BS EN 61837-1:2012



BSI Standards Publication

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

Part 1: Plastic moulded enclosure outlines



BS EN 61837-1:2012 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of EN 61837-1:2012. It is identical to IEC 61837-1:2012. It supersedes BS EN 61837-1:1999 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EPL/49, Piezoelectric devices for frequency control and selection.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2012

Published by BSI Standards Limited 2012

ISBN 978 0 580 66749 7

ICS 31.140

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 September 2012.

Amendments issued since publication

Amd. No. Date Text affected

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 61837-1

August 2012

ICS 31.140

Supersedes EN 61837-1:1999

English version

Surface mounted piezoelectric devices for frequency control and selection -

Standard outlines and terminal lead connections - Part 1: Plastic moulded enclosure outlines

(IEC 61837-1:2012)

Dispositifs piézoélectriques à montage en surface pour la commande et le choix de la fréquence -

Encombrements normalisés et connexions des sorties -

Partie 1: Encombrements des enveloppes en plastique moulées (CEI 61837-1:2012)

Oberflächenmontierbare piezoelektrische Bauteile zur Frequenzstabilisierung und - selektion -

Norm-Gehäusemaße und Anschlüsse -Teil 1: Kunststoffgehäuse (IEC 61837-1:2012)

This European Standard was approved by CENELEC on 2012-05-25. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 49/930/CDV, future edition 2 of IEC 61837-1, prepared by IEC/TC 49 "Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61837-1:2012.

The following dates are fixed:

•	latest date by which the document has	(dop)	2013-02-25
	to be implemented at national level by		
	publication of an identical national		
	standard or by endorsement		

 latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2015-05-25

This document supersedes EN 61837-1:1999.

EN 61837-1:2012 includes the following significant technical changes with respect to EN 61837-1:1999:

- one enclosure type (SIP-L5/01) has been deleted;
- configuration symbol of enclosures is currently consolidated into one as DCC (dual chip carrier).

This standard shall be read in conjunction with EN 61240:1997.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 61837-1:2012 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD	<u>Year</u>
IEC 61240	1994	Piezoelectric devices - Preparation of outlin drawings of surface-mounted devices (SME for frequency control and selection - Genera- rules	D)	1997

CONTENTS

1	Scope	5
2	Normative references	5
	Configuration of enclosures	
4	Designation of types	5
	Plastic moulded enclosure dimensions	
6	Lead connections	6
7	Plastic moulded enclosures	6
Tab	le 1 – Designation of plastic moulded enclosures	. 6

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

Part 1: Plastic moulded enclosure outlines

1 Scope

This part of IEC 61837 deals with standard outlines and terminal lead connections as they apply to SMDs for frequency control and selection in plastic moulded enclosures and is based on IEC 61240.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 rules¹

3 Configuration of enclosures

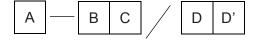
These enclosures are made of plastic moulded materials with the terminal leads based on the descriptive designation system for semiconductors, devices package.

The configuration symbols are shown as follows:

DCC (dual chip carrier)

4 Designation of types

The designation of types is shown in four parts as follows:



A: Configuration symbol of enclosures:

DCC (dual chip carrier);

B: Structure of terminal leads:

J: leaded type;

C: Number of terminal leads

D: Two digit serial number

¹ A new edition is under consideration.

5 Plastic moulded enclosure dimensions

The dimensions in this standard apply to all the completed SMD-devices for frequency control and selection. Only those dimensions are given which meet the requirements of IEC 61240.

6 Lead connections

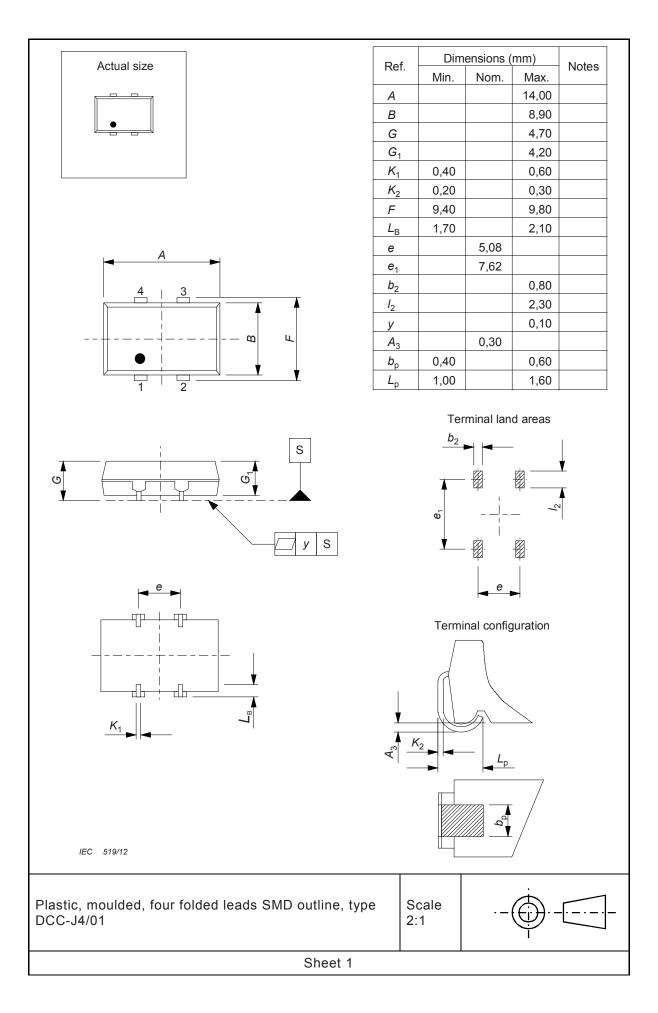
Recommendations for the lead connections of all completed SMD-devices for frequency control and selection are given in the following individual sheets. Lead connections shall always be given in the detail specification.

