



Panasonic Electric Works
Corporation of America

New Product Release

Marketing Contact Information
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New 3GHz High Frequency Relay

ARS relay is a new addition to Panasonic Electric Work's high frequency relay lineup. Excellent high frequency characteristics are provided up to 3GHz, impedance 75Ω. Options include 1-and 2-coil latching, and standard and reversed contact arrangements (1 Form C).

Features include:

- 1) Low operating noise versions - 30dB rating
- 2) Compact size - approximately 60% smaller than previous models (RK and RE models) – Dimensions: 14 x 8.6 x 7mm

Typical Applications:

- Set top boxes / tuners
- Digital broadcasting market
- Wireless devices
- Antenna switching



A 50Ω version coming soon.

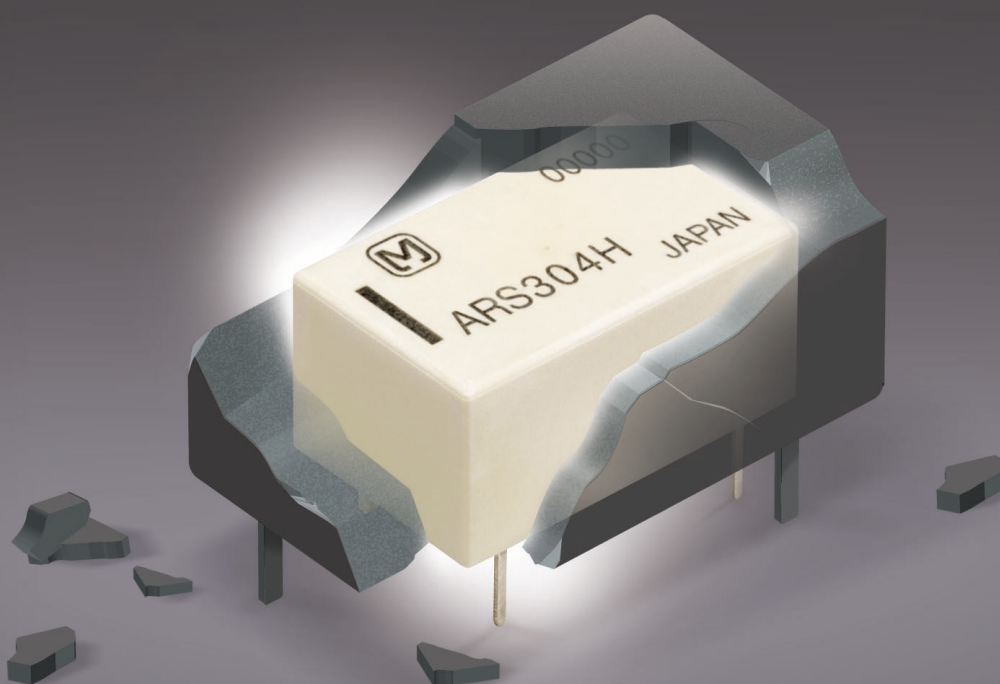
In this New Product package, you will find:

- ARS Sell Sheet
- ARS complete Data Sheet
- Application Note
- Checklist for HF Relay Selection
- High Frequency / Microwave Relay Design Win Registration Program

Panasonic

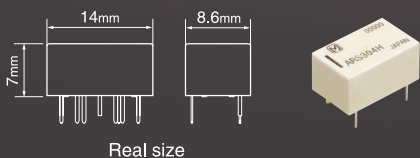
ideas for life

60% Reduction in size

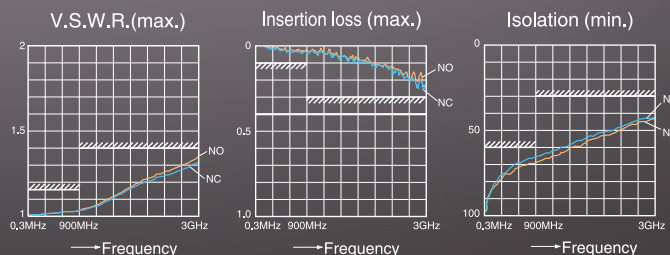


Newly released, the smallest[※] high frequency relay with 3GHz capability. [※](as of 30. Nov. 2006)

Compared to RK relay, the volume was cut down approximately 60%, and still made it possible to obtain excellent high frequency quality. Noiseless type (30dB) is also available for networking and other various markets. We will continue to provide better products to you.



