DC operated slim type card relays

Rated thermal currrent 5 Amps.

■ Description

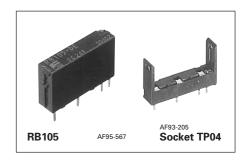
The RB104 and 105 relays are designed for printed circuit board use.

These relays are extremely thin (5mm) and so, can be densely mounted on PC boards. As a result, PC board size and cost can be greatly reduced. Employing of bifurcated contacts ensure high contact reliability, allowing the RB104,105 relays to be used in low-

Coil voltages are available in ranges from 4.5V to 24V DC.

■ Features

- •Thin, miniature size and light weight The mounting space on the PC board can be reduced.
- UL, CSA and TÜV approved
- · Low power consumption They can be operated by means of non-polarity magnet.
- SIL terminal arrangement SIL (Single-side In-Line lead) package allows the relays to be mounted easily on PC board.
- Fluxtight construction
- Immersion cleanable



■ Ordering information

Specify the following:

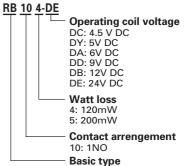
1. Type number

■ Types and ratings

Туре	Ordering code	Power consumption	Rated voltage	Pick-up voltage	Thermal current	Make and break current (res.load)
RB104	RB104- ■	120mW	4.5, 5, 6 9, 12 24V DC	70% of rated voltage or less		5A at 250V AC 5A at 30V DC
RB105	RB105- ■	200mW				

Note: Enter the coil voltage code in the ■ mark as follow 4.5V DC: DC, 5V DC: DY, 6V DC: DA, 9V DC: DD, 12V DC: DB, 24V DC: DE

■ Type number nomenenclature



■ Specifications

Operating time Release time		10ms or less at rated voltage 5ms or less at rated voltage	
Dielectric strength		750V AC rms. 1 min. between open contacts 2,000V AC rms. 1 min. between contact and coil Approx. 1.4pF between contact and coil 4,500V or more 1.2 \times 50 μs between contact and coil 100M Ω at 500V DC megger	
Stray electrostatic capac Impulse Insulation resistance	city		
Electrical durability	AC	100,000 operations at 220V AC 2A, inductive load 130,000 operations at 220V AC 3A, resistive load	
	DC	150,000 operations at 24V DC 1A, inductive load 100,000 operations at 24V DC 5A, resistive load	
Mechanical durability		20 million operations	
Ambient temperature		-40°C to +70°C(no icing)	

■ Approvals

UL, CSA and TÜV UL file No. E44592 CSA file No. LR20479 TÜV license No. R9551729

Ratings

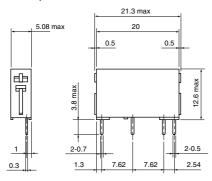
Socket TP04

Voltage	Resistive load	Inductive load
120V AC	_	1A
240V AC	5A	_
30V DC	5A	2A (15ms)
120V DC	0.5A	0.2A (15ms)

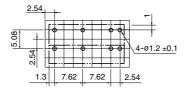
■ Dimensions, mm

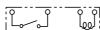
RB104,105

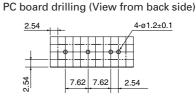
Mass: 3g



PC board drilling (View from back side)







0.7

2.4

7.62

Internal wiring diagram

2 54