



Relays & Solenoids

NAIS_PCB Relays

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



FEATURES

1. High-speed switching

Since release time is 0.1 ms, the MOSFET can be turned off quickly in urgent situations.

2. Space saving

With a built-in control circuit, an external resistor is not needed. This contributes to making substrates more compact.

3. High insulation

DIP type: 5,000 V

SOP type: 2,500 V

SSOP type: 1,500 V

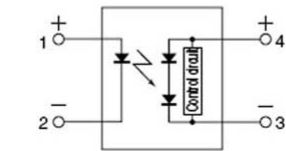
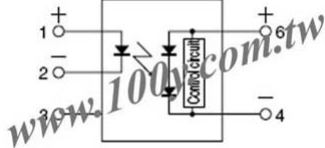
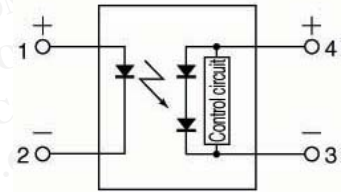
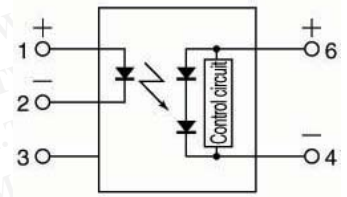
4. Extensive product lineup

Products include the industry's smallest SSOP type, SOP4 type, and DIP 6 type.

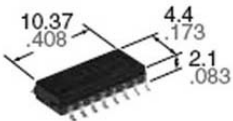
TYPICAL APPLICATIONS

MOSFET driver

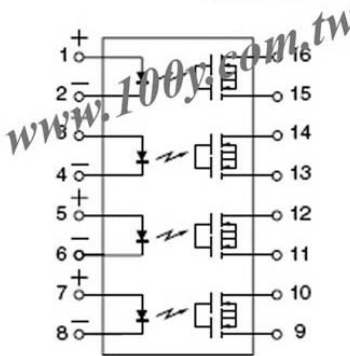
Power supply (Vcc) for electronic circuits



Part No.	Product No.	Manufacturer	Description	Coil Voltage	Recognized Safety	Type
47162	APV1121S	NAIS	PHOTOVOLTAIC MOSFET DRIVER	8.7V	UL,C-UL	APV1,2
47161	APV1122	NAIS	PHOTOVOLTAIC MOSFET DRIVER	8.7V	UL,C-UL	APV1,2
47164	APV2111V	NAIS	PHOTOVOLTAIC MOSFET DRIVER	8.2V	UL,C-UL	APV1,2
47163	APV2121S	NAIS	PHOTOVOLTAIC MOSFET DRIVER	8.2V	UL,C-UL	APV1,2



mm inch



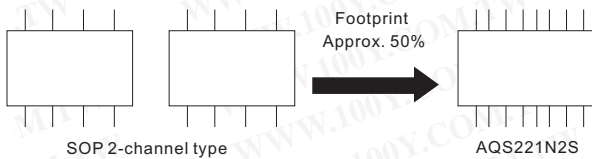
FEATURES

1. This is a CxR10 type that achieves very lower output capacitance.

2. 4-channel (4 Form A) of RF PhotoMOS Relays

3. SO package 16-pin type in super miniature design

The device comes in a super-miniature SO package measuring (W) 10.37 × (L)4.4 × (H)2.1mm (W) .408×(L).173×(H).083inch— approx. 50% of the footprint size of 8-pin(2-channel) type.



4. Applicable for 4 Form A use, as well as 4 independent 1 Form A

5. High speed switching

Turn on time: 30µs

Turn off time: 30µs

6. Low-level off state leakage current

The SSR has an off state leakage current of several milliamperes, whereas this PhotoMOS relay has typ. 10pA even with the rated load voltage

7. Controls low-level analog signals

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

TYPICAL APPLICATIONS

Measuring and testing equipment

1. Testing equipment for semiconductor performance

IC tester, Liquid crystal driver tester, semiconductor performance tester

2. Board tester

Bare board tester, In-circuit tester, function tester

3. Medical equipment

Ultrasonic wave diagnostic machine

4. Multi-point recorder

Warping, thermo couple

Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
47167	AQS221N2S	NAIS	Lower output capacitance and on resistance .High speed switching	4-channel (4 Form A)	4-channel (4 Form A)	40V	UL,C-UL	AQS221N2S

FEATURES

1. High capacity and low on-resistance

Features: Compared to predecessor (AQS225S)

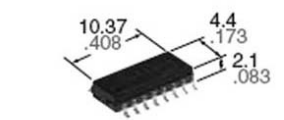
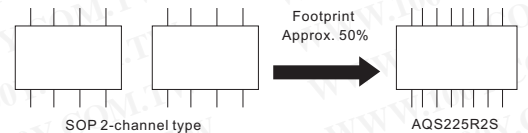
Type	AQS225S	AQS225R2S
C×R	*1 94.5pF·Ω (typ.)	*2 47.25pF·Ω (typ.)
Load current value	50mA	70mA

*1 4.5pF × 21Ω
*2 4.5pF × 10.5Ω

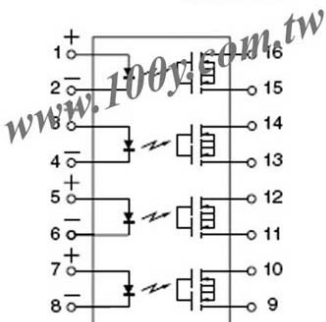
2. 4-channel (4 Form A) of RF PhotoMOS Relays

3. SO package 16-pin type in super miniature design

The device comes in a super-miniature SO package measuring (W) 10.37 × (L)4.4 × (H)2.1mm (W) .408×(L).173×(H).083inch— approx. 50% of the footprint size of 8-pin(2-channel) type.



mm inch



4. Applicable for 4 Form A use, as well as 4 independent 1 Form A

5. Low capacitance between output terminals ensure high response speed:

The capacitance between output terminals is small, typically 4.5pF.This enables for a fast operation speed of 0.04ms(typ.) .

6. Low-level off state leakage current

7. Controls low-level analog signals

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

