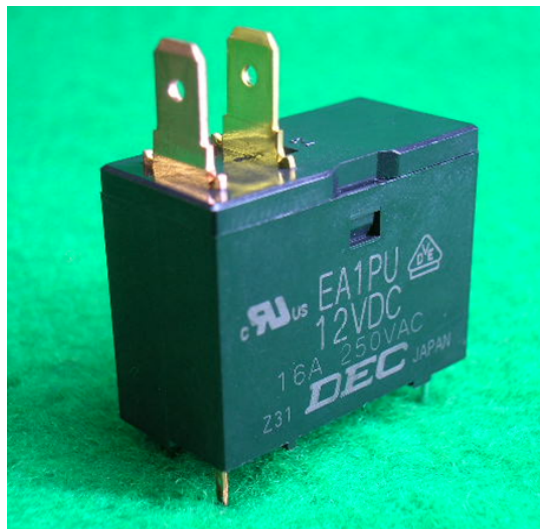


EA
series

Power relay series pursuing reliability and safety



EA1PU

■ Currently it is used for such purposes

- Power for microwave ovens
- Control panel, Power supply equipment, Molding equipment, Machine tools, Welding machines, Machinery for agriculture
- Vending machines, Telecommunications equipment, Disaster prevention equipment, Copiers
- Commercial equipment, Measuring instruments, Medical devices
- Various household appliances

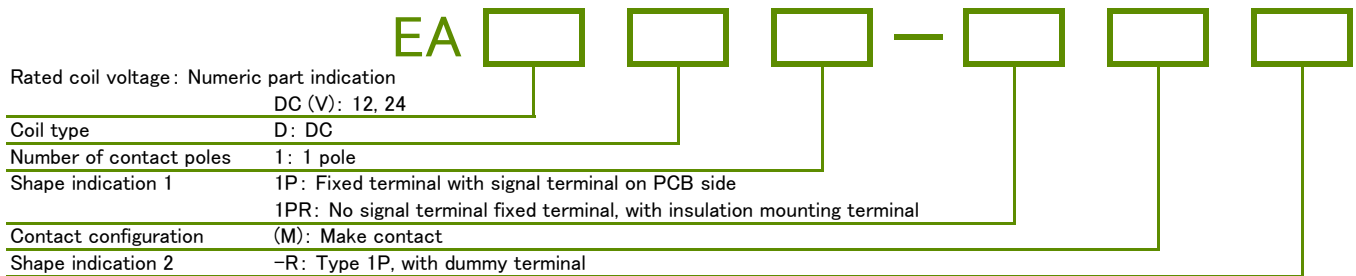
DEC is a professional manufacturer of relays

EA series

■ Features

- General purpose power relay boasting high reliability and achievement.
- Tab terminals for contact and PCB terminals for coil and contact signal is prepared.
- It is a relay developed with optimum specification for microwave ovens.
- Low-profile, low coil power consumption (high sensitivity) relay.

■ Model numbering system



■ Safety standards

	Contact rating
UL (C-UL)	16A 250V AC
VDE	16A 250V AC $\cos \phi = 1$
Electrical Appliances and Materials Safety Act	Conformable

■ Coil ratings

Item		Rated current (mA)	Coil resistance (Ω)	Operate voltage (V)	Release voltage (V)	Maximum voltage (V)	Power consumption (W)
AC/DC	Voltage			Ratio to rated voltage			
DC	12	41.7	288	80% max.	5% min.	110%	0.5
	24	20.9	1150				

- Notes:
1. Rated current and coil resistance are values at coil temperature of 20°C, tolerance is $\pm 10\%$.
 2. Operate voltage and release voltage are values at coil temperature of 20°C.
 3. Maximum voltage is the maximum value of the allowable voltage fluctuation range of the relay coil operating power supply with the ambient temperature at 20°C.

