General Purpose Relay

HR705 Series



Part Number Description

HR705	•	0	0	0	0

Contact Arrangement	1P: 1N/O + 1N/C (Option)	2P: 2N/O + 2N/C	3P: 3N/O + 3N/C (Option)	4P:4N/O+4N/C	
2 Mounting & Terminal	No mark : Socket-plug-in,	Solder	P : PC Board-pin		
3 Option	No mark : Standard		L:LED	indicator (DC Coil : green, AC Coil : red	
	LD : LED indicator + freew	heeling Diode (DC)	LC : LED indicator + Built-in the Surge Adsorbent Circuit (AC)		
4 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 50/6	0 Hz 220/240VAC 50/60 Hz	

General Specification

	Contact Form		2N/O + 2N/C	4N/O + 4N/C			
	Contact Material		Ag alloy (24K gold pla	ete)			
	Maximum Contact	Resistance	Max. 50mΩ				
Contact Ratings	Rated Current		2N/O + 2N/C	4N/O + 4N/C			
	(Resistance Load)	-	5A 24VDC 5A 240VAC	5A 24VDC 5A 240VAC			
	Maximum Switching	g Current	5A	5A			
	Maximum Rated Vo	ltage	125VDC / 250VAC				
	Minimum Switching	Current *	100mA 5VDC				
			12VDC	24VDC	100/110VDC		
	Coil Voltage		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	
C-II D-N	Coil Consumption		DC Coils : Approx. 0.9W				
Coil Ratings			AC Coils : Approx. 0.9VA				
	Minimum Pick-up Voltage		80% of Nominal Volta	ge			
	Maximum Drop-out Voltage		10% of Nominal Voltage DC				
			30% of Nominal Volta	ge AC			
		Maximum Pick-up	20ms				
	Operating Time	Minimum Drop-out	20ms				
	Insulation Resistance		100MΩ at 500VDC				
			Between Contact Points : 1,000Vrms 1 minute				
	Dielectric Strength		Between Contact Points and Coil : 1,500Vrms 1 minute				
General Ratings			Mechanical : Min. 1,000,000				
	Life Cycle		Electrical: Min. 100,000				
	Vibration Resistant		10 - 55Hz (width of Vibration 1.5mm)				
	Ambient Temperati	ure	-35 - +55°C (with no icing)				
	Ambient Humidity		35% - 80% RH				
	Weight		Approx. 33g				

Please refer to the attention section.

^{*} 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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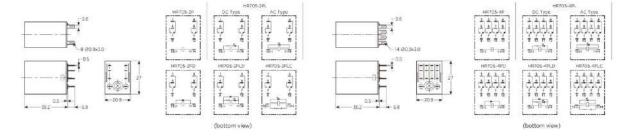
Specifications and materials can be changed without prior notice for the enhancement of the quality.

Product Selection

Part Number Rated Ilumination Weight Contact Form Socket Non-Illumination Illumination Surge Absorption CircuitI Voltage (g) 2 Pole KMY2 220VAC HR705-2P 220VAC HR705-2PL 220VAC HR705-2PLC 220VAC 33g (2N/O + 2N/C)**KY08** 110VAC HR705-2P 110VAC HR705-2PL 110VAC 33g (For soldering) KY08-02 24VAC 33g HR705-2P 24VAC HR705-2PL 24VAC (For P.C Board) 110VDC HR705-2P 110VDC HR705-2PL 110VDC 33g 24VDC HR705-2P 24VDC HR705-2PL 24VDC HR705-2PLD 24VDC 33g 12VDC HR705-2P 12VDC HR705-2PL 12VDC 33g 4 Pole KMY4 220VAC HR705-4P 220VAC HR705-4PL 220VAC HR705-4PLC 220VAC 33g (4N/O + 4N/C)KMY4S 110VAC HR705-4P 110VAC HR705-4PL 110VAC 33g KY14 (For soldering) 24VAC HR705-4P 24VAC HR705-4PL 24VAC 33g KY14-02 (For P.C Board) 110VDC HR705-4P 110VDC HR705-4PL 110VDC 33g 24VDC HR705-4P 24VDC HR705-4PL 24VDC HR705-4PLD 24VDC 33g 12VDC HR705-4P 12VDC HR705-4PL 12VDC 33g