● Obtain excellent high frequency quality(max.3GHz,75 ohm)



RS Relay

NEW

RS relay
ASCT1E182E Nov. '06

New

■ SPECIFICATIONS

Contact arrangement		1c
Initial contact resistance		Max. 100mΩ (By voltage drop 10V DC 10mA)
Nominal operating power		200mW (Single side stable type, 1 coil latching type), 400mW (2 coil latching type)
High frequency characteristic Impedance 75 Ω (initial)	V.S.W.R.	Max. 1.15/900MHz, Max. 1.40/3GHz
	Insertion loss	Max. 0.10dB/900MHz, Max. 0.30dB/3GHz
	Isolation	Min. 60dB/900MHz, Min. 30dB/3GHz
Expected life (min. operations)	Mechanical	5x10 ⁶ (Single side stable, Standard type)
		1x10 ⁶ (Single side stable, Silent type) (latching type)
	Electrical	3x10 ⁵ (0.01A 24V DC resistive load) 3x10 ⁵ (1W, 3GHz, 75 Ω, V.S.W.R. ≤ 1.4)
Operating sound (※)	Standard type	About 40dB
	Silent type	About 30dB

(※)Measuring condition: A weighted sound pressure level, FAST, Nominal operating voltage applied to the coil(with diode), measured 30cm away from top side of a relay.
(Ref.)RK RELAY (existing product) Operating sound; Approximately 50dB

■ TYPES

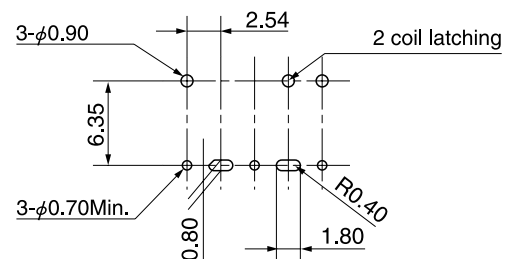
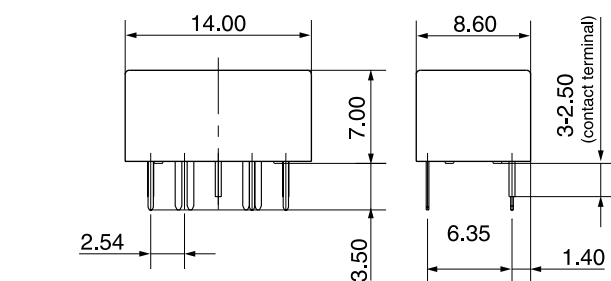
1. Standard contact type

Contact arrangement	Nominal Voltage, V DC	Part No.			
		Standard type			Silent type
		Single side stable type	1coil latching type	2 coil latching type	Single side stable
1c	3	ARS1003	ARS1103	ARS1203	ARS1303
	4.5	ARS104H	ARS114H	ARS124H	ARS134H
	9	ARS1009	ARS1109	ARS1209	ARS1309
	12	ARS1012	ARS1112	ARS1212	ARS1312
	24	ARS1024	ARS1124	ARS1224	ARS1324

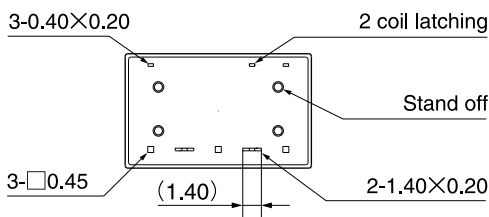
2. Reverse contact type

Contact arrangement	Nominal Voltage, V DC	Part No.			
		Standard type			Silent type
		Single side stable type	1coil latching type	2 coil latching type	Single side stable
1c	3	ARS3003	ARS3103	ARS3203	ARS3303
	4.5	ARS304H	ARS314H	ARS324H	ARS334H
	9	ARS3009	ARS3109	ARS3209	ARS3309
	12	ARS3012	ARS3112	ARS3212	ARS3312
	24	ARS3024	ARS3124	ARS3224	ARS3324

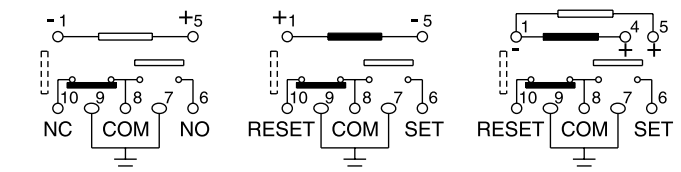
■ DIMENTIONS (mm)



PC board pattern (Bottom view) (Tolerance: ±0.1)



General tolerance ±0.3



Schematic standard contact type (Bottom view)

These materials are printed on ECF pulp.
These materials are printed with earth-friendly vegetable-based (soybean oil) ink.



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