

INTERNATIONAL STANDARD

IEC
61837-4

First edition
2004-05

**Surface mounted piezoelectric devices
for frequency control and selection –
Standard outlines and terminal lead
connections –**

**Part 4:
Hybrid enclosure outlines**



Reference number
IEC 61837-4:2004(E)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**SURFACE MOUNTED PIEZOELECTRIC DEVICES
FOR FREQUENCY CONTROL AND SELECTION –
STANDARD OUTLINES AND TERMINAL LEAD CONNECTIONS –**

Part 4: Hybrid enclosure outlines

FOREWORD

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International Standard IEC 61837-4 has been prepared by IEC technical committee 49: Piezoelectric and dielectric devices for frequency control and selection.

This International Standard shall be read in conjunction with IEC 61240.

The text of this standard is based on the following documents:

FDIS	Report on voting
49/657/FDIS	49/679/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

IEC 61837 consists of the following parts under the general title *Surface mounted piezoelectric devices for frequency control and selection – Standard outlines and terminal lead connections*:

- Part 1: Plastic moulded enclosure outlines;
- Part 2: Ceramic enclosures;
- Part 3: Metal enclosures;
- Part 4: Hybrid enclosure outlines.

The committee has decided that the contents of this publication will remain unchanged until 2008. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date

SURFACE MOUNTED PIEZOELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION – STANDARD OUTLINES AND TERMINAL LEAD CONNECTIONS –

Part 4: Hybrid enclosure outlines

1 Scope

This part of IEC 61837 specifies the outline drawings for surface mounted piezoelectric devices with hybrid enclosure outlines.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61240:1994, *Piezoelectric devices – Preparation of outline drawings of surface mounted devices (SMD) for frequency control and selection – General rules*

3 Dimensions of surface mounted piezoelectric devices with hybrid enclosure outlines

The dimensions in this standard apply to surface mounted piezoelectric devices.

Only those dimensions are given which meet the requirements of IEC 61240.

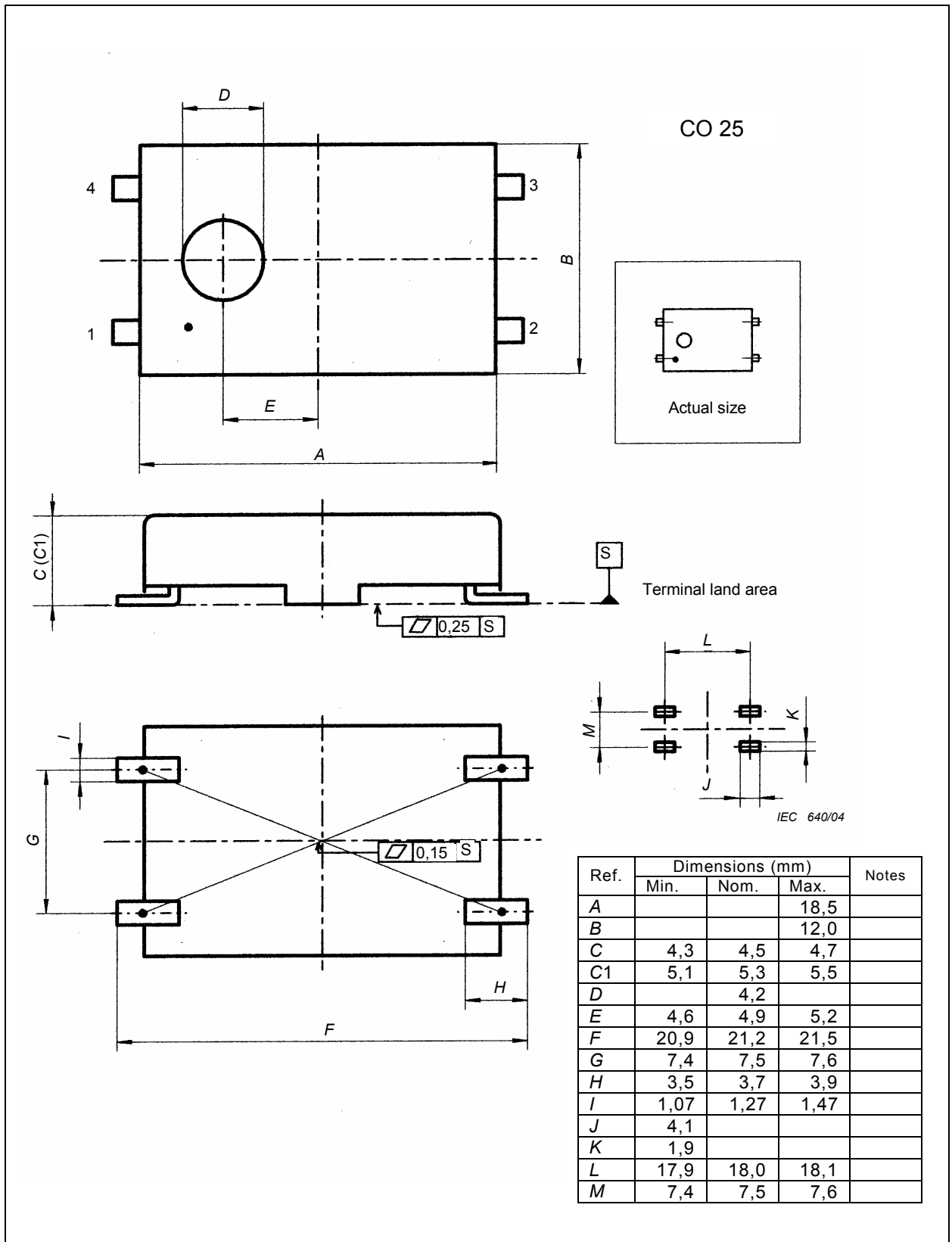
4 Designation of surface mounted piezoelectric devices with hybrid enclosure outlines

