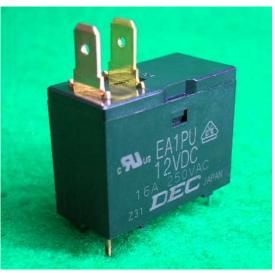




Power relay series pursuing reliability and safety







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

■ Features

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

■ Model numbering system

	EA					
Rated coil voltage: Numeric	part indication					
	DC (V): 12, 24					
Coil type	D: DC					
Number of contact poles	1: 1 pole					
Shape indication 1	1P: Fixed terminal with signal terminal on PCB side					
	1PR: No signal terminal fixed terminal, with insulation mounting terminal					
Contact configuration	(M): Make contact					
Shape indication 2	-R: Type 1P, with dummy terminal					

■ Safety standards

	Contact rating
UL/cUL	16A 250V AC
VDE	16A 250V AC cos φ=1
Electrical Appliances and Materials Safety Act	Conformable

■ Coil ratings

	Item	Rated current (mA)	Coil resistance (Ω)	Operate vo l tage (V)	Release voltage (V)	Maximum vo l tage (V)	consumption
AC/DC Voltage		(IIIA)	(32)	Ratio to rated voltage			(W)
DC	12	41.7	288	80% max.	5% min.	110%	0.5
	24	20.9	1150				0.5

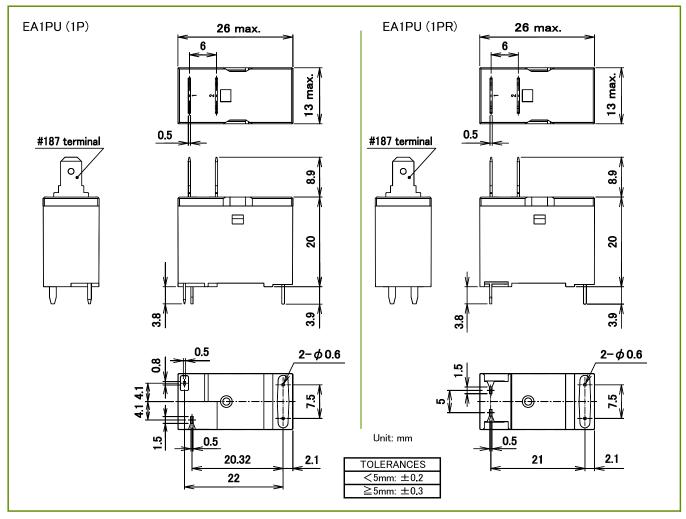
- Notes: 1. Rated current and coil resistance are values at coil temperature of 20° C, tolerance is $\pm 10\%$.
 - 2. Operate voltage and release voltage are values at coil temperature of 20°C.
 - 3. Maximum voltage is the maximum value of the allowable voltage fluctuation range of the relay coil operating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

■ Ratings • Performance

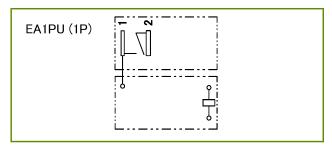
Specifications		Item	Performance		
Contact specification Ratings Electrical capability Mechanical capability Life	Contact conf	iguration	1a		
	Contact resis	stance	50m Ω max. (at DC6V 1A)		
specification	Contact mate	erial	Ag alloy		
	Rated load(resistive load)	AC250V 16A		
Patings	Max. switchir	ng capacity (resistive load)	4000VA		
Ratings	Max. switchir	ng voltage	AC250V		
	Max. switchir	ng current	16A		
	Insulation res	sistance	100M $Ω$ min. (at DC500V)		
	Dielectric	Between coil and contact	AC4000V 1 min		
Electrical	strength	Between open contact	AC1000V 1 min		
capability	Impulse withstand voltage (between coil and contact)		10 000V min. (1.2×50 μ s)		
	Operate time	(at rated voltage on, at 20℃)	15ms max. (excluding contact bounce time)		
	Release time	(at rated voltage off, at 20°C)	5ms max. (excluding contact bounce time)		
	Vibration	Malfunction	10 to 55 to 10Hz (double amplitude 1.5mm)		
Mechanical	resistance	Destruction	10 to 55 to 10Hz (double amplitude 1.5mm)		
capability	Shock	Malfunction	100m/s ²		
	resistance	Destruction	1000m/s ²		
	Mechanical e	ndurance (at 20 times/min)	1 000 000 times min.		
Life	Electrical endurance (resistive load)		100 000 times min. (at rated load)		
	(at 20 times/	*******			
Conditions for	Ambient temperature		-15°C to +70°C (no freezing and condensing at low temperature)		
operation	Ambient hum	idity	5% to 85%RH		
Mass			approx, 12g		

Notes: The above is the initial value.

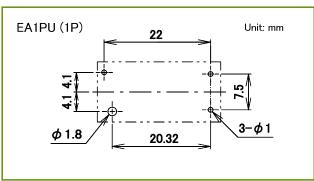
Dimensions



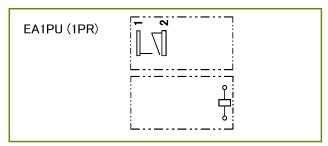
■ Schematics



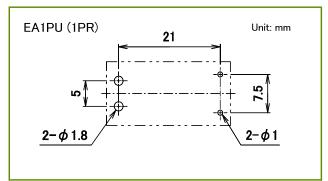
■ PCB mounting holes (tolerances±0.1)



Schematics



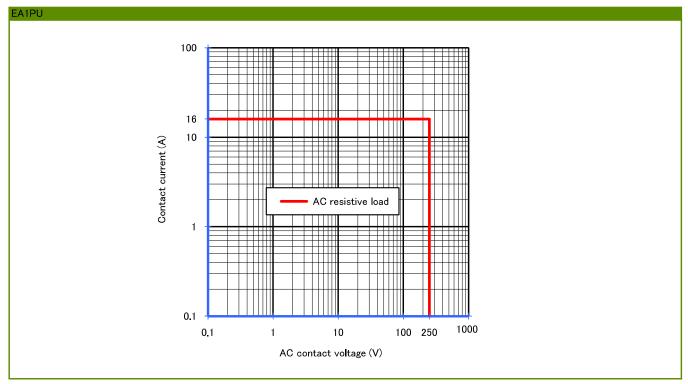
■ PCB mounting holes (tolerances±0.1)



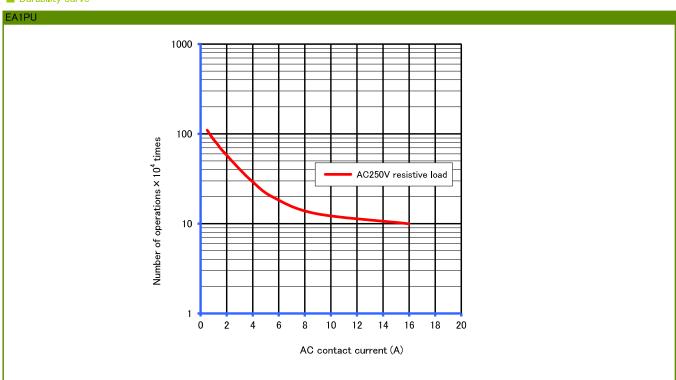
DEC is a professional manufacturer of relays

Reference data

■ Maximum switching capacity



■ Durability curve



Disease understand that snacifications may be changed without notice due to product improvement etc. • Dimensions and snacifications indicate only major noints. Please contact our sales representatives for detailed

DEC is a professional manufacturer of relays

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