

High fidelity audio equipment and systems; minimum performance requirements —

Part 2: Specification for FM radio tuners

UDC [621.396 + 681.84]-187.4:621.396.621.66:621.376.32

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW



Document Sharing Hub

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Electronic Equipment Standards Committee (EEL/-) to Technical Committee EEL/32 upon which the following bodies were represented:

- Association of British Theatre Technicians
- Association of Sound and Communications Engineers Ltd.
- Audio Engineering Society
- British Educational Equipment Association
- British Kinematograph, Sound and Television Society
- British Radio and Electronic Equipment Manufacturers' Association
- British Telecommunications plc
- Cable Television Association of Great Britain
- Consumer Standards Advisory Committee of BSI
- Consumers' Association
- Council for Educational Technology for the United Kingdom
- Electronic Components Industry Federation
- Federation of British Audio
- Independent Television Companies' Association
- Industrial Council for Educational and Training Tech Ltd.
- Institution of Electronic and Radio Engineers
- Radio Electrical and Television Retailers' Association
- Royal Institute of British Architects
- Royal National Institute for the Deaf
- Society of Cable Television Engineers
- Telecommunication Engineering and Manufacturing Association (TEMA)
- Training and Educational Systems Testing Bureau

This British Standard, having been prepared under the direction of the Electronic Equipment Standards Committee, was published under the authority of the Board of BSI and comes into effect on 30 April 1987

© BSI 12-1999

The following BSI references relate to the work on this standard:
Committee reference EEL/32
Draft for comment 81/30858 DC

ISBN 0 580 15791 1

Amendments issued since publication

Amd. No.	Date of issue	Comments

Contents

	Page
Committees responsible	Inside front cover
National foreword	ii
1 Scope	1
2 Measuring conditions	1
3 Published data	1
Section 1. Minimum requirements for characteristics directly related to the reproducing quality	
4 Rated minimum input signal level for high fidelity performance	2
5 Sensitivity at 50 dB signal-to-noise ratio	2
6 Effective frequency range	2
7 Channel unbalance	2
8 Total harmonic distortion	2
9 Variation of operating frequency with time	3
10 Channel separation	3
11 Unweighted (band-limited) signal-to-noise ratio	3
12 Weighted signal-to-noise ratio	4
13 Capture ratio	4
14 AM suppression ratio	4
15 Selectivity	4
16 Rejection of unwanted signals entering through the aerial	5
17 Spurious responses due to r.f. non-linearity	5
18 Suppression of fundamental and harmonics of the sub-carrier and the pilot-tone	5
19 Rejection of sub-carrier modulation other than due to the stereophonic signal	5
20 Interconnection	5
21 Characteristics to be specified	5
Publications referred to	Inside back cover

National foreword

This Part of BS 5942, published under the direction of the Electronic Equipment Standards Committee, is identical with Publication 581-2:1986 “*High fidelity audio equipment and systems; minimum performance requirements*” Part 2 “*FM radio tuners*”, published by the International Electrotechnical Commission (IEC).

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.

Cross-references

International Standard	Corresponding British Standard
	BS 5428 <i>Methods for specifying and measuring the characteristics of sound system equipment</i>
IEC 268-15:1978	Part 10:1979 <i>Preferred matching values for the interconnection of sound system components</i> (Identical)
	BS 4054 <i>Methods of measuring and expressing the performance of radio receivers for sound broadcasting</i>
IEC 315-1:1970	Part 1:1980 <i>General conditions</i> (Identical)
	BS 5942 <i>High fidelity audio equipment and systems; minimum performance requirements</i>
IEC 581-1:1977	Part 1:1980 <i>Specification for general requirements</i> (Identical)

At present there is no corresponding British Standard for IEC 315-4 referred to in the text. The Technical Committee has reviewed the provisions of this IEC Publication and has decided they are acceptable for use in conjunction with this standard.

IEC 268-1:1968, which is referenced in the text, has been superseded by IEC 268-1:1985, which is identical to BS 6840 “*Sound system equipment*” Part 1:1987 “*Methods for specifying and measuring general characteristics used for equipment performance*”.

IEC 268-11, referred to in clause 20, superseded IEC 268-14A which is identical to BS 5428-5.2. It is intended to implement IEC 268-11 as an identical Part of BS 6840.

BS 6840 will supersede BS 5428. All new Parts of IEC 268 will be issued only as Parts of BS 6840 as stated above. All existing Parts of BS 5428 will be reissued as Parts of BS 6840.

Copies of CCIR publications, referred to in the text, may be purchased from the International Telecommunications Union, Place des Nations, 1211 Geneva, Switzerland.

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 6, 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.