

# HA703 Series

**PCB Mount /  
High Breakdown**

## PRODUCT DESCRIPTIONS



The HA703 series provides a small form factor size of 65.5x15.0mm. It is designed with standard signal pins and coil pins layout. The HA703 series also has coil voltage options of 5.0/12.0/24.0V and dielectric strength options of 10.0/15.0KV and can be adopted to meet our customer's specific design requirements.

- Breakdown Voltage 10.0/15.0KV
- Contact Rating 50W
- Switching Voltage up to 10.0KV
- Carry Current 4.0A
- Reliability 10<sup>8</sup> Cycle

## SPECIFICATIONS



HA703 Series		HA703-110□□			HA703-115□□			
Parameters	Units	1 Form A						Test Conditions
<b>Coil Specifications</b>								
Nominal Coil Voltage	VDC	5.0	12.0	24.0	5.0	12.0	24.0	
Coil Resistance	Ω	45	250	1000	30	120	465	±10% @ 20°C
Operate Voltage	VDC Max	3.75	8.8	17.6	3.75	8.8	17.6	@ 20°C
Release Voltage	VDC Min	0.7	1.2	2.4	0.7	1.2	2.4	@ 20°C
<b>Contact Ratings</b>								
Switching Voltage	Volts	7500			10000			Max DC/Peak AC resistance
Switching Current	Amps	3.0			3.0			Max DC/Peak AC resistance
Carry Current	Amps	4.0			4.0			Max DC/Peak AC resistance(@30°C)
Contact Rating	Watts	50			50			Max DC/Peak AC resistance
Life Expectancy	x10 <sup>6</sup> Cycle	100			100			@ 1V 10mA
Contact Resistance	mΩ	200			200			Max initial @ operate voltage
Contact Resistance Stability	mΩ	20			20			Max initial @ operate voltage
<b>Relay Specifications</b>								
Insulation Resistance	Ω Min	10 <sup>13</sup>			10 <sup>13</sup>			Between contacts Contacts to coil @ 100V 20°C 65%RH
	Ω Min	10 <sup>13</sup>			10 <sup>13</sup>			
Dielectric Strength (Static)	VDC Min	10000			15000*			Between contacts Contacts to coil @ nominal coil voltage 100 Hz square wave Diode suppression
	VDC Min	10000			10000			
Operate Time (Including Bounce)	msec Max	3.0			3.0			
Release Time	msec Max	1.5			1.5			
<b>Measurement Reference Conditions</b>				<b>Environmental Ratings</b>				
Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa				Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's				

\* Terms/Conditions of Dielectric Strength: Polarity required as pin#1(+) and pin#2(-) for 15KV dielectric strength between contacts.

### Ordering Code:

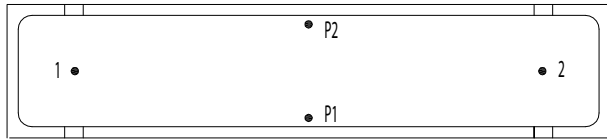
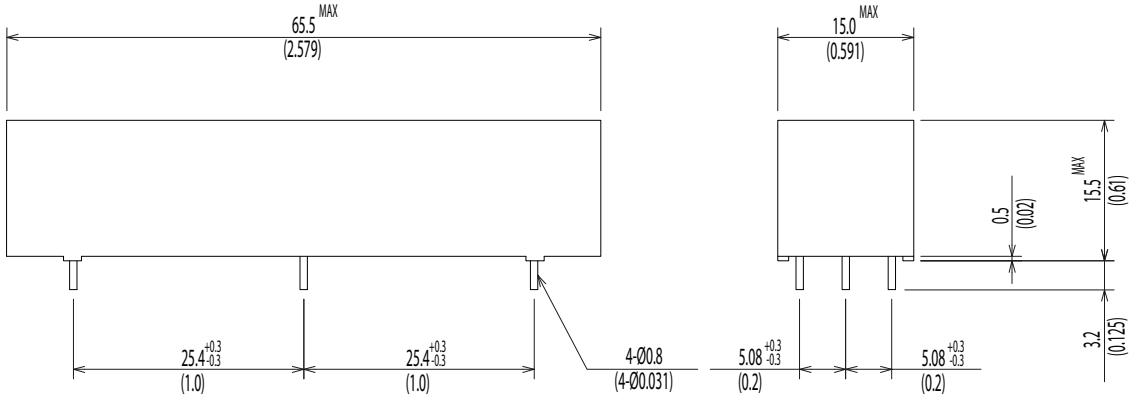
**HA703-110□□, HA703-115□□**

□□=05(5.0VDC), 12(12.0VDC), 24(24.0VDC)

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**Dimensions All Dimensions are mm (inch)**

**HA703-110/115**



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**Schematic <Top View>**

