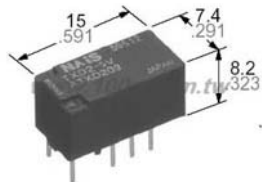




Relays & Solenoids

NAIS PCB Relays

Detailed product specifications are available on: us.100y.com.tw



TYPICAL APPLICATIONS

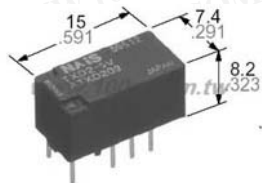
- Communications (XDSL, Transmission)
- Measurement
- Security
- Home appliances, and audio/visual equipment
- Automotive equipment
- Medical equipment

Characteristics

Initial insulation resistance* ¹	Min. 1,000MΩ (at 500V DC)
Initial breakdown voltage* ²	Between open contacts: 750 Vrms for 1min. Between contact sets: 1,000 Vrms for 1min. Between contacts and coil: 1,500 Vrms for 1min.
Initial surge voltage	Between open contacts (10×160 μs): 1,500 V (FCC Part 68) Between contacts and coil (2×10 μs): 2,500 V (Telcordia)
Operate time [Set time]* ³ (at 20°C)	Max. 4 ms (Approx. 2 ms) [Max. 4 ms (Approx. 2 ms)]
Release time (without diode) [Reset time]* ³ (at 20°C)	Max. 4 ms (Approx. 1 ms) [Max. 4 ms (Approx. 2 ms)]
Temperature rise* ⁴ (at 20°C)	Max. 50°C

Shock resistance	Functional* ⁵	Min. 750 m/s ² {75G}
	Destructive* ⁶	Min. 1,000 m/s ² {100G}
Vibration resistance	Functional* ⁷	10 to 55 Hz at double amplitude of 3.3 mm
	Destructive	10 to 55 Hz at double amplitude of 5 mm
Conditions for operation, transport and storage* ⁸ (Not freezing and condensing at low temperature)	Ambient temperature* ²	-40°C to 85°C -40°F to 185°F
	Humidity	5 to 85% R.H.
Unit weight	Approx. 1 g .035 oz	

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
46911	AGN200A03Z	NAIS	ULTRA-SMALL PACKAGE SLIM POLARIZED RELAY	3V	GN/AGN



FEATURES

- **Compact flat body saves space**
With a small footprint of 10.6 mm (L) × 7.2 mm (W) .417 inch (L) × .283 inch (W) for space savings, it also has a very short height of 5.2 mm .205 inch. (Standard PC board type.)
- **Outstanding surge resistance.**
Surge withstand between open contacts: 1,500 V 10×160 μs (FCC part 68) Surge withstand between contacts and coil: 2,500 V 2×10 μs (Telcordia)

• The use of twin crossbar contacts ensures high contact reliability.

AgPd contact is used because of its good sulfide resistance. Adopting low-gas molding material. Coil assembly molding technology which avoids generating volatile gas from coil.

• Increased packaging density Due to highly efficient magnetic circuit design,

leakage flux is reduced and changes in electrical characteristics from components being mounted close-together are minimized. This all means a packaging density higher than ever before.

SPECIFICATIONS

Arrangement	2 Form C		
Initial contact resistance, max. (By voltage drop 6 V DC 1A)	100 mΩ		
Contact material	Stationary: AgPd+Au clad Movable: AgPd		
Rating	Nominal switching capacity (resistive load)	1 A 30 V DC 0.3 A 125 V AC	
	Max. switching power (resistive load)	30 W, 37.5 VA	
	Max. switching voltage	110 V DC, 125 V AC	
	Max. switching current	1 A	
	Min. switching capacity (Reference value)* ¹	10 μA 10 mV DC	
Nominal operating power	Single side stable	140mW (1.5 to 12 V DC) 230mW (24 V DC)	
	1 coil latching	100mW (1.5 to 12 V DC) 120mW (24 V DC)	
Expected life (min. Operations)	Mechanical (at 180 cpm)	5 × 10 ⁷	
	Electrical (at 20 cpm)	1 A 30 V DC resistive	10 ⁵
		0.3 A 125 V AC resistive	10 ⁵

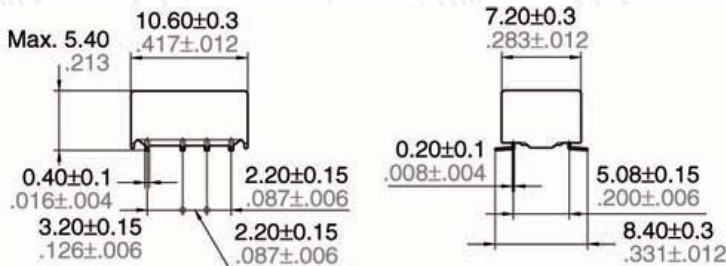
Characteristics

Initial insulation resistance* ¹	Min. 1,000MΩ (at 500V DC)	
Initial breakdown voltage* ²	Between open contacts: 750 Vrms for 1min. Between contact sets: 1,000 Vrms for 1min. Between contacts and coil: 1,500 Vrms for 1min.	
Initial surge voltage	Between open contacts (10×160 μs): 1,500 V (FCC Part 68) Between contacts and coil (2×10 μs): 2,500 V (Telcordia)	
Operate time [Set time]* ³ (at 20°C)	Max. 4 ms (Approx. 2 ms) [Max. 4 ms (Approx. 2 ms)]	
Release time (without diode) [Reset time]* ³ (at 20°C)	Max. 4 ms (Approx. 1 ms) [Max. 4 ms (Approx. 2 ms)]	
Temperature rise* ⁴ (at 20°C)	Max. 50°C	
Shock resistance	Functional* ⁵	Min. 750 m/s ² {75G}
	Destructive* ⁶	Min. 1,000 m/s ² {100G}
Vibration resistance	Functional* ⁷	10 to 55 Hz at double amplitude of 3.3 mm
	Destructive	10 to 55 Hz at double amplitude of 5 mm
Unit weight	Approx. 1 g .035 oz	

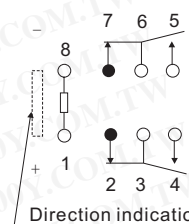
• Nominal operating power: 140 mW

• Outstanding vibration and shock resistance.

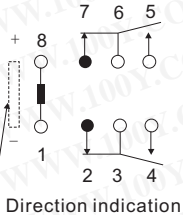
Functional shock resistance: 750 m/s² {75G}
Destructive shock resistance: 1,000 m/s² {100G}
Functional vibration resistance: 10 to 55 Hz (at double amplitude of 3.3 mm .130 inch)
Destructive vibration resistance: 10 to 55 Hz (at double amplitude of 5 mm .197 inch)



Single side stable (Deenergized condition)



1 coil latching (Reset condition)



TYPICAL APPLICATIONS

- Communications (XDSL, Transmission)
- Measurement
- Security
- Home appliances, and audio/visual equipment
- Automotive equipment
- Medical equipment

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
46913	AGQ200A03Z	NAIS	ULTRA-SMALL PACKAGE FLAT POLARIZED RELAY	3V	GQ/AGQ



T E L : Taiwan : 886-3-5753170
F A X : Taiwan : 886-3-5753172
E-mail : Taiwan : us_sale@100y.com.tw

Shenzhen : 86-755-83298787
Shenzhen : 86-755-83640655
Shenzhen : 100y@163.com

Shanghai : 86-21-54151736
Shanghai : 86-21-64605107
Shanghai : 100y-1@163.com