

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



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 ₂ |
| Maximum Switching Power | 350W |
| Maximum Switching Voltage | 75VDC |
| Maximum Switching Current | 25A |

COIL DATA

| Coil Voltage VDC | | Coil Resistance $\Omega \pm 10\%$ | | 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 | | | |
| 6 | 7.8 | 30 | 24 | 4.2 | 0.6 | 1.2 or 1.5 | 10 | 7 |
| 12 | 15.6 | 120 | 96 | 8.4 | 1.2 | | | |
| 24 | 31.2 | 480 | 384 | 16.8 | 2.4 | | | |
| 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.

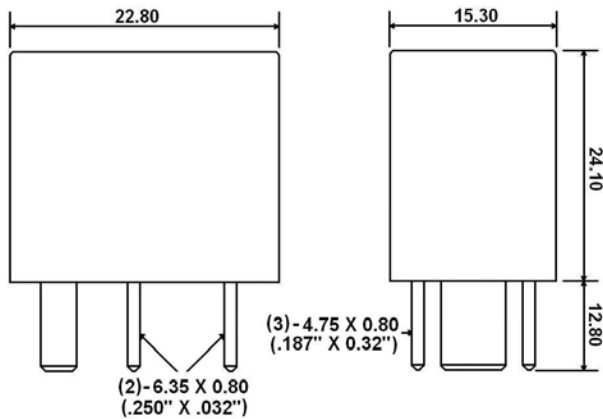
GENERAL DATA

| | |
|--------------------------------------|-------------------------------------|
| Electrical Life @ rated load | 100K cycles, typical |
| Mechanical Life | 10M cycles, typical |
| Insulation Resistance | 100M Ω min @ 500VDC |
| Dielectric Strength, Coil to Contact | 2500V rms min. @ sea level |
| Contact to Contact | 1500V rms min. @ sea level |
| Shock Resistance | 100m/s ² 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 |

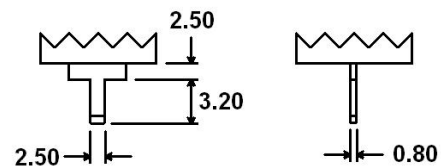
ORDERING INFORMATION

| | | | | | | | |
|--|------|----|---|---|----|-----|--|
| 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 | | | | | | | |
| 4. Termination: 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. | | | | | | | |

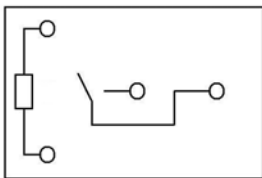
DIMENSIONS (Units = mm)



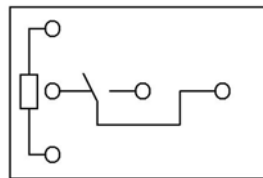
PC PIN DIMENSIONS (Units = mm)



SCHEMATICS & PC LAYOUT (BOTTOM VIEWS)



1A



1C