Dimension (mm)

HR705-2P Series HR705-4P Series



 HR705 surge absorption circuit models contain a circuit to absorb with coil surge absorption diodes, and models with coil surge absorption varistor circuits were used in

It is suitable to apply where malfunctioning or disturbances are likely to happen in such devices as PLC.

- In case where relay Contact point (PLC relay output card) is tracked, damages on Contact points of other tracking devices are educed by absorbing surge and it is possible to use high priced equipment for a long period of time.
- Refer to the socket drawings at page III 23

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General Purpose Relay

HR710 Series



Part Number Description

Contact Arrangement	1P:1N/O+1N/C	2P: 2N/O + 2N/C	4P:4N/O+4N/C		
2 Mounting & Terminal	No mark : Blade-Style, S	Solder	: PC Board-pin (opti	on)	
3 Option	No mark : Standard			L : LED indicator	r (DC Coil : green, AC Coil : red)
	LD : LED indicator + free	ewheeling Diode (DC)		LC : LED indicato + Built-in the S	r iurge Adsorbent Circuit (AC)
◆ Coil Voltage	12VDC	24VDC	100/110	VDC	
	12VAC 50/60 Hz	24VAC 50/60 Hz			
	100/110VAC 50/60 Hz	110/120VAC 50/60) Hz 200/22	OVAC 50/60 Hz	220/240VAC 50/60 Hz

General Specification

	Contact Form		1N/O + 1N/C	2N/O + 2N/C	4N/O + 4N/C		
	Contact Material		Ag alloy (24K gold pla	ate)			
	Maximum Contact	Resistance	50mΩ				
Contact Ratings	D. 1. 1. C		1N/O + 1N/C	2N/O + 2N/C	4N/O + 4N/C		
	Rated Current (Resistance Load)		15A 24VDC 15A 220VAC	10A 24VDC 10A 220VAC			
	Maximum Switchin	g Current	15A	10A			
	Maximum Rated Vo	oltage	125VDC / 250VAC				
	Minimum Switching	Current *	100mA 5VDC				
			12VDC	24VDC	100/110VDC		
	Coil Voltage		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 Ratings	Coil Consumption		1P, 2P DC Coil = Approx. 0.9W / 4P DC Coil = Approx. 1.5W				
			1P, 2P AC Coil = Approx. 1.2VA / 4P AC Coil = Approx. 2.5VA				
	Minimum Pick-up V	oltage/	80% of Nominal				
	Maximum Drop Out Voltage		10% of Nominal Voltage DC				
			30% of Nominal Voltage AC				
	On susting Times	Maximum Pick-up	25ms				
	Operating Time	Minimum Drop-out	25ms				
	Insulation Resistan	ce	100MΩ at 500VDC				
	Distantiis Strongth		Between Contact Points : 1,000Vrms 1 Minute.				
	Dielectric Strength		Between Contact Points and coil : 1,500Vrms 1 Minute.				
General Ratings	Life Cuele		Mechanical : Min. 1,000,000				
	Life Cycle		Electrical: Min. 100,000				
	Vibration Resistant		10 ~ 55Hz (width of vibration 1.5mm)				
	Ambient Temperat	ure	-25 - + 55°C (with no icing)				
	Ambient Humidity		35% - 80% RH				
	Weight		2P : Approx. 33g , 4F	: Approx. 65g			

Please refer to the attention section.

^{*} 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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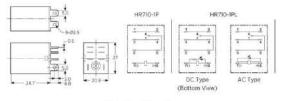
⁻ Specifications and materials can be changed without prior notice for the enhancement of the quality.

