AZ987

30 AMP SUBMINIATURE POWER RELAY FOR AUTOMOTIVE USE

FEATURES

- Low Cost
- Up to 30 Amp switching capability in a compact size
- Small footprint
- 1 Form A and C contacts available
- Vibration and shock resistant
- Designed for high in-rush applications
- Epoxy sealed

CONTACTS

Arrangement	SPST (1 Form A) SPDT (1 Form C)
Ratings	Resistive load: Max. switched power: 480 W Max. switched current: 30 A Max. switched voltage: 30 VDC Rated load: 30 A at 16 VDC
Material	Silver tin oxide, silver nickel (AgNi 0.15)
Resistance	< 50 milliohms initially (6 V, 1 A voltage drop method)

COIL

Power	
At Pickup Voltage (typical)	187 mW
Max. Continuous Dissipation	2.6 W at 20°C (68°F) ambient
Temperature Rise	60°C (108°F) at nominal coil voltage
Max Temperature	155°C (311°F)

GENERAL DATA

Life Expectancy **Mechanical** **Electrical**	Minimum operations 1 x 10^6 3 x 10^5 at 20 A 14 VDC Res.
Operate Time	3 ms typical at nominal coil voltage
Release Time	1.5 ms typical at nominal coil voltage (with no coil suppression)
Dielectric Strength **(at sea level for 1 min.)**	500 Vrms coil to contact 500 Vrms between open contacts
Insulation Resistance	100 megohms min. at 20°C, 500 VDC 50% RH
Dropout	Greater than 12.5% of nominal coil voltage
Ambient Temperature **Operating** **Storage**	At nominal coil voltage -40°C (-40°F) to 85°C (185°F) -40°C (-40°F) to 105°C (221°F)
Vibration	6 g at 10-500 Hz
Shock	30 g, 6 ms
Enclosure	P.B.T. polyester
Terminals	Tinned copper allloy, P.C.
Weight	4 grams

NOTES

1. All values at 20°C (68°F).
2. Relay may pull in with less than “Must Operate” value.
3. Specifications subject to change without notice.

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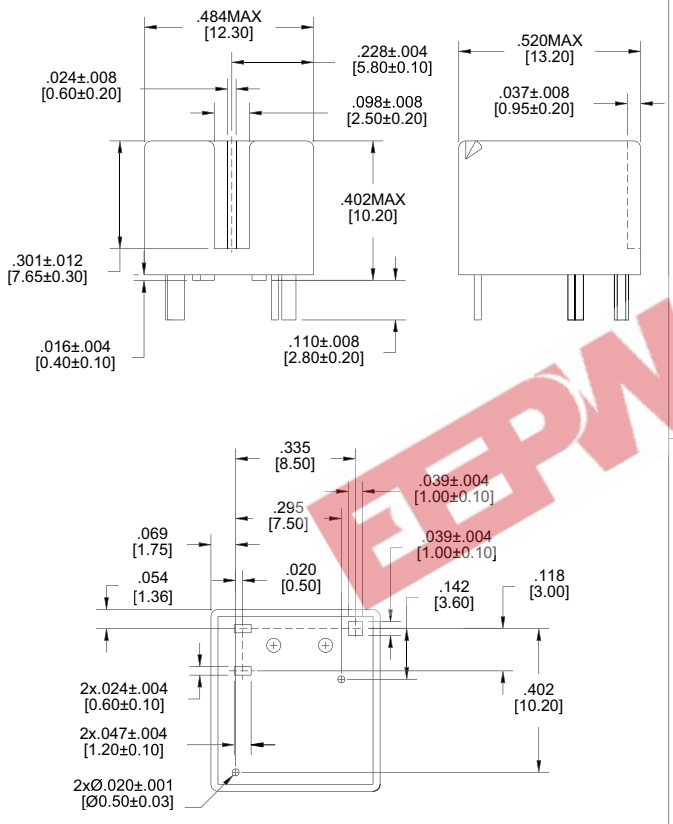
RELAY ORDERING DATA

STANDARD RELAYS					
COIL SPECIFICATIONS				ORDER NUMBER*	
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance ± 10%	Form A (SPST)	Form C (SPDT)
10	5.7	22.0	181	AZ987–1A–10DE	AZ987–1C–10DE
12	6.9	26.0	254	AZ987–1A–12DE	AZ987–1C–12DE

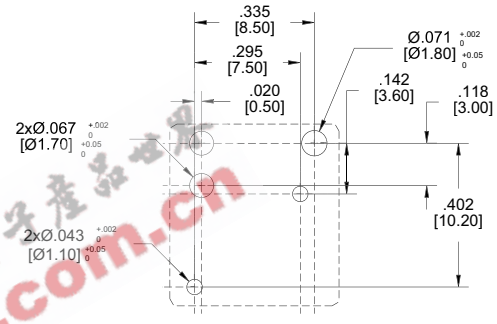
*Add suffix “T” for silver tin oxide.

MECHANICAL DATA

OUTLINE DIMENSIONS

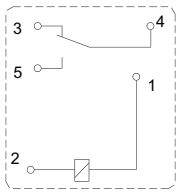


PC BOARD LAYOUT



VIEWED TOWARD TERMINALS

WIRING DIAGRAM



VIEWED TOWARD TERMINALS

Dimensions in inches with metric equivalents in parentheses. Tolerance: ± .010"

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