

Recommendations for

Dimensions of spindle ends and bushes, and for dimensions for the mounting of single-hole, bush-mounted spindle-operated variable capacitors, variable resistors and potentiometers for electronic equipment

[IEC title: Capacitors and resistors for electronic equipment — Preferred dimensions of spindle ends, bushes and for the mounting of single-hole, bush-mounted, spindle-operated electronic components]

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- British Telecommunications plc
- Electronic Components Industry Federation
- Electronic Engineering Association
- Ministry of Defence
- National Supervising Inspectorate
- Society of British Aerospace Companies Ltd.
- Telecommunication Engineering and Manufacturing Association

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National foreword

This British Standard has been prepared under the direction of the Electronic Components Standards Committee. It is identical with IEC 915:1987 “*Capacitors and resistors for electronic equipment. Preferred dimensions of spindle ends, bushes and for the mounting of single-hole, bush-mounted, spindle-operated electronic components*”, published by the International Electrotechnical Commission (IEC) in the development of which the UK has played an active part.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Cross-references

International Standards	Corresponding British Standards
IEC 620:1984	BS 6103:1986 <i>Specification for dimensions for the mounting of single-hole, bush-mounted, spindle-operated electronic components</i> (Identical)

The Technical Committee has reviewed the provisions of IEC 390, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 12, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Section 1. General

1 General

1.1 Introduction

The dimensions given in this publication have been selected from IEC Publications 390 (1972) and 620 (1984) because the ranges of dimensions included in these publications were considered too large and contained too many variants for capacitors and resistors for electronic equipment. Consequently this publication contains preferred dimensions of spindle ends, bushes and for the mounting of single-hole, bush-mounted, spindle-operated variable capacitors, variable resistors and potentiometers. If other dimensions not listed in this publication have to be used, it is recommended to also select them from the above mentioned publications.

1.2 Related documents

- IEC Publication 390 (1972): Dimensions of spindle ends for manually operated electronic components.
- IEC Publication 620 (1984): Dimensions for the mounting of single-hole, bush-mounted, spindle-operated electronic components.

Section 2. Preferred dimensions of spindle ends and bushes

2 Preferred dimensions

NOTE 1 Dimension A includes finish requirements.
NOTE 2 If intermediate values are required they should preferably be chosen from the R20 series.
NOTE 3 A chamfer at 40°/50°, or a radius for a depth of between 5 % and 10 % of the dimension A.

2.1 Plain round spindle

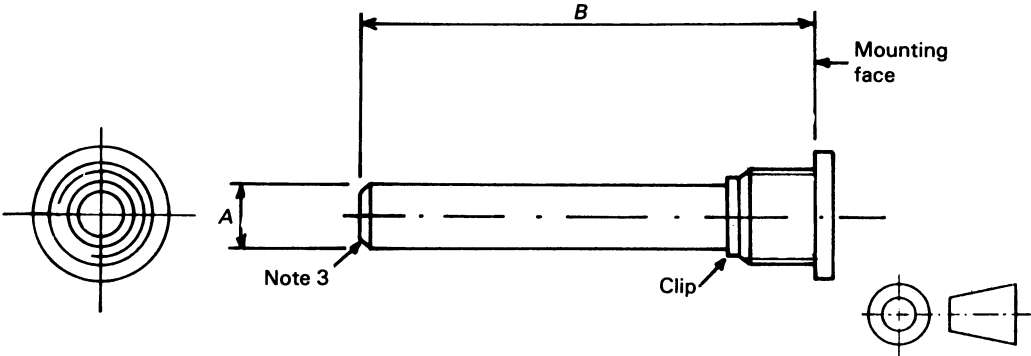


Figure 1

Dimensions in millimetres

Dimension A Note 1		Dimension B										
General	Precision	10 ± 0,5	12,5 ± 0,5	16 ± 0,5	20 ± 0,5	22 ± 0,5	25 ± 0,5	32 ± 0,5	40 ± 1,0	50 ± 1,0	63 ± 1,0	80 ± 1,0
3,00 ⁰ _{-0,06}	3,00 ⁰ _{-0,025}	X	X	X	X	X	X	X				
4,00 ⁰ _{-0,075}	4,00 ⁰ _{-0,03}	X	X	X	X	X	X	X	X			
6,00 ⁰ _{-0,075}	6,00 ⁰ _{-0,03}		X	X	X	X	X Note 4	X	X	X	X	
10, 0 ⁰ _{-0,09}	10,00 ⁰ _{-0,036}			X	X	X	X	X	X	X	X	X
NOTE 4 When specifically required this variant may have a cross-hole, diameter 3.15 ± 0.05, at 5 ± 0.4 mm from the end of the spindle. The centre line of the cross-hole shall not deviate from the centre line of the spindle by more than 0.1 mm.												