EA series

■ Ratings・Performance

Specifications	Item		Performance
Contact specification	Contact configuration		1a
	Contact resistance		50mΩ max. (at DC6V 1A)
	Contact material		Ag alloy
Ratings	Rated load (resistive load)		AC250V 16A
	Max. switching capacity (resistive load)		4000VA
	Max. switching voltage		AC250V
	Max. switching current		16A
Electrical capability	Insulation resistance		100MΩ min. (at DC500V)
	Dielectric strength	Between coil and contact	AC4000V 1 min
		Between open contact	AC1000V 1 min
	Impulse withstand voltage (between coil and contact)		10 000V min. (1.2 × 50 μs)
	Operate time (at rated voltage on, at 20°C)		15ms max. (excluding contact bounce time)
	Release time (at rated voltage off, at 20°C)		5ms max. (excluding contact bounce time)
Mechanical capability	Vibration resistance	Malfunction	10 to 55 to 10Hz (double amplitude 1.5mm)
		Destruction	10 to 55 to 10Hz (double amplitude 1.5mm)
	Shock resistance	Malfunction	100m/s ²
		Destruction	1000m/s ²
Life	Mechanical endurance (at 20 times/min)		1 000 000 times min.
	Electrical endurance (resistive load) (at 20 times/min)		100 000 times min. (at rated load)
Conditions for operation	Ambient temperature		-15°C to +70°C (no freezing and condensing at low temperature)
	Ambient humidity		5% to 85%RH
Mass			approx. 12g

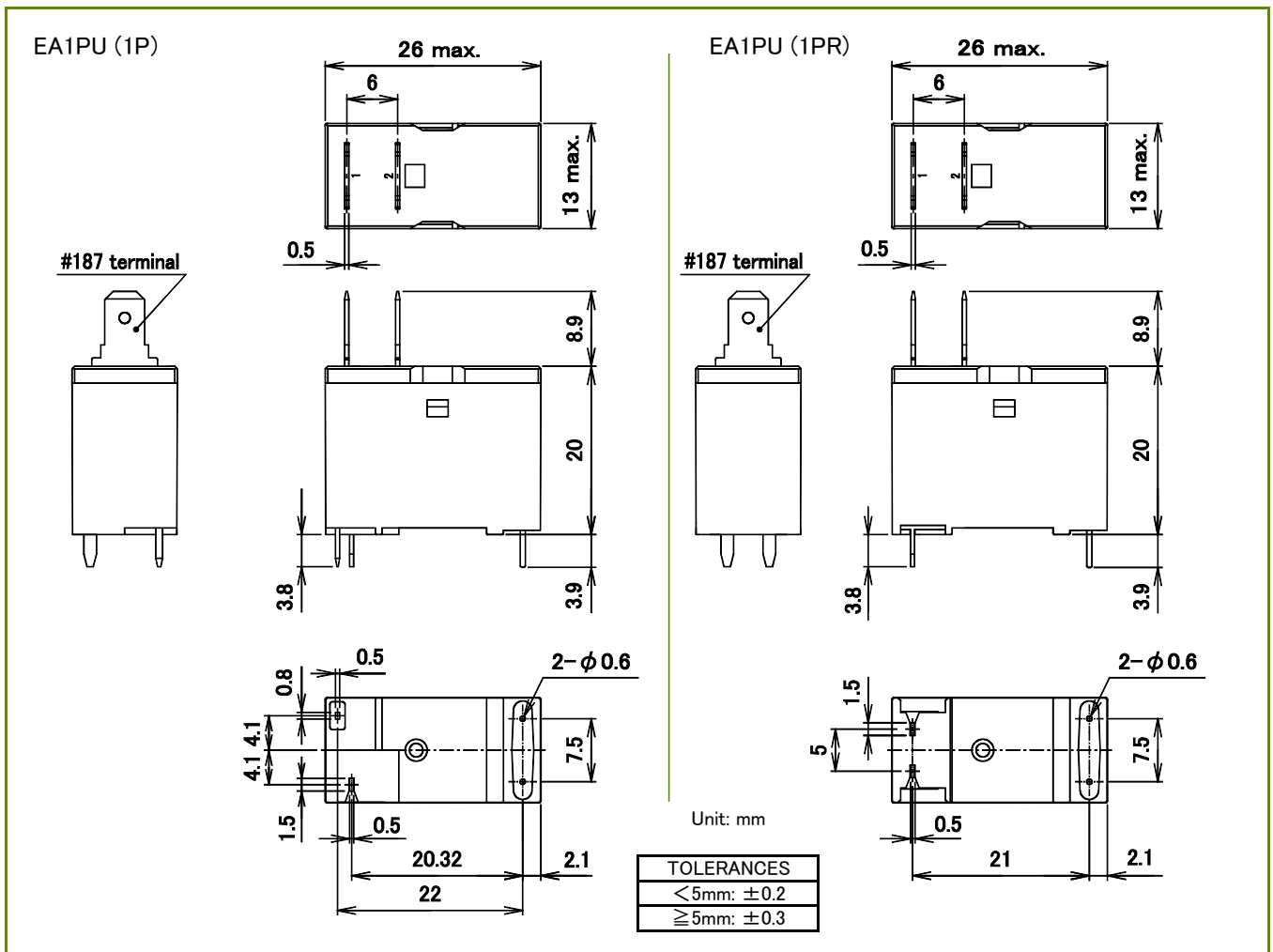
● Notes: The above is the initial value.