**Table 1 – Designation of surface mounted piezoelectric devices
with hybrid enclosure outlines**

No.	Type	Sheet No.	Description	National reference	
				Country	Reference
1	CO 25	Sheet 1	Hybrid SMD enclosure with four bent connection pins		
2	CO 26	Sheet 2	Hybrid SMD enclosure with four connection pads		
3	CO 27	Sheet 3	Hybrid SMD enclosure with six connection pads		
4	CO 28	Sheet 4	Hybrid SMD enclosure with seven connection pads		
5	CO 29	Sheet 5	Hybrid SMD enclosure with eight connection pads		
6	CO 30	Sheet 6	Hybrid SMD enclosure with six connection pads		

Table 2 – Lead connections

Crystal oscillator outline	Position (lead number)	Function
CO 25	1	NC (IC)
	2	Ground
	3	Output
	4	Vcc
CO 26	1	NC (IC)
	2	Ground
	3	Output
	4	Vcc
CO 27	1	Vc
	2	NC (IC)
	3	Ground
	4	Output
	5	NC (IC)
	6	Vcc
CO 28	1	NC (IC)
	2	Vref
	3	Vcc
	4	Output
	5	NC (IC)
	6	NC (IC)
	7	Ground
CO 29	1	Vc
	2	Optional
	6	Disable
	7	Ground
	8	Output
	9	Output
	13	Optional
	14	Vcc
CO 30	1	Vc
	2	Vcc
	3	Optional
	4	Output
	5	Ground
	6	Optional

