

CUPP RELAYS



CUPP Series Relays

The CUPP Series has become a standard in the European relay market due to its versatile switch and schematic options. The staggered pin layout gives more space and allows for higher isolation from pin to pin on the PC board when compared to 1.0" x 0.1" relays. Designers have a choice between two switch technologies: ruthenium sputtered dry reed and the vertically mounted high performance Hg wetted contact.

CUPP Series Features

- ▶ Standard nominal coil voltages include 5, 12, and 24 volts
- ▶ Designed to meet the most stringent telecommunications specification on a worldwide basis
- ▶ Ideal for optional high isolation between input & output (up to 4000Vrms)
- ▶ Custom multi-pole contact forms available

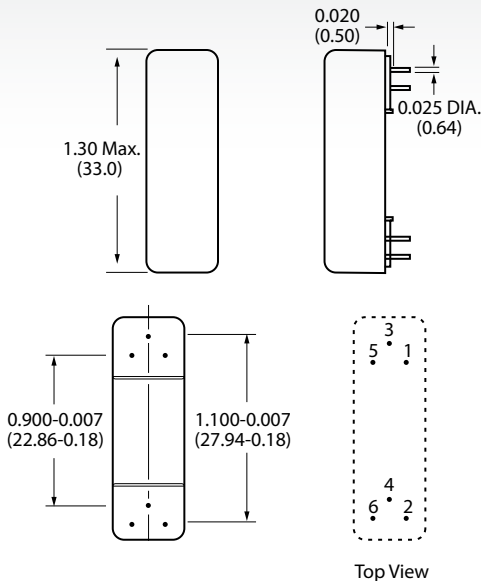
APPLICATIONS

- ▶ Telecom
- ▶ Process control
- ▶ General purpose electronics
- ▶ Industrial
- ▶ Security

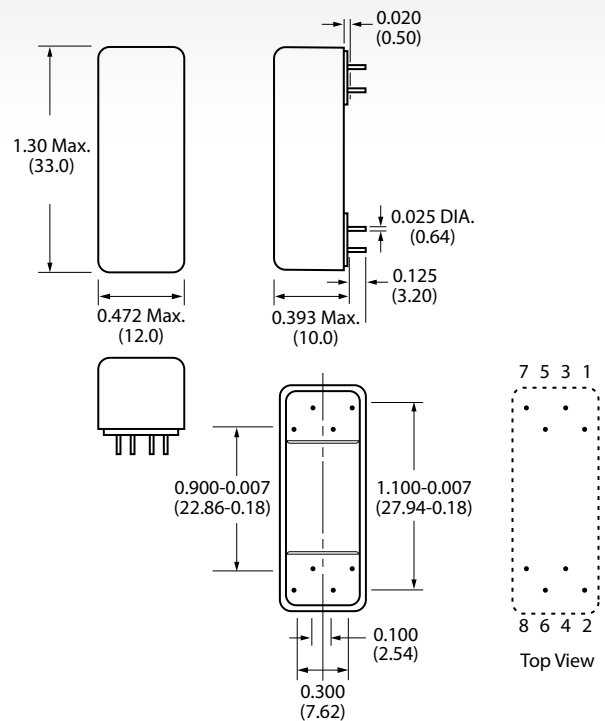
DIMENSIONS

in Inches (Millimeters)

CUPP 1A



CUPP 2A



NOTE

- ▶ Relays with Hg Wetted option must be mounted vertically $\pm 30^\circ$

Ordering Information

Part Number **CUP-X-XXXX-X-XX**

Model Number

P = Metal cover fully sealed

Contact Form

001A = 1 Form A

002A = 2 Form A

Nominal Voltage

05 = 5V

12 = 12V

24 = 24V

Switch Type

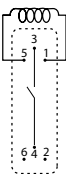
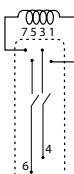
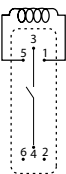
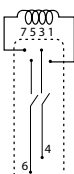
1 = Dry Reed

5 = HG Wetted

07082013

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CUPP			Dry Reed						Hg Wetted																	
Parameters	Test Conditions	Units	1A			2A			1A			2A														
COIL SPECIFICATIONS																										
Nom. Coil Voltage		VDC	5	12	24	5	12	24	5	12	24	5	12	24												
Max. Coil Voltage		VDC	12	29	57	9	23	45	11	26	39	9	23	35												
Coil Resistance	+/- 10% (25°C)	Ohms	140	855	3285	70	445	1700	105	620	1400	70	420	1080												
Operate Voltage	Must Operate by	VDC - Max.	3.5	8.4	16.8	3.5	8.4	16.8	3.5	8.4	16.8	3.5	8.4	16.8												
Release Voltage	Must Release by	VDC - Min.	0.28	0.7	1.4	0.25	.65	1.3	0.5	1.2	1.9	0.5	1.3	2.2												
CONTACT RATINGS																										
Switching Voltage	Max DC/Peak AC Resist.	Volts	200			200			1000			1000														
Switching Current	Max DC/Peak AC Resist.	Amps	0.75			0.75			2			2														
Carry Current	Max DC/Peak AC Resist.	Amps	1.5			1.5			4			4														
Contact Rating (Resistive Load)	Max DC/Peak AC Resist.	Watts	10			10			50			50														
Life Expectancy	Signal Level 1.0V 10,mA	x10 ⁶ Ops.	500			500			2000			2000														
Static Contact Resistance	50mV/10mA	mOhms	200			200																				
RELAY SPECIFICATIONS																										
Insulation Resistance (minimum)	Across Open Contacts Contact to Coil	Ohms	10 ¹⁰			10 ¹⁰			10 ⁸			10 ⁸														
		Ohms	10 ¹⁰			10 ¹⁰			10 ¹⁰			10 ¹⁰														
Capacitance - Typical	Across Open Contacts	pF	1			1			12			12														
	Open Contact to Coil	pF	2.5			2.5			2			2														
	Closed Contact to Coil	pF	5			5			5			5														
Dielectric Strength (minimum)	Across Open Contacts Contacts to Coil	VDC/Peak VDC/Peak	350 2800			350 2800			2000 2800			2000 2800														
Operate Time - (including bounce)	At Nominal Coil Voltage, 10 Hz Square Wave	ms	0.55			0.55																				
Release Time - Typical		ms	0.5			0.5			1.5			1.5														
All parameters are measured at 25°C unless otherwise stated.			 Top View						 Top View						 Top View						 Top View					

Environmental Ratings:

Storage Temp: -40°C to +105°C; *Operating Temp:* -38°C to +85°C; *Solder Temp:* 270°C max; 10 sec. max

All electrical parameters measured at 25°C unless otherwise specified.

Vibration: 20 G's to 2000 Hz; *Shock:* 50 G's

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