

Submitted for recognition as an American National Standard

280 RELAY FOOTPRINT

This SAE Standard is written as an optional equivalent to ISO 7588 and ISO 7880.

Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format.

1. Scope—This SAE Standard covers a terminal footprint for mini and micro relays used in surface vehicle electrical systems.

1.1 Purpose—This proposal specifies the main dimensions and terminal allocation for a family of relays incorporating a dual in-line pattern of 280 series (2.8 mm) terminals to be used in surface vehicle applications.

2. References

2.1 Applicable Publications—The following publications form a part of this specification to the extent specified herein.

2.1.1 ISO PUBLICATIONS—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ISO 7588—Road vehicles—Relays and flashers—Mounting and positioning dimensions of male tabs and socket apertures for relays and flashers

ISO 7880—Road vehicles—Relays—Arrangement and functional attribution of relay terminals

2.1.2 RELAY ENGINEER'S HANDBOOK—Available from National Association of Relay Manufacturers (NARM), Milwaukee, WI 53217.

2.2 Related Publications—The following publications are provided for information purposes only and are not a required part of this document.

2.2.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

TSB 003—Rules for SAE Use of SI (Metric) Units

2.2.2 ANSI PUBLICATION—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ANSI Y14.5M-1982—Dimensioning and Tolerancing

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3. **Definitions**—The following definitions are in accordance with the "Relay Engineer's Handbook," 1991.

3.1 **Break Contact**—A contact combination which is closed when the armature is in its unoperated position. Also known as Form B.

3.2 **Make Contact**—A contact combination that is open when the armature is in its unoperated position. Also known as Form A.

3.3 **Changeover Contact**—A combination of two contact circuits including three contact members, one of them being common to the two contact circuits. When one of these is open, the other is closed and vice versa. Also known as Form C.

4. 280 Relay Footprint

4.1 **Mounting and Positioning Dimensions of Male Tabs and Socket Apertures**—All corresponding dimensions are also applicable if less than six tabs are fitted. The dimensions in Figure 1 refer to the positioning zones at the root of the male tabs and to the apertures at the entering plane.

All dimensions are in millimeters (SI metric, not to scale).

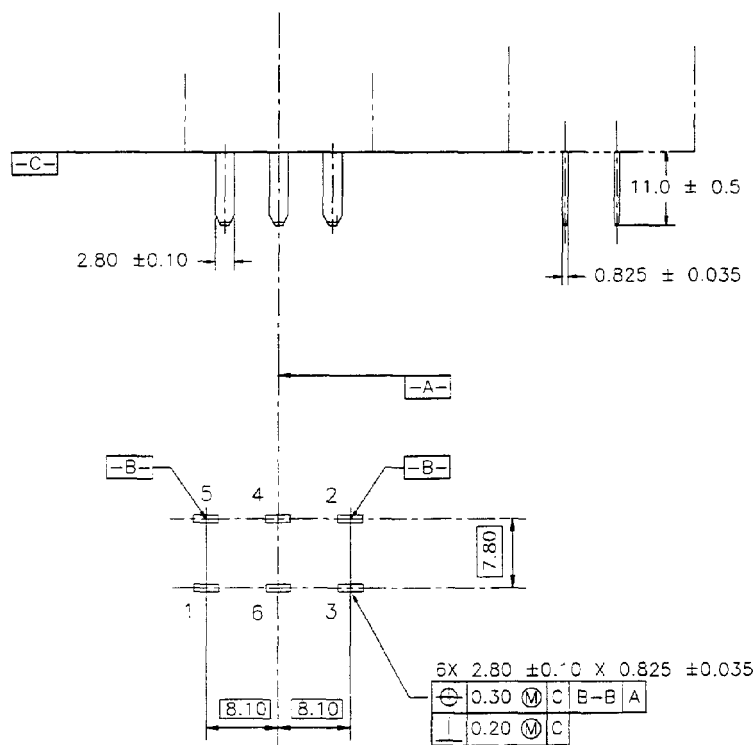


FIGURE 1—MOUNTING AND POSITIONING DIMENSIONS OF MALE TABS AND SOCKET APERTURES