

Astralux SUB MINIATURE SIL REED RELAYS Series 160

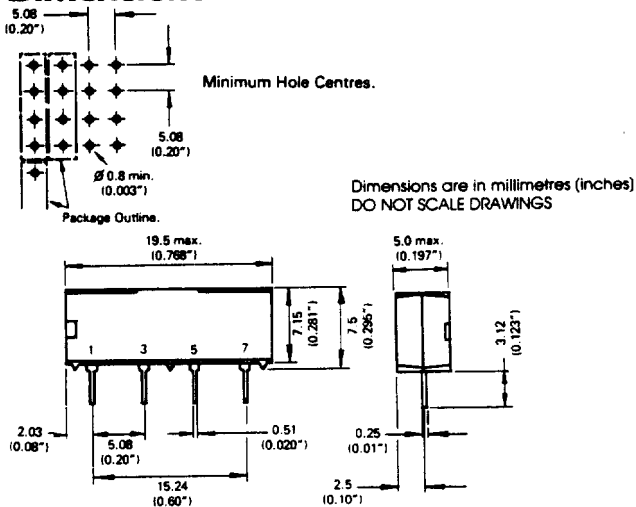
The Astralux 160 Series single-in-line reed relays comply with internationally recognised I.C style packaging. Available in a standard 4 pin reduced profile package the design provides a normally open contact and a range of coil voltages, with optional diode protection provided.



Design features

- ★ SIL for maximum board density
- ★ High density in line pin spacing
- ★ Low profile for 0.5 inch board spacing
- ★ Automatic Insertion potential
- ★ Moulded package resistant to moisture ingress from cleaning agents
- ★ High input/output Isolation to all points
- ★ Stable contact resistance
- ★ Fast operate and release times
- ★ Standoff pads on body

Dimensions



Technical data

| | | | |
|--|--|------|-------|
| CONTACT RATING DC (Max) | VDC | AMPS | WATTS |
| | 100 | 0.5 | 10 |
| CONTACT RESISTANCE (Initial) | 150 milliohms. | | |
| ISOLATION VOLTAGE Contact to Contact | 250v d.c. minimum | | |
| Coil to Contact | 1500v d.c. typical | | |
| INSULATION RESISTANCE Coil to Contact | 10 ¹² ohms at 25°C and 40% RH measured at 85v d.c. | | |
| Contact to Contact | 10 ¹² ohms at 25°C and 40% RH measured at 85v d.c. | | |
| OPERATE TIME @ NOM.COIL DRIVE INC. BOUNCE | 0.5ms. | | |
| CONTACT LIFE | 5 x 10 ⁸ Operations at full load 250 x 10 ⁸ Operations at signal loads. | | |
| TEMPERATURE RANGE Operate | -40°C to +85°C. | | |
| Storage | -40°C to +125°C | | |
| TERMINAL FINISH | Reflow Tin Plate. | | |

Coil data (@ 25°C)

| FORM | CIRCUIT SCHEMATICS | PART NUMBER | NOM. COIL VOLTAGE | COIL RES. ±10% at 25°C | MUST OP. VOLTS | MUST REL. VOLTS | MAX. VOLTS |
|--------------------------|--------------------|-------------|-------------------|------------------------|----------------|-----------------|------------|
| SIL 4 pin 1 FORM A | | 161A-1 | 5V | 500Ω | 3.5V | 0.8V | 10V |
| | | 161A-3 | 12V | 1000Ω | 8.6V | 1.5V | 18V |
| | | 161A-5 | 15V | 1000Ω | 11.5V | 2.0V | 30V |
| | | 161A-7 | 24V | 2000Ω | 17.1V | 2.5V | 40V |
| SIL 4 pin 1 FORM A | | 161A-2 | 5V | 500Ω | 3.5V | 0.8V | 10V |
| | | 161A-4 | 12V | 1000Ω | 8.6V | 1.5V | 18V |
| | | 161A-6 | 15V | 1000Ω | 11.5V | 2.0V | 30V |
| | | 161A-8 | 24V | 2000Ω | 17.1V | 2.5V | 40V |

CAUTION: This product contains a glass capsule and should not be opened or dismantled.