

#### FEATURES:

- Switching capacity up to 25A
- Small size and light weight
- PCB pin and quick connect mounting available
- Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing



CTA1

22.8 x 15.3 x 25.8 mm

### **CONTACT DATA**

Contact Arrangement	1A = SPST N.O.
	1C = SPDT
Contact Rating	1A: 25A @ 14VDC
	1C: 20A @ 14VDC
Contact Resistance	< 50 milliohms initial
Contact Material	AgSnO <sub>2</sub>
Maximum Switching Power	350W
Maximum Switching Voltage	75VDC
Maximum Switching Current	25A

# **COIL DATA**

$\begin{tabular}{ c c c c c } \hline Coil Voltage & Coil Resistance \\ VDC & $\Omega \pm 10\%$ \end{tabular}$			Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms	
Rated Max. 1.2W 1.5W		75% of rated voltage	10% of rated voltage					
	-			5				
6	7.8	30	24	4.2	0.6			
12	15.6	120	96	8.4	1.2			
24	31.2	480	384	16.8	2.4	1.2 or 1.5	10	7
48	62.4	1920	1536	33.6	4.8			

#### CAUTION:

- 1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.
- 2. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

### **GENERAL DATA**

Electrical Life @ rated load	100K cycles, typical
Mechanical Life	10M cycles, typical
Insulation Resistance	100MΩ min @ 500VDC
Dielectric Strength, Coil to Contact	2500V rms min. @ sea level
Contact to Contact	1500V rms min. @ sea level
Shock Resistance	100m/s <sup>2</sup> for 11ms
Vibration Resistance	1.27mm double amplitude 10-40Hz
Terminal (Copper Alloy) Strength	8N (Quick Connect), 4N (PCB Pins)
Operating Temperature	-40 °C to + 85 °C
Storage Temperature	-40 °C to + 155 °C
Solderability	230 °C $\pm$ 2 °C $$ for 10 $\pm$ 0.5s
Weight	18.5g

#### Distributor: Electro-Stock www.electrostock.com

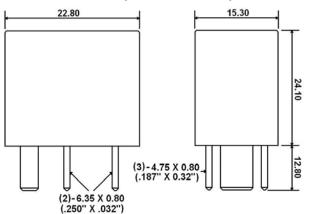
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### **ORDERING INFORMATION**

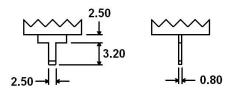
CTA1

ORDERING INFORMATION								
1. Series: CTA1	CTA1	1A	S	Q	12	1.2	_	
2.Contact Arrangement: 1A=SPST N.O. 1C=SPDT								
3. Sealing Options: S = Sealed C = Dust Cover								
<b>4. Termination:</b> P = PCB Pins Q = Quick Connect								
5. Coil Voltage: 6VDC 12VDC 24VDC 48VDC								
6. Coil Power: 1.2 = 1.2W 1.5 = 1.5W								
7. Coil Suppression: Blank = Standard D = Diode (1N4005) R = Resistor (680 Ohms)								
** Consult factory if other values are needed.								

### **DIMENSIONS (Units = mm)**



## PC PIN DIMENSIONS (Units = mm)



## SCHEMATICS & PC LAYOUT (BOTTOM VIEWS)