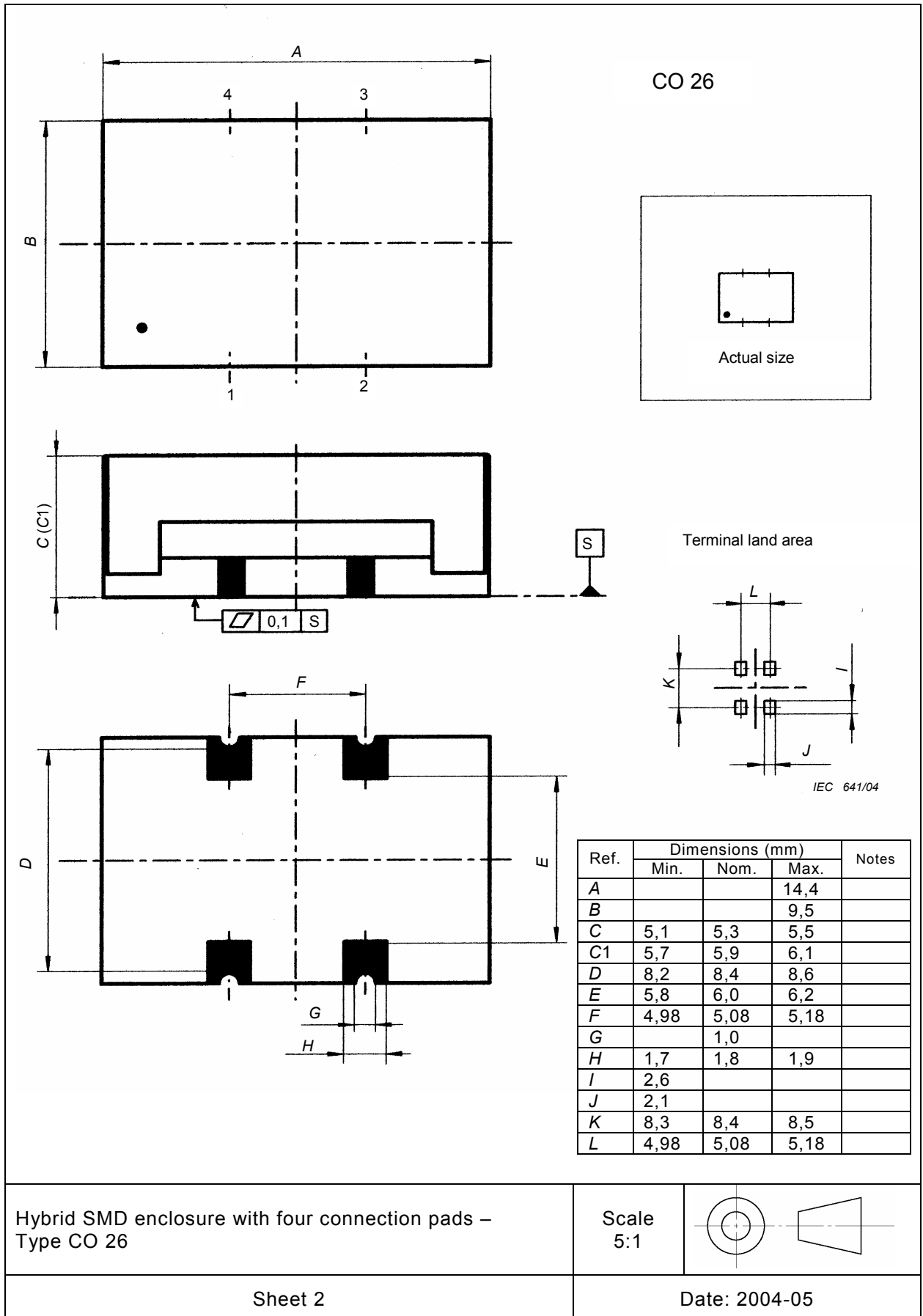


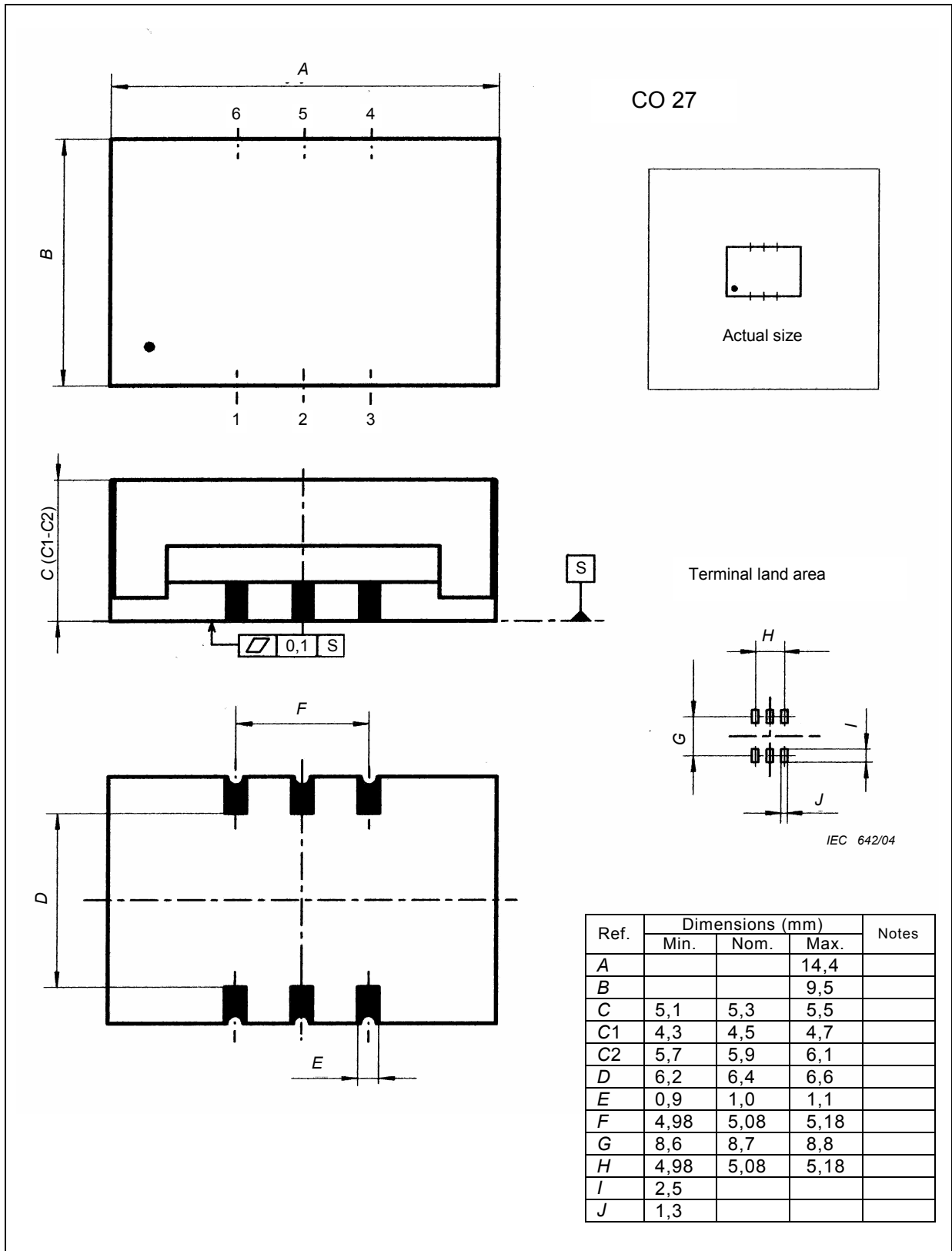
Hybrid SMD enclosure with four bent connection pins –
Type CO 25