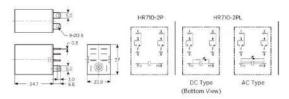
Product Selection

					Part N	umber		
	Contact Form	Socket	Rated Voltage	Non-Illumination	Illumination	1,000	nation ption Circuit	Weigh (g)
	1 Pole		220VAC	HR710-1P 220VAC	HR710-1PL 220VAC		HR710-1PLC 220VAC	33g
	(1N/O + 1N/C)		110VAC	HR710-1P 110VAC	HR710-1PL 110VAC			33g
Mc W			24VAC	HR710-1P 24VAC	HR710-1PL 24VAC			33g
HR710-2P			110VDC	HR710-1P 110VDC	HR710-1PL 110VDC			33g
ZAVOC S8.50Hz C€ △.5AL			24VDC	HR710-1P 24VDC	HR710-1PL 24VDC	HR710-1PLD 24VDC		33g
			12VDC	HR710-1P 12VDC	HR710-1PL 12VDC			33g
	2 Pole	KLY2	220VAC	HR710-2P 220VAC	HR710-2PL 220VAC		HR710-2PLC 220VAC	33g
	(2N/O + 2N/C)	(For soldering) KY08-0	110VAC	HR710-2P 110VAC	HR710-2PL 110VAC			33g
MCON			24VAC	HR710-2P 24VAC	HR710-2PL 24VAC			33g
HR710-2P		(For P.C Board)	110VDC	HR710-2P 110VDC	HR710-2PL 110VDC			33g
SEVOC SN. GOHE CE A. RU.			24VDC	HR710-2P 24VDC	HR710-2PL 24VDC	HR710-2PLD 24VDC		33g
			12VDC	HR710-2P 12VDC	HR710-2PL 12VDC			33g
1	4 Pole	KLY4	220VAC		HR710-4PL 220VAC		HR710-4PLC 220VAC	65g
	(4N/O + 4N/C)	KTF14A	110VAC		HR710-4PL 110VAC			65g
WITH AN			24VAC		HR710-4PL 24VAC			65g
CEARE			110VDC		HR710-4PL 110VDC			65g
			24VDC		HR710-4PL 24VDC	HR710-4PLD 24VDC		65g
			12VDC		HR710-4PL 12VDC			65g

Dimension (mm)

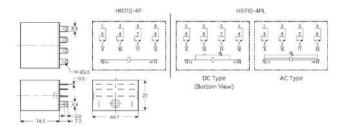
HR710-1P Series HR710-2P Series



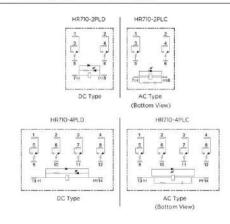


HR710-4P Series

HR710 (Surge Absorption type)



- HR710 surge absorption contains a circuit to absorb with coil surge absorption diodes, and models with coil surge absorption varistor circuits were used in. It is suitable to apply where malfunctioning or disturbances are likely to happen in such devices as PLC.
- In case where relay contact (PLC relay output card) is tracked, damages on contacts of other tracking devices are reduced by absorbing surge and it is possible to use high priced equipment for a long period of time.



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General Purpose Relay HR707N Series

Part Number Description

		E	65 <u></u> ,	W	050 05
HR707N	18	0	0	0	0

1 Contact Arrangement	2P: 2N/O + 2N/C	3P:3N/O+31	N/C			
2 Option	No mark : Standard (Mechanical indicator equipped)			L : LED Indicator (DC Coil : Green, AC Coil : Red)		
	LD : LED Indicator	LD : LED Indicator + Freewheeling Diode (DC)			ent Circuit (AC)	
3 Coil Voltage	12VDC	24VDC	100/110VDC			
	12VAC 50/60 Hz	24VAC 50/60 Hz	100/110/120VAC 50/60 H	z 200/220VAC 50/60 Hz	220/240VAC 50/60 Hz	

