



Power relay series pursuing reliability and safety









DU1PU

- 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

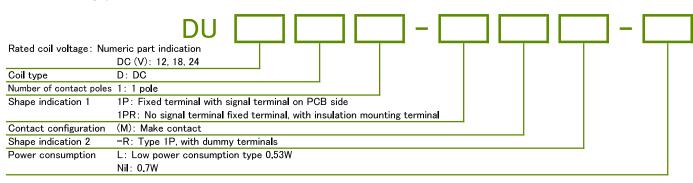
DEC is a professional manufacturer of relays



#### 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.

#### ■ Model numbering system



#### ■ Safety standards

	Contact rating
UL/cUL	16A 250V AC 20A 125V AC
SEMKO	16A 250V AC
VDE	16A 250V AC $\cos\phi$ =1 12A 250V AC $\cos\phi$ =0.4
Electrical Appliances and Materials Safety Act	Conformable

### ■ Coil ratings

Item		0.7W		High sensitivity: 0.53W		Operate voltage (V)	Release voltage (V)	voltage	Power
AC/DC	Voltage	Rated current (mA)	Coil resistance $(\Omega)$	Rated current (mA)	Coil resistance $(\Omega)$		itio to rated volta	(V)	consumption
DC	12	58	206	44	275	1/6	icio co raceu voica	gc	
	18	38.3	470	29.5	610	80% max.	10% min.	110%	0.7W/0.53W
	24	30.8	780	22	1100				

- Notes: 1. Rated current and coil resistance are values at coil temperature of 20°C, tolerance is ±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.

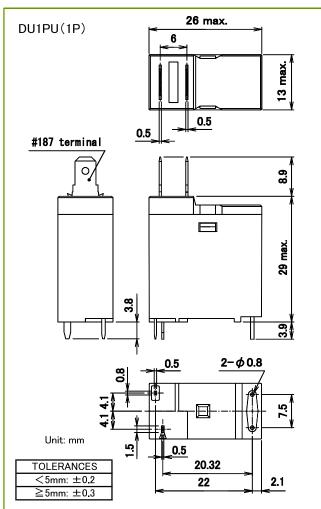
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#### ■ Ratings • Performance

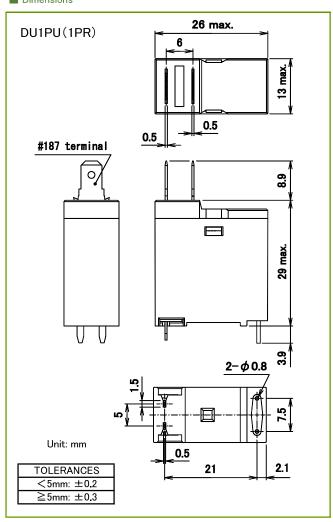
Specifications		Item	Performance			
Contact specification	Contact conf	iguration	1a			
	Contact resis	stance	$30$ m $\Omega$ max. (at DC6V 1A)			
	Contact mate	erial	Ag alloy			
Ratings	Rated load (r	esistive load)	AC250V 16A			
	Max. switchin	ng capacity (resistive load)	4000VA			
	Max. switchir	ng voltage	AC250V			
	Max. switchin	ng current	16A			
	Insulation res	sistance	100M $\Omega$ min. (at DC500V)			
	Dielectric strength	Between coil and contact	AC4000V 1 min			
Electrical		Between open contact	AC1500V 1 min			
capability	Impulse with	stand voltage (between coil and contact)	10 000V min. $(1.2 \times 50 \mu\text{s})$			
	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)			
	Vibration resistance	Malfunction	10 to 55 to 10 Hz (double amplitude 1.5mm)			
Mechanical		Destruction	10 to 55 to 10 Hz (double amplitude 1.5mm)			
capability	Shock resistance	Malfunction	$100 \mathrm{m/s}^2$			
		Destruction	1000m/s <sup>2</sup>			
Life	Mechanical e	ndurance (at 180 times/min)	1 000 000 times min.			
	Electrical end	durance	100 000 times min. (at rated load)			
	(at 20 times/	min)	100 000 times min, (at rated load)			
Conditions for	Ambient tem	perature	-25°C to +70°C (no freezing and condensing at low temperature)			
operation	Ambient hum	idity	5% to 85%RH			
Mass			approx. 16g			

Notes: The above is the initial value.

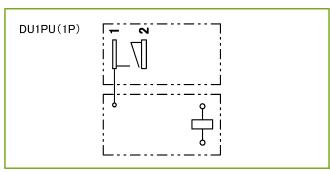




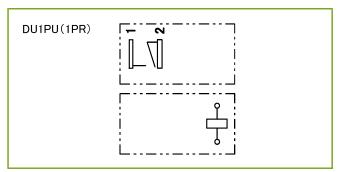
#### Dimensions



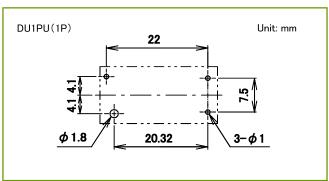
#### Schematics



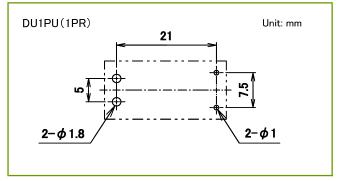
#### Schematics



#### ■ PCB mounting holes (tolerances±0.1)



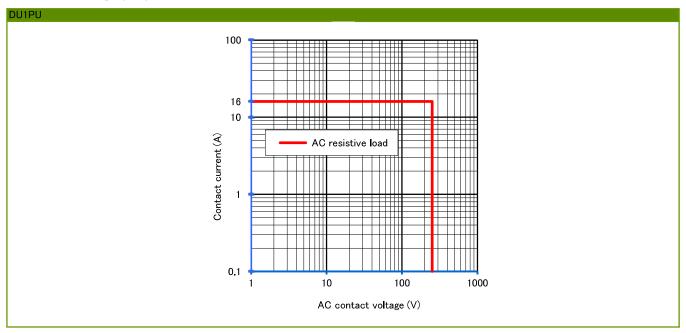
■ PCB mounting holes (tolerances±0.1)



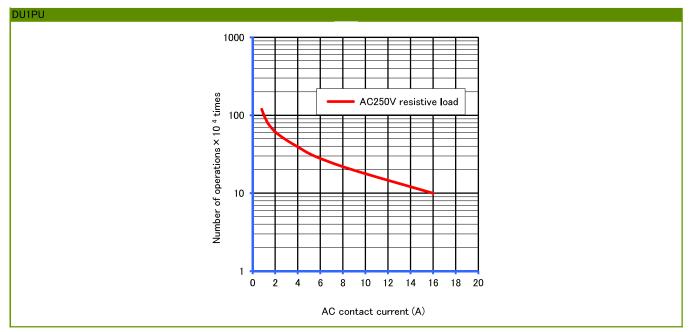
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#### Reference data

#### ■ Maximum switching capacity



### ■ Durability curve





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