



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

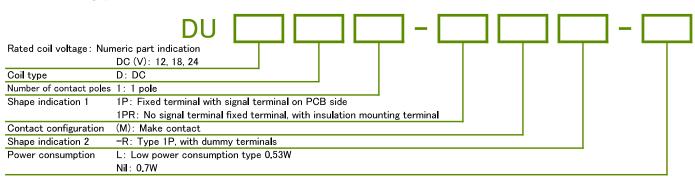
DEC is a professional manufacturer of relays



■ 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 (Ω)	Rated current (mA)	Coil resistance (Ω)			(V)	consumption	
110/00		(IIIA)	(36)	(IIIA)	(36)	Ratio to rated voltage				
DC	12	58	206	44	275	80% max.				
	18	38.3	470	29.5	610		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 $\pm 10\%$.
- 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.

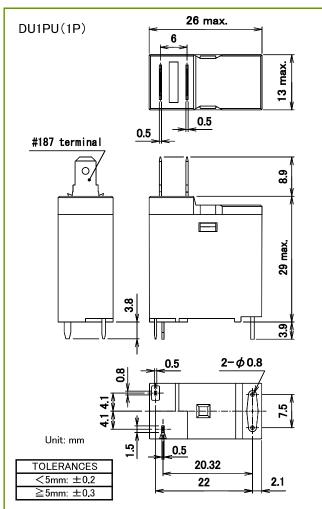
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■ Ratings • Performance

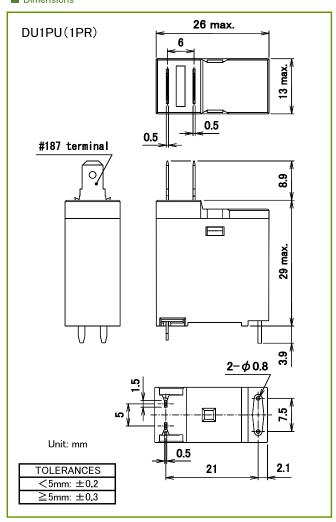
Specifications		I tem	Performance		
Contact specification	Contact configuration		1a		
	Contact resis	stance	30 m Ω max. (at DC6V 1A)		
Specification	Contact mate	erial	Ag alloy		
Ratings	Rated load (resistive load)		AC250V 16A		
	Max. switchin	g capacity (resistive load)	4000VA		
Raurigs	Max. switchin	g voltage	AC250V		
	Max. switchin	g current	16A		
	Insulation res	iistance	100M Ω min. (at DC500V)		
	Dielectric	Between coil and contact	AC4000V 1 min		
Electrical	strength	Between open contact	AC1500V 1 min		
capability	Impulse withs	stand voltage (between coil and contact)	10 000V min. $(1.2 \times 50 \mu\mathrm{s})$		
	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	Malfunction	10 to 55 to 10 Hz (double amplitude 1.5mm)		
Mechanical	resistance	Destruction	10 to 55 to 10 Hz (double amplitude 1.5mm)		
capability	Shock resistance	Malfunction	100m/s ²		
		Destruction	1000m/s ²		
	Mechanical endurance (at 180 times/min)	1 000 000 times min.			
Life	Electrical endurance		100 000 times min. (at rated load)		
	(at 20 times/min)				
Conditions for	Ambient temperature		-25°C to +70°C (no freezing and condensing at low temperature)		
operation	Ambient humidity		5% to 85%RH		
Mass			approx. 16g		

Notes: The above is the initial value.

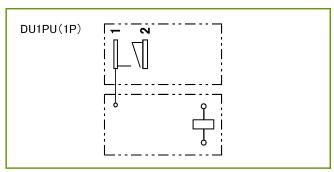




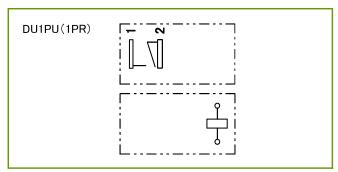
■ Dimensions



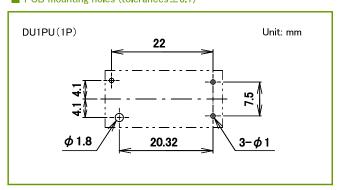
Schematics



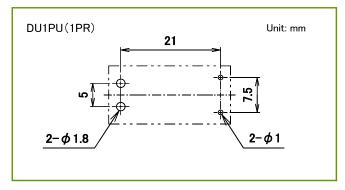
Schematics



■ PCB mounting holes (tolerances±0.1)



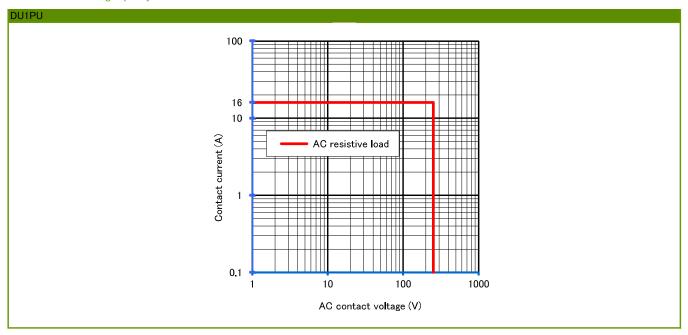
■ PCB mounting holes (tolerances±0.1)



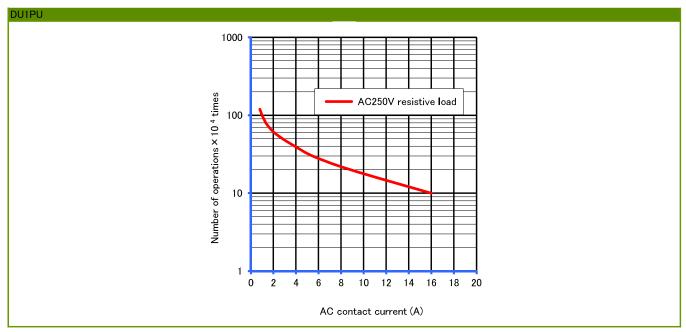
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Reference data

■ Maximum switching capacity



■ Durability curve



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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