General Specification

seneral Spe	Cirication					
	Contact Form		2N/O + 2N/C	3N/O + 3N/C		
	Contact Form 2N/O + 2N/C 3N/O + 3N/C					
	Rated Current	Ag alloy (24K gold plate)				
Contact Ratings	(Resistance Load)		Ag alloy (24K gold plate) 50mΩ 2N/O + 2N/C 3N/O + 3N/C 10A 28VDC 10A 250VAC 10A 250VDC / 250VAC * 100mA 5VDC 12VDC 24VDC 12VAC 50/60 Hz 24VAC 50/60 Hz 100/110/120VAC 50/60 Hz 200/220VAC 50/60 Hz DC: 1.6W Approx. AC: 2.4VA Approx. 80% of Nominal 10% of Nominal Voltage DC 30% of Nominal Voltage AC 4aximum Pick-up 30ms 100MΩ at 500VDC Between Contact Points: 1,000Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute. Between Contact Points and Coil: 1,500Vrms for 1 minute.			
		Notice (Asserted • 1)	10A 250VAC			
	Maximum Switching Current Maximum Rated Voltage Minimum Switching Current * Coil Voltage Coil Consumption Minimum Pick-up Voltage	10A				
	Maximum Rated Volta	ge	Ag alloy (24K gold plate) SomΩ 2N/O + 2N/C 3N/O + 3N/C 10A 28VDC 10A 250VAC 10A 250VDC / 250VAC 10A 250VDC / 250VAC 12VDC 24VDC 12VAC 50/60 Hz 24VAC 50/60 Hz 100/110/120VAC 50/60 Hz 200/220VAC 50/60 Hz DC : 1.6W Approx. AC : 2.4VA Approx. 80% of Nominal 10% of Nominal Voltage DC 30% of Nominal Voltage AC Maximum Pick-up Minimum Drop-out 20ms 10MΩ at 500VDC Between Contact Points : 1,000Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute. Between Contact Points and Coil : 1,500Vrms for 1 minute.			
	Minimum Switching Cu	urrent *				
			12VDC	24VDC	100/110VDC	
	Coil Voltage		12VAC 50/60 Hz	24VAC 50/60 Hz		
Coil Ratings			100/110/120VAC 50/60 Hz	200/220VAC 50/60 Hz	220/240VAC 50/60 Hz	
	Call Communities		DC: 1.6W Approx.			
	Coll Consumption		AC: 2.4VA Approx.			
	Coil Consumption					
	Maximum Drop Out V	DC : 1.6W Approx.				
	Minimum Switching Current * Coil Voltage Coil Consumption Minimum Pick-up Voltage Maximum Drop Out Voltage Operating Time Minimum Drop Insulation Resistance Dielectric Strength	oitage	30% of Nominal Voltage AC			
	Operating Time	Maximum Pick-up	30ms			
	Operating Time	Minimum Drop-out	20ms			
	Insulation Resistance		100MΩ at 500VDC			
	Dielectric Strength		Between Contact Points : 1,000 Vrms for 1 minute.			
	Diciocario otrorigari		Between Contact Points and	d Coil : 1,500Vrms for 1 minu	te.	
General Ratings	Life Cvcle		Mechanical : Min. 10,000,000			
			Electrical: Min. 100,000			
	Vibration Resistant		10 ~ 55Hz width of vibration 1.5mm			
	ACUATION PRODUCTION AND ACCOUNT OF SHAREST SPECIAL STREET, ST.		92010188800 0-0018281A019401-0011100			
	Weight		Approx. 75g			

Please refer to the attention section.

^{*} The minimum switching current is indicated as a standard value. The actual mininum 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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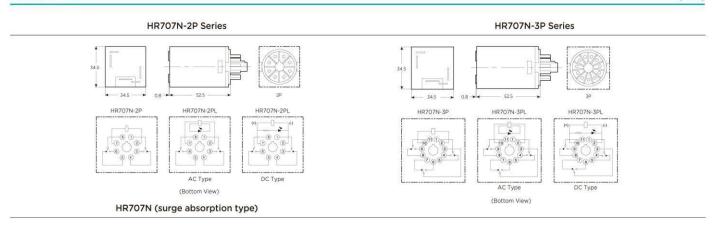


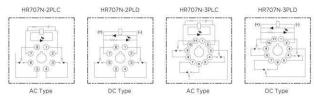
Specifications and materials can be changed without prior notice for the enhancement of the quality.

