

General Purpose Relay

505 Series



Part Number Description

505	-	①	②
① Contact Arrangement	2PL : 2N/O + 2N/C (LED)	4PL : 4N/O + 4N/C (LED)	
② Coil Voltage	12VDC	24VDC	100/110VDC
	12VAC 50/60 Hz	24VAC 50/60 Hz	
	100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz 220/240VAC 50/60 Hz

General Specification

Contact Ratings	Contact Form		2N/O + 2N/C	4N/O + 4N/C	
	Contact Material		Ag alloy (24K gold plate)		
	Maximum Contact Resistance		50mΩ		
	Rated Current (Resistance Load)		2N/O + 2N/C	4N/O + 4N/C	
			7A 30VDC	5A 30VDC	
			7A 250VAC	5A 250VAC	
	Maximum Switching Current		7A	5A	
	Maximum Contact Capacity	DC	210W	150W	
		AC	1,750VA	1,200VA	
Maximum Rated Voltage		125VDC / 250VAC			
Minimum Switching Current *		100mA 5VDC			
Coil Ratings	Coil Voltage		12VDC	24VDC	110VDC
			12VAC 50/60 Hz	24VAC 50/60 Hz	
			100/110VAC 50/60 Hz	110/120VAC 50/60 Hz	200/220VAC 50/60 Hz 220/240VAC 50/60 Hz
	Coil Consumption		DC Coil : 0.9W ~ 1.1W		
			AC Coil : 0.9VA ~ 1.2VA (60Hz)		
	Minimum Pick Up Voltage		80% of Nominal Voltage		
	Maximum Drop-out Voltage		10% of Nominal Voltage DC		
30% of Nominal Voltage AC					
General Ratings	Operating Time		20ms		
	Drop-out Time		20ms		
	Insulation Resistance		100MΩ at 500VDC		
	Dielectric Strength		Between Contact Points : 1,000Vrms 1 minute		
			Between Contact Points and Coil : 1,500Vrms 1 minute		
	Life Cycle		Mechanical : Min. 1,000,000		
			Electronic : Min. 200,000		
	Vibration Resistant		10 ~ 55Hz (width of vibration 1.5mm)		
	Ambient Temperature		-35 ~ +55°C (with no icing)		
	Ambient Humidity		30% ~ 80% RH		
Weight		Approx. 35g			

¹²³ Please refer to the attention section.


¹²⁴ Specifications and materials can be changed without prior notice for the enhancement of the quality.

* The minimum switching current is indicated as a standard value. The actual minimum Switching rate is variable factor according to the make and break frequency, environmental condition and anticipated credibility level. Therefore, it is recommended that tests be done to test actual load value before the production process.

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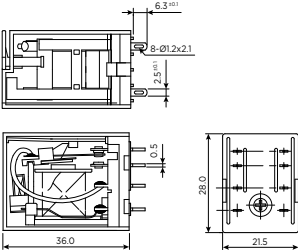
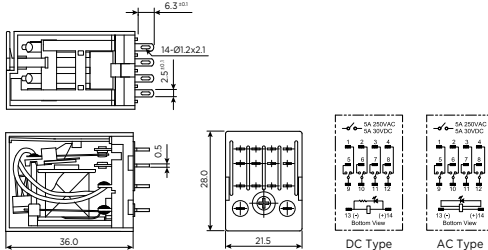
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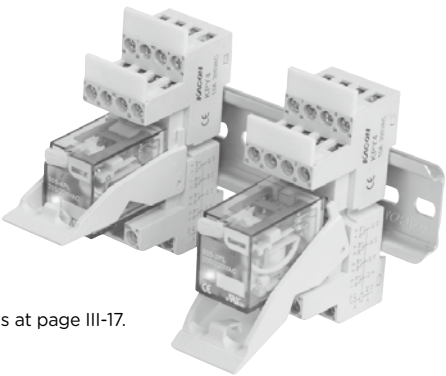
Product Selection

	Contact Form	Socket	Rated Voltage	Rated Voltage	Weight (g)
				Illumination	
	2Pole (2N/O + 2N/C)	KPY2	220VAC	505-2PL 220VAC	35g
		KPY22			
		KMY2	110VAC	505-2PL 110VAC	35g
		KMY2C			
		KMY2Q	24VAC	505-2PL 24VAC	35g
		KY08 (For soldering)			
		KY08-02 (For P.C Board)	110VDC	505-2PL 110VDC	35g
			24VDC	505-2PL 24VDC	35g
			12VDC	505-2PL 12VDC	35g
	4Pole (4N/O + 4N/C)	KPY4	220VAC	505-4PL 220VAC	35g
		KPY41			
		KMY4	110VAC	505-4PL 110VAC	35g
		KMY4C			
		KMY4Q	24VAC	505-4PL 24VAC	35g
		KMY4S			
		KY14 (For soldering)			
		KY14-02 (For P.C Board)	110VDC	505-4PL 110VDC	35g
			24VDC	505-4PL 24VDC	35g
			12VDC	505-4PL 12VDC	35g

Dimension

unit : mm

505-2PL	505-4PL
 <p> 6.3^(±0.1) 8-Ø1.2x2.1 2.5^(±0.1) 0.5 36.0 28.0 21.5 </p> <p> DC Type AC Type (Bottom View) </p>	 <p> 6.3^(±0.1) 14-Ø1.2x2.1 2.5^(±0.1) 0.5 36.0 28.0 21.5 </p> <p> DC Type AC Type (Bottom View) </p>



☞ Refer to the socket drawings at page III-17.