Scale
4:1

Sheet 1

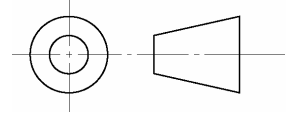
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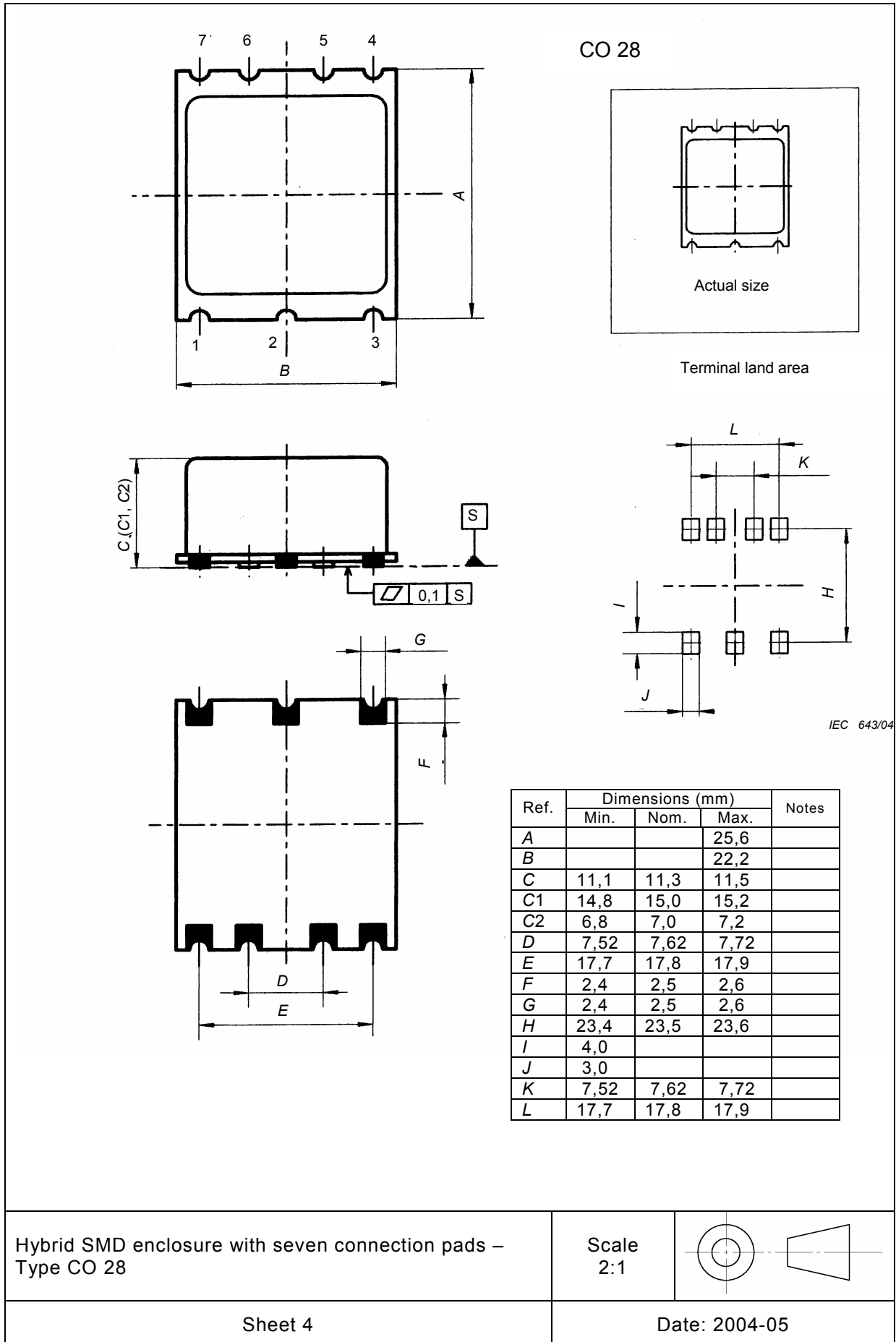
Hybrid SMD enclosure with six connection pads –
Type CO 27