Product Selection

Part Number Rated Illumination Weight Voltage Non-Illumination Illumination Surge Absorption Circuit Contact Form Socket (g) 2 Pole KF083A HR707N-2PL 220VAC HR707N-2PLC 220VAC 220VAC HR707N-2P 220VAC 75g (2N/O + 2N/C)KPZ2 110VAC HR707N-2P 110VAC HR707N-2PL 110VAC 75g 110VDC HR707N-2P 110VDC HR707N-2PL 110VDC 75g 24VDC HR707N-2P 24VDC HR707N-2PL 24VDC HR707N-2PLD 24VDC 75g 3 Pole KF113A HR707N-3PLC 220VAC 220VAC HR707N-3P 220VAC HR707N-3PL 220VAC 75g (3N/O + 3N/C)110VAC HR707N-3P 110VAC HR707N-3PL 110VAC 110VDC HR707N-3P 110VDC HR707N-3PL 110VDC 75g 24VDC HR707N-3P 24VDC HR707N-3PL 24VDC HR707N-3PLD 24VDC 75g

Dimension (mm)





- HR707N surge absorption models contains a circuit to absorb the noises that are produced from relay while relay tracking. It is suitable to apply where malfunctioning or disturbances are likely to happen in such devices as PLC.
- In case where relay Contact point (PLC relay output card) is tracked, damages on Contact points of other tracking devices are reduced by absorbing surge and it is possible to use high priced equipment for a long period of time.

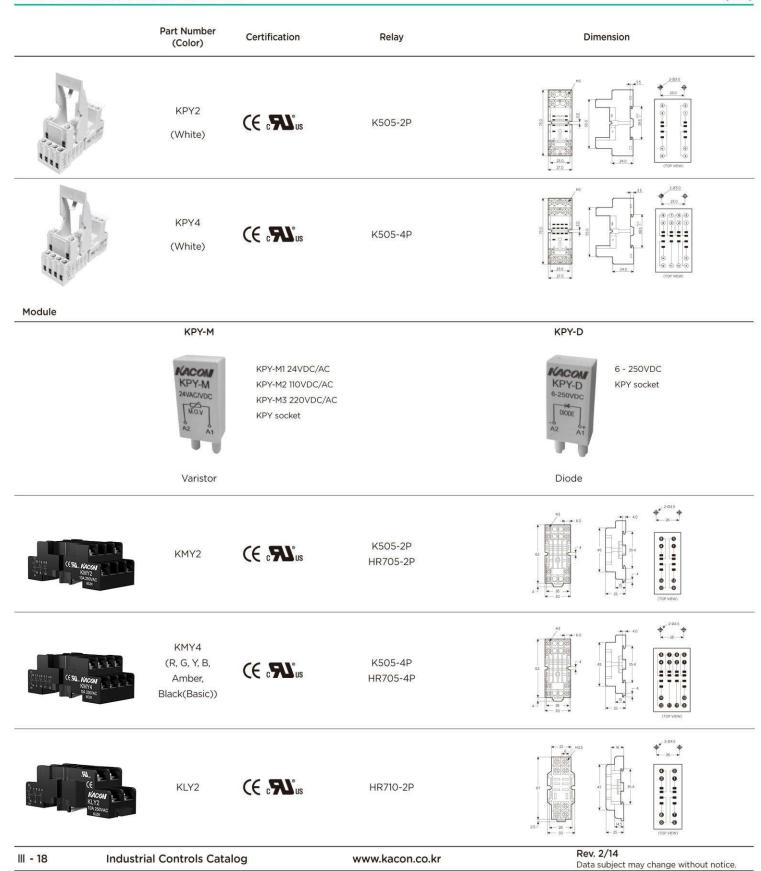
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Socket

