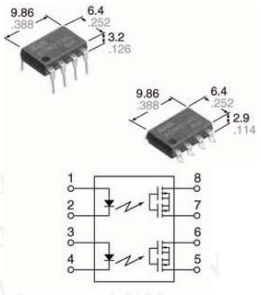
NAIS_PCB Relays

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



FEATURES

1. Current Limit Function
To control an over current from flowing, the current limit function has been realized. It keeps an output current at a constant value when the current reaches a specified current limit value.

2. Enhancing the capability of surge resistance between output terminals
The current limit function controls the ON time surge current to enhance the capability of surge resistance between output terminals.

3. Reinforced insulation 5,000 V type
More than 0.4 mm internal insulation distance between inputs and outputs. Con-forms to EN41003, EN60950 (reinforced insulation).

4. Compact 8-pin DIP size
The device comes in a compact (W)6.4 × (L)9.86 × (H) 3.2mm (W). 252× (L).388 × (H).126inch, 8-pin DIP size (through hole terminal type)

5. Applicable for 2 Form A use as well as two independent 1 Form A use.

6. Controls low-level analog signals

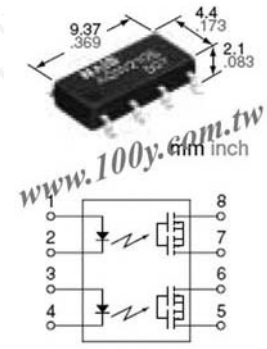
7. High sensitivity, high speed response.
Can control a maximum 0.12 A load current with a 5 mA input current. Fast operation speed of 0.5ms (typ.)

8. Low-level off state leakage current

TYPICAL APPLICATIONS

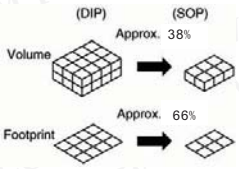
- Telephone equipment
- Modem

Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Qutline L*W*H	Type
47261	AQW210HL	NAIS	NAIS_GU PhotoMOS Relay	(2 Form A)	350V /120mA	350V	UL(E43149),C-UL,BSI	(W)6.4 ×(L)9.86 × (H) 3.2mm	AQW210HL



FEATURES

1. 2 channels in super miniature de-sign
The device comes in a super-miniature SO package measuring (W) 4.4 × (L) 9.37 × (H) 2.1 mm (W) .173 × (L) .369 × (H) .083 inch —approx. 38% of the volume and 66% of the footprint size of DIP type Pho-toMOS Relays.



2. Tape and reel
The device comes standard in a tape and reel (1,000 pcs./reel) to facilitate automat-ic insertion machines.

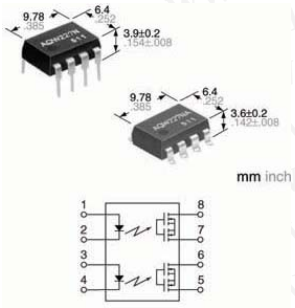
3. Controls low-level analog signals
PhotoMOS relays feature extremely low closed-circuit offset voltage to enable control of low-level analog signals without distortion.

4. Low-level off state leakage current
In contrast to the SSR with an off state leakage current of several milliamperes, the PhotoMOS relay features a very small off state leakage current of typ. 100 pA even with the rated load voltage of 400 V (AQW214S)

TYPICAL APPLICATIONS

- Telephones
- Measuring instruments
- Computer
- Industrial robots
- High-speed inspection machines.

Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Qutline L*W*H	Type
47208	AQW210S	NAIS	SOP (2 Form A) 8-pin type.Controls load voltage 350V, 400V.	2 Form A	350V / 100mA	350V	UL(E43149),C-UL,BSI	(W) 4.4×(L) 9.37×(H) 2.1 mm	AQW210S
47210	AQW214S	NAIS	SOP (2 Form A) 8-pin type. Controls load voltage Controls load voltage	2 Form A	400V / 80mA	400V	UL(E43149),C-UL,BSI	(W) 4.4×(L) 9.37×(H) 2.1 mm	AQW214S



FEATURES

1. PhotoMOS relay 2-channels (Form A) type with high response speed, low leakage current and low On resistance.

2. Applicable for 2 Form A use as well as two independent 1 Form A use

3. Compact 8-pin DIP size
The device comes in a compact (W) 6.4×(L) 9.78×(H) 3.9 mm (W) .252×(L) . 385×(H) .154 inch , 8-pin DIP size (through hole terminal type).

4. Low capacitance between output terminals ensures high response speed:
The capacitance between output terminals is small, typically 10 pF. This enables for a fast operation speed of 200 µs.

5. High sensitivity and low On resistance:
Maximum 0.07 A of load current can be controlled with input current of 5 mA. The On resistance is less than our conventional models. With no metallic contacts, the PhotoMOS relay has stable switching characteristics.

6. Low-level off state leakage current:
The SSR has an off state leakage current of several milliamperes, whereas the PhotoMOS relay has only 30 pA even with the rated load voltage of 200 V (AQW227N).

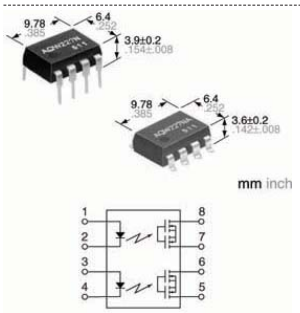
7. Controls low-level analog signals:
PhotoMOS relay features extremely low closed -circuit offset voltages to enable control of small analog signals without distortion.

8. Low terminals electromotive force:(approx. 1 µV)

TYPICAL APPLICATIONS

- Measuring equipment
- Scanner, IC checker, Board tester

Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Qutline L*W*H	Type
47366	AQW224N	NAIS	NAIS_RF PhotoMOS RELAY	2 Form A	400V / 40mA	400V	UL(E43149),C-UL	(W)6.4×(L) 9.78×(H) 3.9 mm	AQW224N
47365	AQW227N	NAIS	NAIS_RF PhotoMOS RELAY	2 Form A	200V / 50mA	200V	UL(E43149),C-UL	(W)6.4×(L) 9.78×(H) 3.9 mm	AQW227N



FEATURES

1. Compact 8-pin DIP size
The device comes in a compact (W) 6.4×(L) 9.78×(H) 3.9 mm (W) .252×(L) .385×(H) .154 inch , 8-pin DIP size (through hole terminal type).

2. Applicable for 2 Form A use as well as two independent 1 Form A use3. Controls low-level analog signals
PhotoMOS relays feature extremely low closed-circuit offset voltage to enable control of low-level analog signals without distortion.

4. High sensitivity, low ON resistance
Can control a maximum 0.16 A (AQW254) load current with a 5 mA input current. Low ON resistance of 16 Ω (AQW254). Stable operation because there are no metallic contact parts.

5. Low-level off state leakage current
The SSR has an off state leakage current of several milliamperes, whereas the PhotoMOS relay has typ. 100 pA even with the rated load voltage of 400 V (AQW254).