

HA705 Series

**PCB Mount /
High Breakdown**

PRODUCT DESCRIPTIONS



The HA705 series is similar in design with the HA700 series with a dimension of 68.5x19.5mm. Differential signal pins and coil pins are designed in an inch layout with coil voltage options of 5.0/12.0/24.0V and dielectric strength options of 10.0/15.0KV. Thus, it can be adopted to follow 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 10⁸ Cycle



SPECIFICATIONS

HA705 Series		HA705-110□□			HA705-115□□			
Parameters	Units	1 Form A						Test Conditions
Coil Specifications								
Nominal Coil Voltage	VDC	5.0	12.0	24.0	5.0	12.0	24.0	±10% @ 20°C @ 20°C @ 20°C
Coil Resistance	Ω	45	250	1000	30	150	600	
Operate Voltage	VDC Max	3.75	8.8	17.6	3.75	8.8	17.6	
Release Voltage	VDC Min	0.7	1.2	2.4	0.7	1.2	2.4	
Contact Ratings								
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 ⁶ Cycle	100			100			@ 1V 10mA
Contact Resistance	mΩ	200			200			Max initial @ operate voltage
Contact Resistance Stability	mΩ	20			20			Max initial @ operate voltage
Relay Specifications								
Insulation Resistance	Ω Min	10 ¹³			10 ¹³			Between contacts Contacts to coil @ 100V 20°C 65%RH
	Ω Min	10 ¹³			10 ¹³			
Dielectric Strength (Static)	VDC Min	10000			15000*			Between contacts Contacts to coil
	VDC Min	10000			15000			
Operate Time (Including Bounce)	msec Max	3.0			3.0			@ nominal coil voltage 100 Hz square wave
Release Time	msec Max	1.5			1.5			Diode suppression
Measurement Reference Conditions				Environmental Ratings				
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.

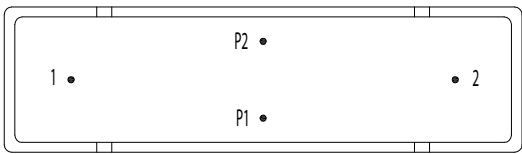
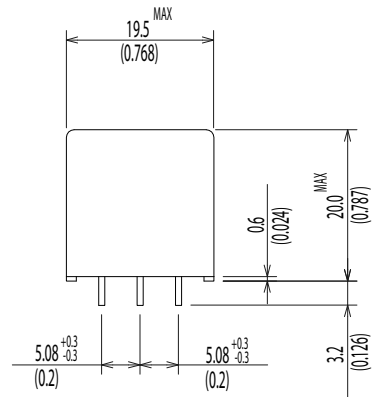
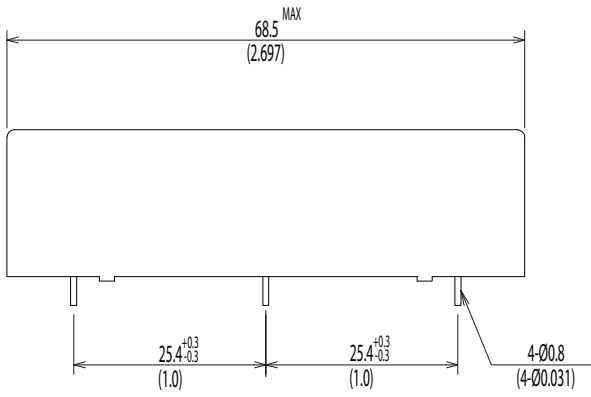
Ordering Code:

HA705-110□□, HA705-115□□

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

Dimensions All Dimensions are mm (inch)

HA705-110/115



Schematic <Top View>

