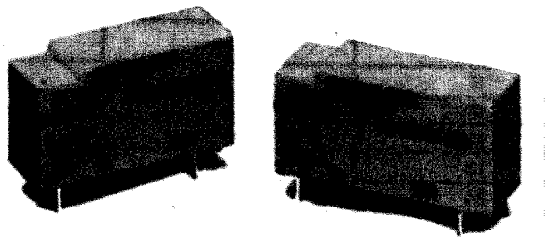
AZ 696 10 AMP SUBMINIATURE POWER RELAY

Features

- Subminiature Size for High-Density Packaging
- High Sensitivity to 100mW
- 4,000Vrms Dielectric Strength
- Isolation Spacing Greater Than 8mm
- Epoxy Sealed for Automatic Wave Soldering
- 10 Amp Switching Capability
- Single Pole – Forms A & C Available
- UL File E44211
- CSA File LR 85091
- Approvals/Standards Also Include VDE, IEC, SEMKO & CEE



Specifications

Contacts

Arrangement	SPDT (1 Form C) & SPST (1 Form A)
Rating	Noninductive load
Light Duty	Max switched power: 300W or 2,000VA Max switched current: 10 Amps Max switched voltage: 150VDC* or 300VAC
UL Rating	10A @ 30VDC 10A @ 250VAC general purpose 1/4 HP 120 VAC 1/2 HP 250 VAC B 300 Pilot Duty
Material	Silver Cadmium Oxide
Resistance	50 milliohms initially (at rated current)

Coil

Power at Pickup Voltage	100mW (typical)
Max Continuous Dissipation	1.5W @ 20C (68F) ambient 1.2W @ 40C (104F) ambient
Temperature Rise	20C (68F) at nominal coil voltage
Temperature	110C (230F) Maximum

General Data

Life Expectancy	Minimum operations
Mechanical	10,000,000
Electrical	100,000 at rated load
Operate Time	10ms at nominal coil voltage (typical)
Release Time (typical)	1 ms at nominal coil voltage with no coil suppression
Dielectric Strength	4,000Vrms coil to contact (at sea level)
Insulation Resistance	1,000 megohms min @ 20C (68F), 500VDC, 50% RH
Dropout	> 10% of nominal coil voltage
Ambient Temp (operating)	At nominal coil voltage -40C (-40F) to 70C (158F)
(storage)	-40C (-40F) to 110C (230F)
Vibration	0.062" DA @ 10-55 Hz
Shock	20g
Enclosure	P.B.T. Polyester
Terminals	Tinned copper alloy, P.C.
Max Solder Temp	270C (518F)
Max Solder Time	5 seconds
Solvent Temp	60C (176F) maximum
Immersion Time	30 seconds maximum
Weight	14 grams

International Approvals

Germany	VDE 0435/09.72 at 8 Amps VDE 0631/12.83 at 8 Amps VDE 0700/1/2.81 at 8 Amps

Notes

1 All values at 20C (68F) unless otherwise indicated
2 Relay will pull in with less than "Must Operate" value
3 Specifications are subject to change without notice

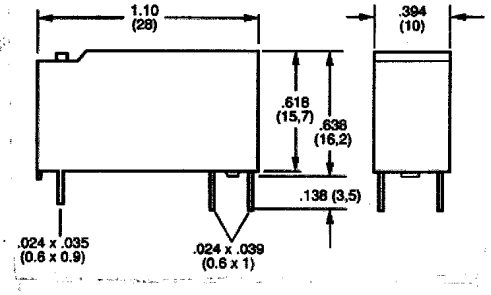
Relay Ordering Data

Standard Relays

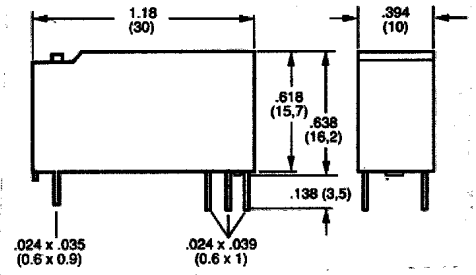
Coil Specifications				ORDER NUMBER	
Coil VDC nominal	Max VDC continuous	Coil Resistance	Must Operate VDC	1 Form A (SPST-NO)	1 Form C (SPDT)
5	12	110	3.5	AZ 696-1A-5DE	AZ 696-1C-5DE
6	14	160	4.2	AZ 696-1A-6DE	AZ 696-1C-6DE
12	29	660	8.4	AZ 696-1A-12DE	AZ 696-1C-12DE
24	54	2,200	16.8	AZ 696-1A-24DE	AZ 696-1C-24DE
48	102	8,000	33.6	AZ 696-1A-48DE	AZ 696-1C-48DE

Mechanical Dimensions

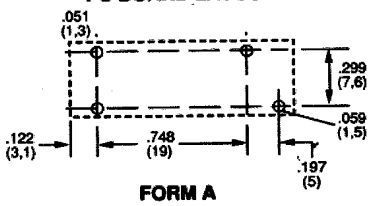
FORM A



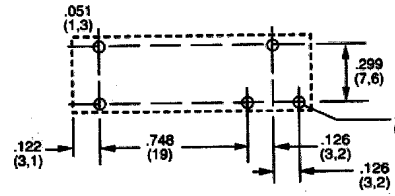
FORM C



PC BOARD LAYOUT

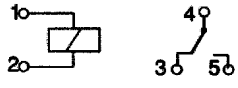


FORM A



FORM C

WIRING DIAGRAM



Dimensions in inches with metric equivalents in parentheses. Tolerance is 0.010"