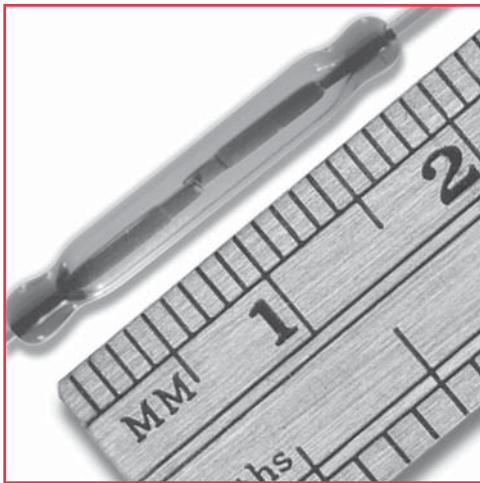


RI-44 Series Dry Reed Switch



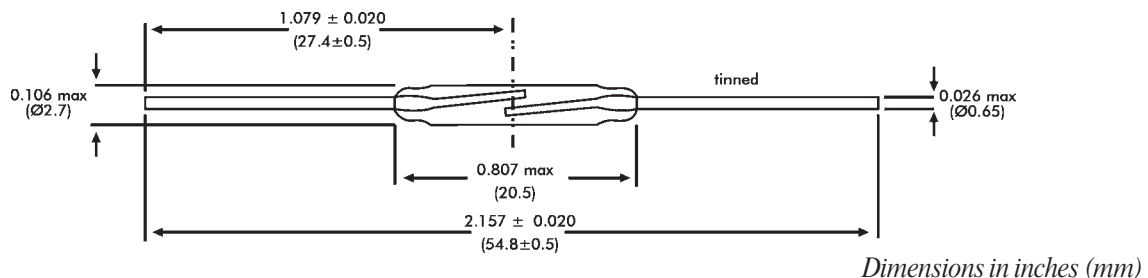
RI-44 Series

Micro dry-reed switch hermetically sealed in a gas-filled glass envelope. Single-pole, single-throw (SPST) type, having normally open contacts, and containing two magnetically actuated reeds. The switch is of the double-ended type and may be actuated by an electromagnet, a permanent magnet or a combination of both.

The device is intended for use in sensors, relays, pulse counters or similar devices where high voltages need to be switched.

RI-44 Series Features

- ◆ High voltage breakdown voltage
- ◆ Can handle up to 40W load
- ◆ Contact layers: gold, rhodium
- ◆ Superior glass-to-metal seal and blade alignment
- ◆ Excellent life expectancy and reliability



General data for all models RI-44

AT-Customization / Preformed Leads

Besides the standard models, customized products can also be supplied offering the following options:

- Operate and release ranges to customer specification
- Cropped and/or preformed leads

Coils

All characteristics are measured using the Philips Standard Coil. For definitions of the Philips Standard Coil, refer to “Application Notes” in the *Reed Switch Technical & Application Information* Section of this catalog.

Life expectancy and reliability

The life expectancy data given below are valid for a coil energized at 1.5 times the published maximum operate value for each type in the RI-44 series.

Loaded conditions (resistive load: 20 V; 500 mA; operating frequency: 125 Hz)

Operate Sensitivity > 25AT

MCBF 250M operations

End of life criteria:

Contact resistance > 2Ω after 2.5 ms

Release time > 2.5 ms (latching or contact sticking).

Switching different loads involves different life expectancy and reliability data. Further information is available on request.

Other loads, contact Coto for more detail.

Mechanical Data

Contact arrangement is normally open; lead finish is tinned; net mass is approximately 280 mg; and can be mounted in any position.

Shock

The switches are tested in accordance with “IEC 68-2-27”, test Ea (peak acceleration 500 G, half sinewave; duration 11 ms). Such a shock will not cause an open switch (no magnetic field present) to close, nor a switch kept closed by an 80 AT coil to open.