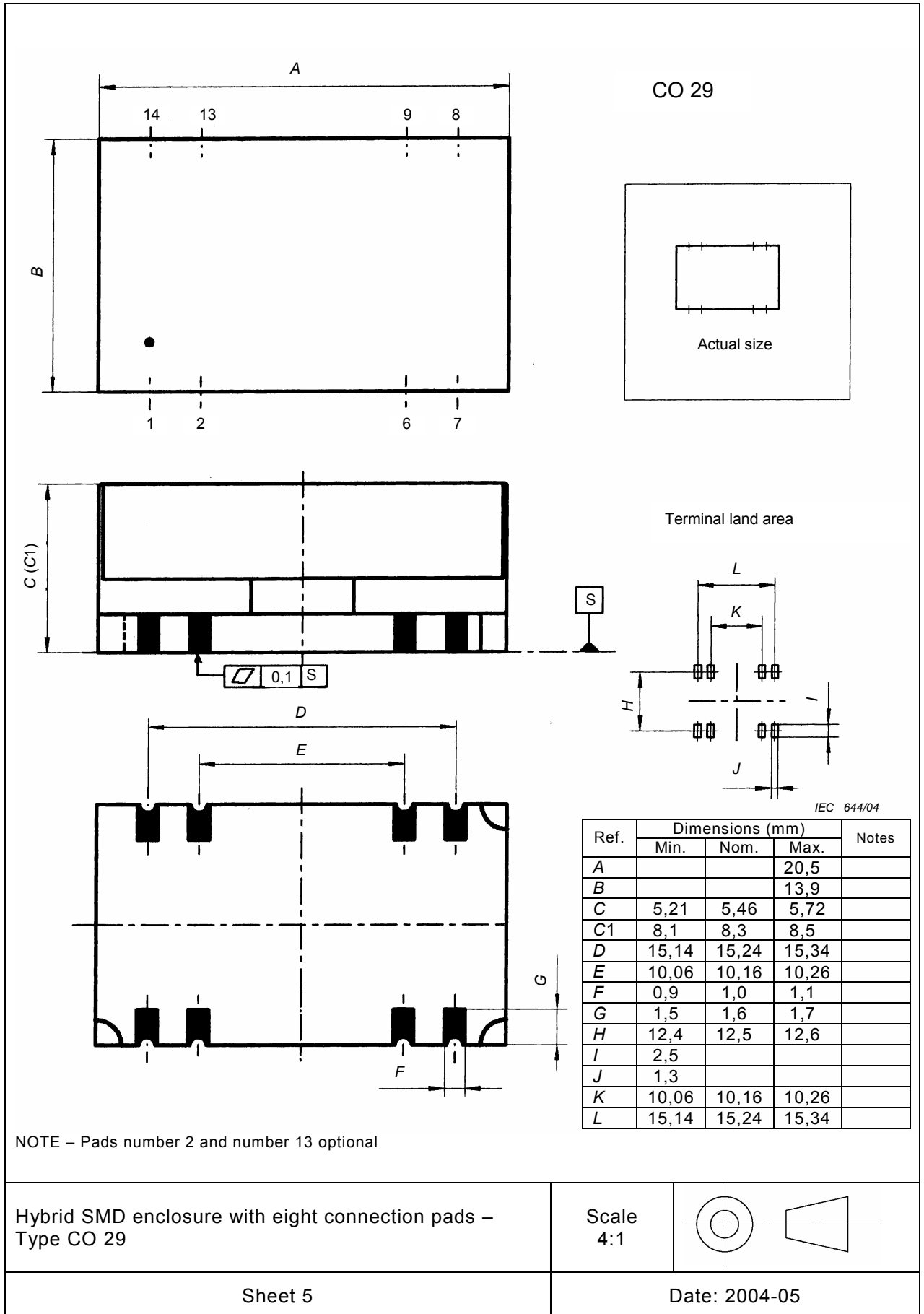
Scale
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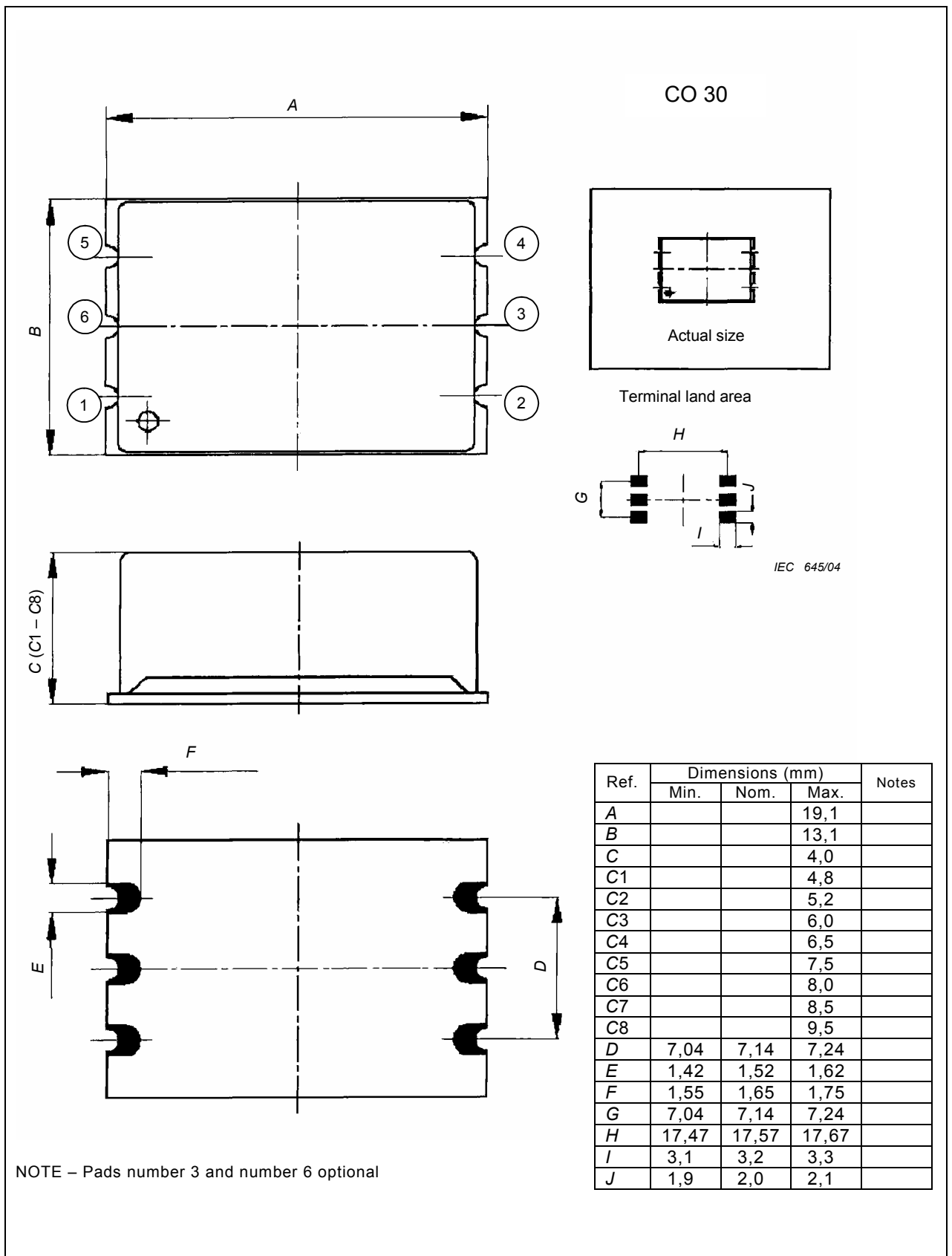


Sheet 3

Date: 2004-05

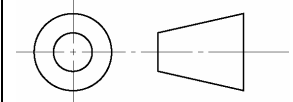






Hybrid SMD enclosure with six connection pads – Type CO 30

Scale
4:1



Sheet 6

Date: 2004-05



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- other.....

Q4 This standard will be used for: (tick all that apply)

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Q5 This standard meets my needs: (tick one)

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- fairly well
- exactly

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- standard is too superficial
- title is misleading
- I made the wrong choice
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- (4) above average,
- (5) exceptional,
- (6) not applicable

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- quality of writing.....
- technical contents.....
- logic of arrangement of contents
- tables, charts, graphs, figures.....
- other

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- English text only
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