

Annex E. Socket P.C.B. Terminal Patterns and Mounting

E.1 Socket Orientation

A Socket may be mounted in a variety of ways to suit the application. It is recommended that the socket orientation relative to the normal positioning of the unit be standardized according to figure E-1.

Figure E-1 – Socket orientations

E.2 P.C.B. Mounting

A socket may be attached to a P.C.B. in a variety of ways to suit the application. Figure A-6 illustrates a number of possibilities.

Table A-6 – Table of socket PCB mounting styles and footprint figures

<u>Mounting Orientation</u>	<u>Mounting Designation</u>	<u>Through-hole mounting</u>		<u>Surface mounting</u>	
		<u>Pattern 1</u>	<u>Pattern 2</u>	<u>Pattern 1</u>	<u>Pattern 2</u>
	<u>Right-angle upright</u>	<u>Figure E-2</u> <u>h = 6.25 mm</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
	<u>Right-angle upright inverted</u>	<u>Figure E-3</u> <u>h = 6.25 mm</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>
	<u>Right-angle flat</u>	<u>TBD</u>	<u>TBD</u>	<u>Figure E-4</u> <u>h = 4.50 mm</u>	<u>TBD</u>
	<u>Right-angle flat inverted</u>	<u>TBD</u>	<u>TBD</u>	<u>Figure E-5</u> <u>h = 4.50 mm</u>	<u>TBD</u>
	<u>Right-angle flat straddle</u>	<u>not applicable</u>	<u>not applicable</u>	<u>TBD</u>	<u>TBD</u>
	<u>Straight (perpendicular)</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>	<u>TBD</u>

The first column shows how the socket may be mounted on either side of, or straddling the P.C.B. The second column designates the style of mounting. Columns 3 and 4 designate the figure which describes, in detail, the hole and pad pattern for each mounting designation for use with through-hole soldering to the P.C.B. Patterns 1 and 2 differ only in the shape and location of the holes which accept the terminals of the shell. Column 5 and 6 designate the figure which describes, in detail, the hole and pad pattern for each mounting designation for use with surface mounted, reflow soldered socket terminals. Again, patterns 1 and 2 differ only in the holes for the shell terminals. The dimension "h" has a nominal tolerance of ± 0.20 mm, and the P.C. board thickness is presumed to be 1.6 mm nominal unless otherwise specified in the pattern figure.

At any point in time, only some of the figures shown in figure A-6 will actually exist, and are included in this annex. Those that are marked (TBD) are not presently defined and will be added to this annex as the need for them is established, and the patterns and dimensions become available.

Figure E-2 – Right angle upright through-hole mount

Figure E-3 – Right angle upright through-hole mount (inverted)

Figure E-4 – Right angle flat surface mount

Figure E-5 – Right angle flat surface mount (inverted)

E.3 Panel Mounting

TBD

E.4 Electrical Isolation of Socket Shell to Panel

TBD

E.5 RF Trap

TBD