



Relays & Solenoids

NAIS_PCB Relays

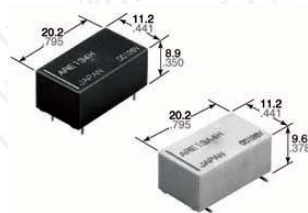
Detailed product specifications are available on: us.100y.com.tw



Characteristics

		SPDT
Initial insulation resistance* ¹		Min. 1,000 MΩ (at 500 V DC)
Initial breakdown voltage* ²	Between open contacts	500 Vrms for 1 min.
	Between contact and coil	500 Vrms for 1 min.
	Between contact and earth terminal	500 Vrms for 1 min.
	Between coil and earth terminal	500 Vrms for 1 min.
Operate time* ³ (at 20°C)		Max. 15ms
Shock resistance	Functional* ⁴	Min. 500 m/s ²
	Destructive* ⁵	Min. 1,000 m/s ²
Vibration resistance	Functional* ⁶	10 to 55 Hz at double amplitude of 3mm
	Destructive	10 to 55 Hz at double amplitude of 5mm
Conditions for operation, transport and storage* ⁷ (Not freezing and condensing at low temperature)		Ambient temp Humidity
		-55°C to +85°C -67°F to +185°F 5 to 85% R.H.
Unit weight (Approx.)		50g 1.76oz

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
47136	ARD15105	NAIS	13GHz, 18GHz, 26.5GHz COAXIAL SWITCH	5V	RD



FEATURES

• Excellent high frequency characteristics (to 2.6GHz)

Type	Frequency	900MHz	2.6GHz
Impedance 50Ω	V.S.W.R. (Max.)	1.3	1.7
	Insertion loss (dB, Max.)	0.2	0.7
	Isolation (dB, Min.)	60	60
Impedance 75Ω	V.S.W.R. (Max.)	1.2	1.5
	Insertion loss (dB, Max.)	0.2	0.5
	Isolation (dB, Min.)	60	30

• Surface-mount type

also available

• Compact and slim size

Size: 20.2(L) × 11.2(W) × 8.9(H)* mm

.795(L) × .441(W) × .350(H) inch*

Surface-mount terminal is 9.6 mm .378

inch size.

TYPICAL APPLICATIONS

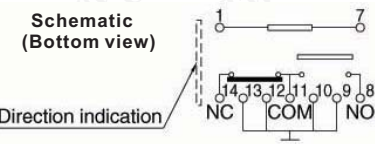
1. Broadcasting and video markets.

- Digital broadcasting market
- STB/tuner market, etc.

2. Communications market

- Antennae switching
- All types of wireless devices

Standard PC board terminal (75Ω, 50Ω type)



SPECIFICATIONS

Contact		1 Form C
Arrangement		1 Form C
Contact material		Gold
Initial contact resistance (By voltage drop 10V DC 10mA)		Max. 100mΩ
Rating	Contact rating	1W (at 2.6 GHz [Impedance 75 Ω, V.S.W.R. Max. 1.5] [Impedance 50 Ω, V.S.W.R. Max. 1.7]) 10mA 24V DC (resistive load)
	Contact carrying power	10W (at 2.6GHz [Impedance 75 Ω, V.S.W.R. Max. 1.5] [Impedance 50 Ω, V.S.W.R. Max. 1.7])
	Max. switching voltage	30 V DC
	Max. switching current	0.5 A DC

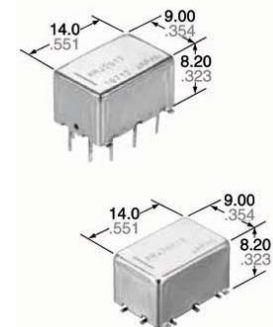
Coil (at 20°C, 68°F)

Nominal operating power	200 mW
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Characteristics

Initial insulation resistance* ¹		Min. 100 MΩ (at 500 V DC)
Initial breakdown voltage* ²	Between open contacts	500 Vrms
	Between contact and coil	1,000 Vrms
	Between contact and ground terminal	500 Vrms
Operate time* ³ (at 20°C)		Max. 10ms
Shock resistance	Functional* ⁵	Min. 500 m/s ² {50 G}
	Destructive* ⁶	Min. 1,000 m/s ² {100 G}
Vibration resistance	Functional* ⁷	10 to 55 Hz at double amplitude of 3 mm
	Destructive	10 to 55 Hz at double amplitude of 5 mm
Unit weight		Approx. 5 g .18 oz

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
47140	ARE10A12	NAIS	2.6 GHz SMALL MICROWAVE RELAYS	12V	RE



FEATURES

• Excellent high frequency characteristics (50Ω, at 5GHz)

V.S.W.R.: Max. 1.25

Insertion loss: Max. 0.5dB

Isolation: Min. 35dB (Between open contacts)
Min. 30dB (Between contact sets)

• Surface mount terminal

Surface mount terminals are now standard so there is much less work in designing PC boards.

• Small size

Size: 14.00 (L) × 9.00 (W) × 8.20 (H) mm .551 (L) × .354 (W) × .323 (H) inch

TYPICAL APPLICATIONS

Measurement equipment market

Attenuator circuits, spectrum analyzer, oscilloscope, mobile equipment, tester

Mobile telecommunication market

IMT2000, microwave communication

Medical instruments market

Coil (at 20°C, 68°F)

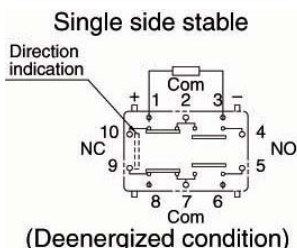
	Nominal operating power
Single side stable	200 mW
2 coil latching	150 mW

SPECIFICATIONS

Contact		2 Form C
Arrangement		2 Form C
Contact material		Gold alloy
Initial contact resistance (By voltage drop 10V DC 10mA)		Max. 150mΩ
Rating	Contact rating	1W (at 5 GHz, Impedance 50 Ω, V.S.W.R. & 1.25) 10mA 10V DC (resistive load)
	Contact carrying power	1W (at 5 GHz, Impedance 50 Ω, V.S.W.R. & 1.25)
	Max. switching voltage	30 V DC
	Max. switching current	0.3 A DC

Characteristics

Initial insulation resistance* ¹		Min. 500 MΩ (at 500 V DC)
Shock resistance	Functional* ⁵	Min. 500 m/s ²
	Destructive* ⁶	Min. 1,000 m/s ²
Vibration resistance	Functional* ⁷	10 to 55 Hz at double amplitude of 3 mm
	Destructive	10 to 55 Hz at double amplitude of 5 mm
Unit weight		Approx. 3 g .11 oz



Part No.	Product No.	Manufacturer	Description	Coil Voltage	Type
47138	ARJ20A12Z	NAIS	8GHz CAPABILITIES	12V	RJ