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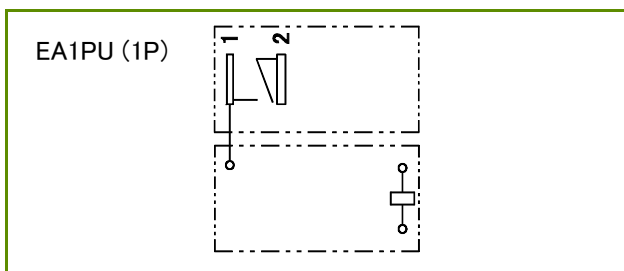
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EA series

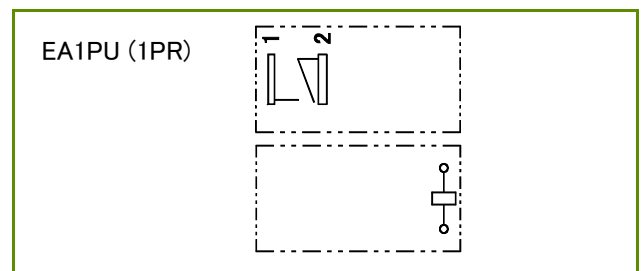
■ Dimensions



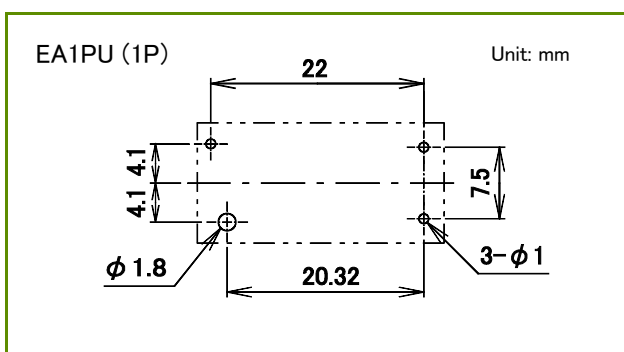
■ Schematics



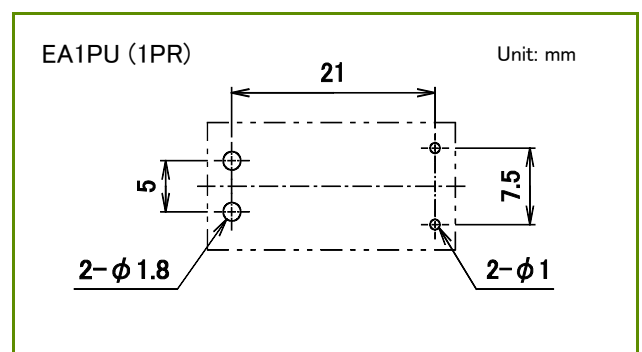
■ Schematics



■ PCB mounting holes (tolerances ±0.1)



