AZ987

30 AMP MICRO AUTOMOTIVE RELAY

FEATURES

- Up to 30 Amp switching capability in a compact size
- Form A and Form C contacts available
- Single and Dual (Twin) relay versions
- Designed for high in-rush applications
- Epoxy sealed
- ISO/TS 16949, ISO 9001, ISO 14000
- Tested in accordance with J2544

CONTACTS

Arrangement	SPST (1 Form A) DPST (2 Form A) SPDT (1 Form C) DPDT (2 Form C)
Ratings	Resistive load: Max. switched power: 480 W Max. switched current: 30 A / 25 A (N.O. / N.C.) Max. switched voltage: 16 VDC Rated load: 30 A at 16 VDC
Material	Silver tin oxide
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	34°C (61°F) at nominal coil voltage
Max Temperature	155°C (311°F)

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.

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 105°C (221°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 / 8 grams (Single / Twin)
Max. Solder Temp.	260°C (500°F)
Max. Solder Time	5 seconds
Max. Solvent Temp.	80°C (176°F)
Max. Immersion Time	30 seconds
Packing unit in pcs **Single** **Twin**	 25 per plastic tube / 2000 per carton box 10 per plastic tube / 1000 per carton box

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This product specification to be used only together with the application notes which can be downloaded from http://www.ZETTLERelectronics.com/pdfs/relais/ApplicationNotes.pdf

2012-05-24

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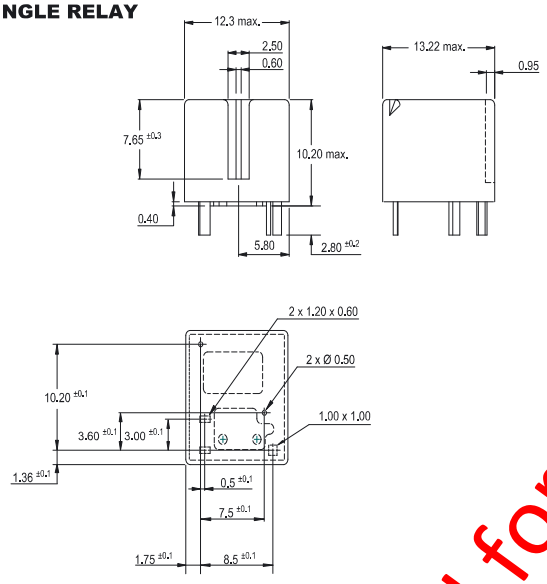
RELAY ORDERING DATA

COIL SPECIFICATIONS					
Nominal Coil VDC	Must Operate VDC	Max. Continuous VDC	Coil Resistance Ohm ± 10%	ORDER NUMBER*	
				Form A (DPST)	Form C (DPDT)
6	3.5	13.2	63	AZ987-1A-6DT	AZ987-1C-6DT
10	5.7	22.0	181	AZ987-1A-10DT	AZ987-1C-10DT
12	6.9	26.0	254	AZ987-1A-12DT	AZ987-1C-12DT

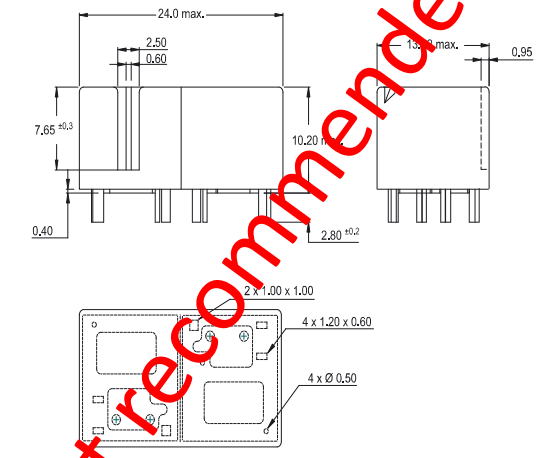
* Substitute “1A” or “1C” with “2A” or “2C” to indicate Twin relay.
Substitute “DT” with “DET” for epoxy sealed version.

MECHANICAL DATA

SINGLE RELAY

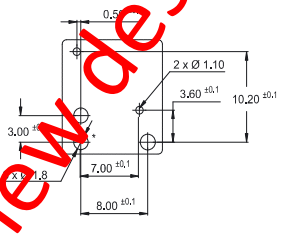


TWIN RELAY



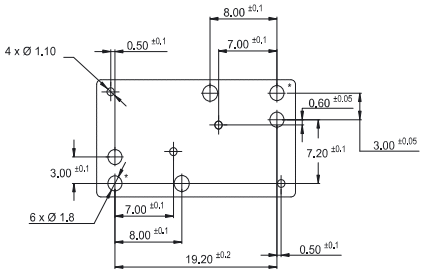
PC BOARD LAYOUTS

SINGLE RELAY



* not used on 1 Form A version

TWIN RELAY

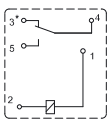


* not used on 2 Form A version

Viewed toward component side

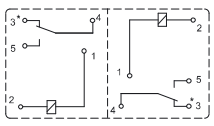
WIRING DIAGRAMS

SINGLE RELAY



* not used on 1 Form A version

TWIN RELAY



* not used on 2 Form A version

Viewed toward terminals

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