

## 15 AMP MINIATURE PC BOARD RELAY

### FEATURES

- High performance
- Low seated height
- Flux tight and sealed versions available
- Class F insulation (155°C) system available
- Class B Insulation (130°C) standard
- UL, CUR file E43203



### CONTACTS

<b>Arrangement</b>	SPST - N.O. (1 Form A) SPST - N.C. (1 Form B) SPDT (1 Form C)
<b>Ratings</b>	Form A, B and C Max. switched power: 210W or 1800VA Max. switched current: 15A (AC), 7A (DC) Max. switched voltage: 30VDC or 277VAC
<b>Rated Load UL/CUR</b>	1 Form A 15A at 120VAC 100,000 cycles TV - 5 120VAC  1 Form B NC (Class F Only) 8.3A at 120VAC, 1000VA, 90°C Ballast 3.6A at 277VAC, 1000VA, 90°C Ballast 8A at 120VAC, 10k cycles, 80°C Electronic Ballast 3A at 277VAC, 10k cycles, 80°C Electronic Ballast  1 Form B NC (Class B Only) 15A at 120VAC, 1800VA, 25°C Ballast 6.5A at 277VAC, 1800VA, 25°C Ballast  1 Form C 10A at 120VAC 100,000 cycles N.O. 10A at 120VAC 50,000 cycles N.C.
<b>Material</b>	Silver tin oxide (gold plating available)
<b>Resistance</b>	< 100 milliohms initially (6V, 1A voltage drop method)

### COIL

<b>Power</b> <b>At Pickup Voltage</b> <b>Max Continuous</b> <b>Dissipation</b>	203mW 0.6W at 20°C (68°F)
<b>Temperature Rise</b> (at nominal coil voltage)	27°C (49°F)
<b>Temperature</b>	Max. 130°C (266°F)

### GENERAL DATA

<b>Life Expectancy</b> <b>Mechanical</b> <b>Electrical</b>	1 x 10 <sup>6</sup> 1 x 10 <sup>5</sup> at 10A, 120VAC Res.
<b>Operate Time</b>	10ms max.
<b>Release Time</b>	5ms max. (with no coil suppression)
<b>Dielectric Strength</b> (at sea level for 1 min.)	1500Vrms contact to coil 1000Vrms across contacts
<b>Insulation Resistance</b>	100 megohms min. at 500VDC, 50% RH
<b>Dropout</b>	Greater than 10% of nominal coil voltage
<b>Ambient Temperature</b> <b>Operating</b> <b>Storage</b>	At nominal coil voltage -40°C(-40°F) to 70°C(158°F) -40°C(-40°F) to 130°C(266°F)
<b>Vibration</b>	0.062" DA at 10–55 Hz
<b>Shock</b>	10 g
<b>Enclosure</b>	P.B.T. polyester
<b>Terminals</b>	Tinned copper alloy, P.C.
<b>Max. Solder Temp.</b>	270°C (500°F)
<b>Max. Solder Time</b>	5 seconds
<b>Max. Solvent Temp.</b>	80°C (176°F)
<b>Max. Immersion Time</b>	30 seconds
<b>Weight (Approx)</b>	13 grams

### NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than "Must Operate" value.
3. Unsealed relays should not be dip cleaned.
4. Specifications subject to change without notice.