■ PCB mounting holes (tolerances ±0.1)



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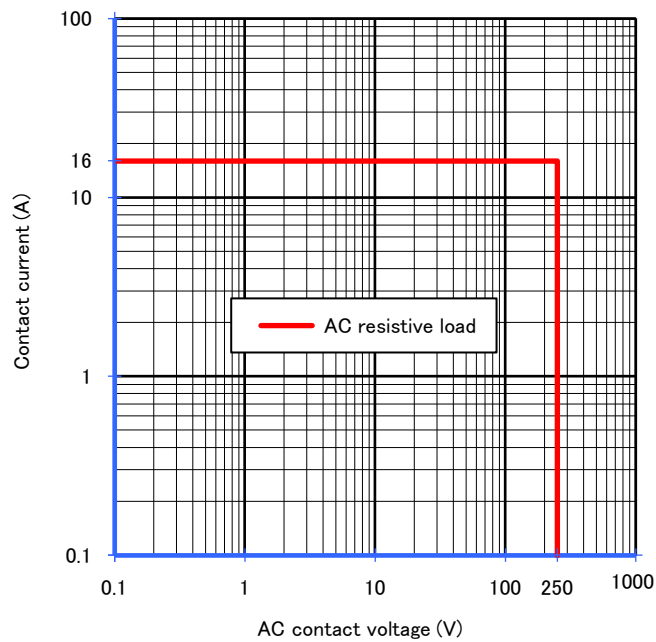
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Reference data

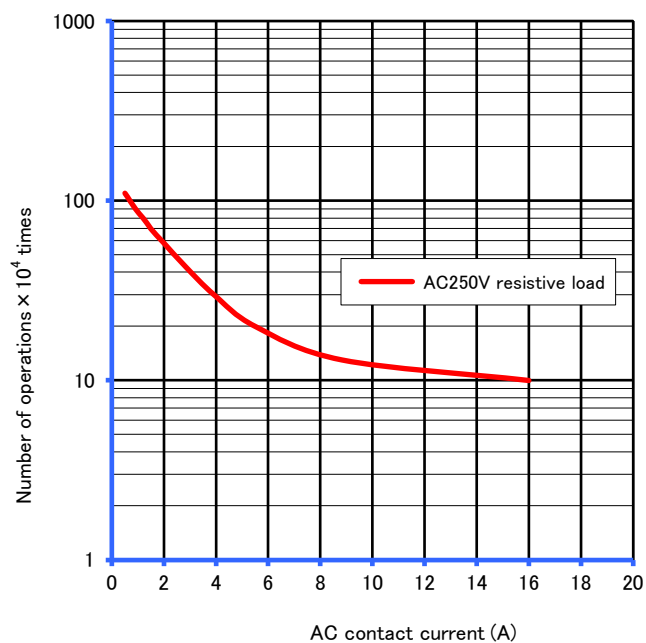
■ Maximum switching capacity

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■ Durability curve

EA1PU



● Please understand that specifications may be changed without notice due to product improvement etc. ● Dimensions and specifications indicate only major points. Please contact our sales representatives for details.

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DEC Daiichi Electric Co., Ltd.

Head office 2-2, Noge 3-chome, Setagaya-ku, Tokyo 158-0092, Japan

Phone +81-3-3703-5421

Facsimile +81-3-3703-5426

U R L <https://www.j-dec.co.jp> E-Mail: sales@j-dec.co.jp

Agency

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