.2
M4-9HM	9	180	6.0	0.9	450	13.7
M4-12HM	12	320	8.0	1.2	450	18.3
M4-18HM	18	720	12.0	1.8	450	27.5
M4-24HM	24	1280	15.9	2.4	450	36.7
M4-48HM	48	5000	33.0	4.8	450	72.5

DIMENSIONS and SCHEMATIC

mm/inch



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