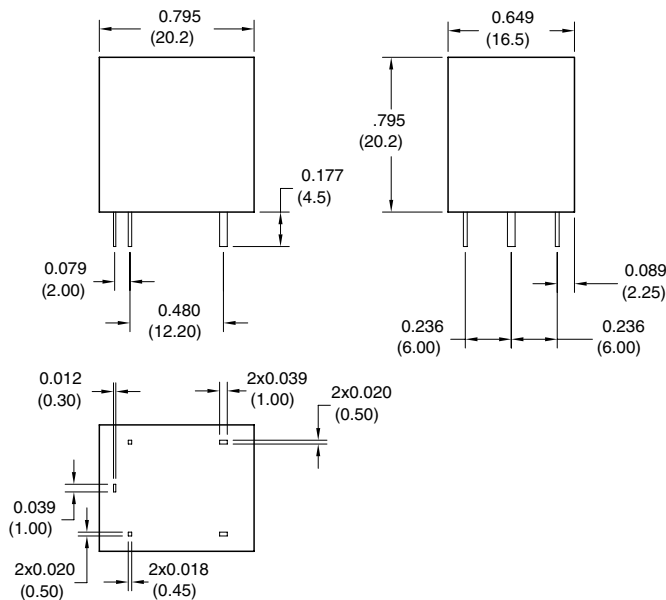
## RELAY ORDERING DATA

STANDARD RELAYS				ORDER NUMBER*	
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Max. Continuous VDC	Coil Resistance	Must Operate VDC	1 Form A (SPST-N.O.)	1 Form C (SPDT)
3	3.9	25 $\pm$ 10%	2.3	AZ932-1AH-3D	AZ932-1CH-3D
5	6.5	70 $\pm$ 10%	3.8	AZ932-1AH-5D	AZ932-1CH-5D
6	7.8	100 $\pm$ 10%	4.5	AZ932-1AH-6D	AZ932-1CH-6D
9	11.7	225 $\pm$ 10%	6.8	AZ932-1AH-9D	AZ932-1CH-9D
12	15.6	400 $\pm$ 10%	9.0	AZ932-1AH-12D	AZ932-1CH-12D
18	23.4	900 $\pm$ 10%	13.5	AZ932-1AH-18D	AZ932-1CH-18D
24	31.2	1,600 $\pm$ 15%	18.0	AZ932-1AH-24D	AZ932-1CH-24D
48	62.4	4,500 $\pm$ 15%	36.0	AZ932-1AH-48D	AZ932-1CH-48D

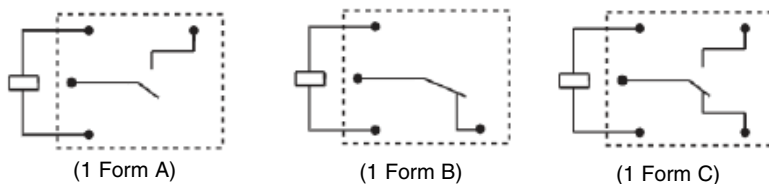
\*Add suffix "E" for epoxy sealed version. Add suffix "F" for Class F insulation system. Add suffix "G" for gold plated contacts. Substitute "1BH" in place of "1AH" to indicate 1 Form B.

## MECHANICAL DATA

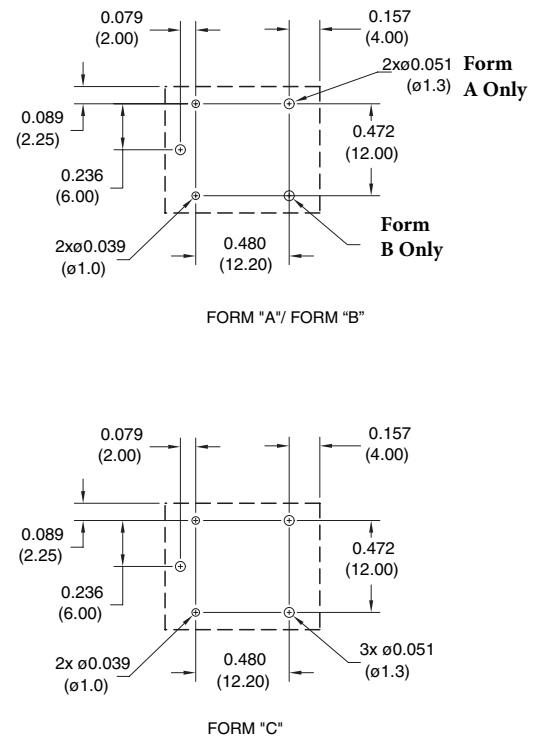
### Outline Dimensions



### Wiring Diagram



### PC Board Layout



### View Toward Terminals

Dimensions in inches with metric equivalents in parentheses. Tolerance:  $\pm .010$ "

# AMERICAN ZETTLER, INC.

9/29/16

PHONE: (949) 831-5000

[www.azettler.com](http://www.azettler.com)

E-MAIL: [SALES@AZETTLER.COM](mailto:SALES@AZETTLER.COM)

This specification provides an overview of the most significant part features. Any individual applications and operating conditions are not taken into consideration. It is recommended to test the product under application conditions. Responsibility for the application remains with the customer. Proper operation and service life cannot be guaranteed if the part is operated outside the specified limits.