Product Selection & Dimension

(mm)



Product Selection & Dimension

(mm)

	Part Number	Certification	Relay	Dimension
State Land Land Land Land Land Land Land Land	KLY4	(€ : ¶) 'us	HR710-4P	2041 00 00 00 00 00 00 00 00 00 00 00 00 00
	KTF14A	(€ : \$1 °us	HR710-4P	#4.0 mm #5.0
Moor 50.1 FF833 (4 *34.50%)	KF083A	(€ : ЯЗ °us	HR707N-2P	2045 2045
St. KACON KF112A KF12A K	KF113A	(€ : \$1) °us	HR707N-3P	3 HILES 2 2 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4
	KPZ2	(€ c 91 °us	HR707N-2P TTL TTS	20052 20
	KPZ3	(€ ₀ Я\) °us	HR707N-3P	275 110 C 110
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	Part Number	Certification	Relay	Dimension
	күов	C€	K505-2PL HR705-2P Soldering	25 ₁₀₂
	күп	C € : \$\2 `us	HR705-3P Soldering	75.8-02 000 000 000 000 000 000 000 000 000 0
	KY14	C€	K505-4P HR705-4P Soldering	25.8402 0000 0000 0000 0000 21.4 02 21.4 02 22.4 02 23.2 000 25.2 00
Micay Kyūs-02 Alv Kyūs-02 (C	KY08-02	C € c \$1 3°us	K505-2P HR705-2P PCB Type	25 d 102 d 100 v x m m 21 4 02 d 100 v x m m 21 4 02 d 100 v x m m 21 4 02 d 100 v x m m 21 4 02 d 100 v x m m 21 4 02 d 100 v x m m 21 4 0 d 100 v x m 21 4 0 d 100 v x m m 21 4 0 d 100 v x m m 21 4 0 d 100 v x m m 21 4 0 d 100 v x m m 21 4 0 d 100 v x m m 21 4 0 d 100 v x m m 21 4 0 d 100 v x m m 21 4 0 d 100 v x m m 21 4 0 d 100 v x m m 21 4
	KY11-02	C € : 3 2° s	HR705-3P PCB Type	25 8:02 00 00 00 00 00 00 00 00 00 00 00 00 0
	KY14-02	c€ : 247 : ∋)	K505-4P HR705-4P PCB Type	25 B ₁₀ 3 0000 0000 0000 0000 0000 0000 0000
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Product Selection & Dimension

(mm)

	Part Number	Certification	Relay	Dimension
MACON (E	KT08	C€	HR710-2P Soldering	25 8 to 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Astronomy Research	КТОВ-О	(€ . \$1)°us	HR710-2P PCB Type	25 Brc 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	K2CF08	(€ . \$\ °s	TTL	10A18 - 10A18 - 20A3 - 20A3 - 303me (100 WW)
	K2CF08K	C€	Waterlevel, FLR	70 10 10 10 10 10 10 10 10 10 10 10 10 10
	TAS (White)		TA -l a	22.8 200 200 200 200 200 200 200 200 200 20
	TRS (White)		TR-la	225 200 200 200 200 200 200 200 200 200
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Product Selection & Dimension

(mm)

	Part Number	Certification	Relay	Dimension
	KMY4S G (Green)	(€ ®oH\$)	K505-4P HR705-4P	20 31 20 32 32 32 32 32 32 32 32 32 32 32 32 32
	KCY4	(€ c 91 °us	K505-4P HR705-4P	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
	K2BF08	(€:\$\\\ us	TTL	27.5 B H3.5v6 37.0 27.0 27.0 27.0 27.0 27.0 27.0 27.0 2
F F F F	K2BF1I	C€	TTL	45.0 3 2 1 10 9 4 55.0 (Sinton Venu)

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