7 Plastic moulded enclosures

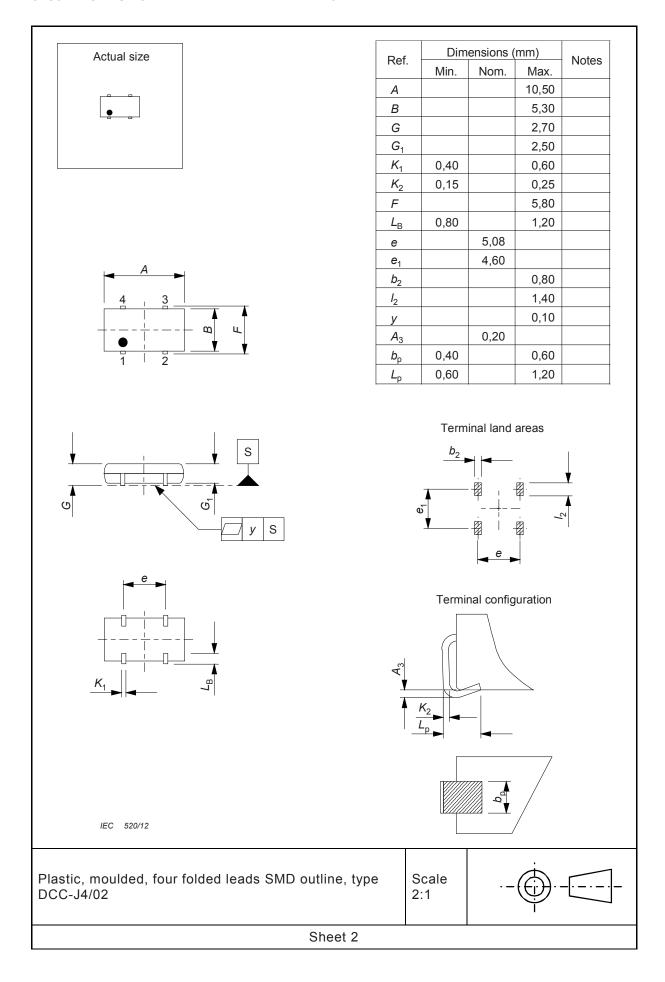
The following table sets out the designation of the plastic moulded enclosures as outlined in the ensuing specification sheets.

Table 1 - Designation of plastic moulded enclosures

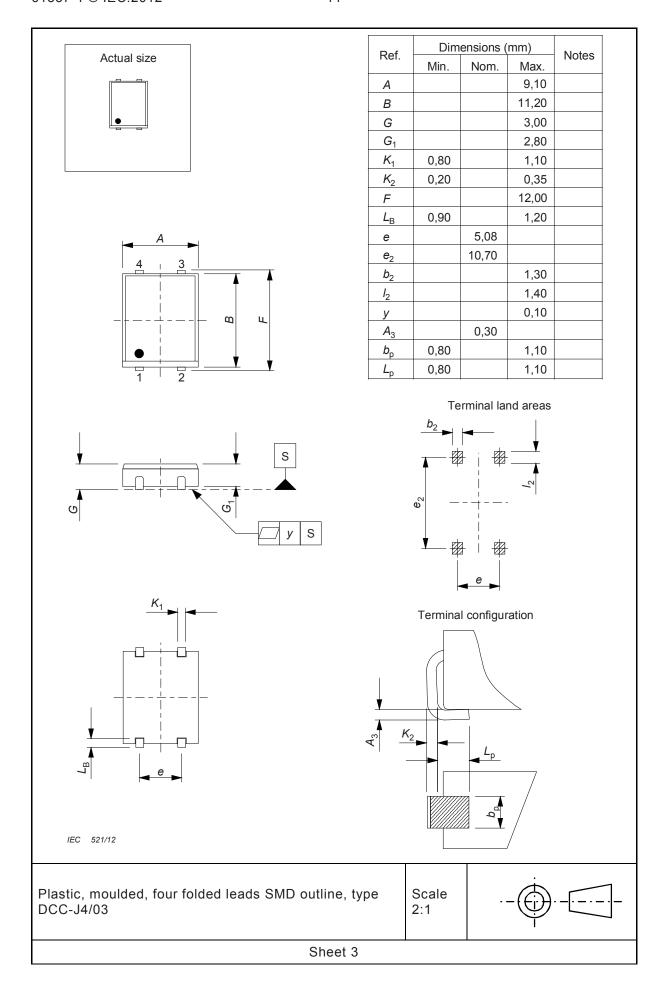
No.	Type	Sheet No.	Description
1	DCC-J4/01	Sheet 1	Plastic, moulded, four folded leads SMD outline
2	DCC-J4/02	Sheet 2	Plastic, moulded, four folded leads SMD outline
3	DCC-J4/03	Sheet 3	Plastic, moulded, four folded leads SMD outline
4	DCC-J4/04	Sheet 4	Plastic, moulded, four folded leads SMD outline
5	DCC-J4/05	Sheet 5	Plastic, moulded, four folded leads SMD outline
6	DCC-J4/06	Sheet 6	Plastic, moulded, four folded leads SMD outline
7	DCC-J4/07	Sheet 7	Plastic, moulded, four folded leads SMD outline
8	DCC-J4/08	Sheet 8	Plastic, moulded, four folded leads SMD outline



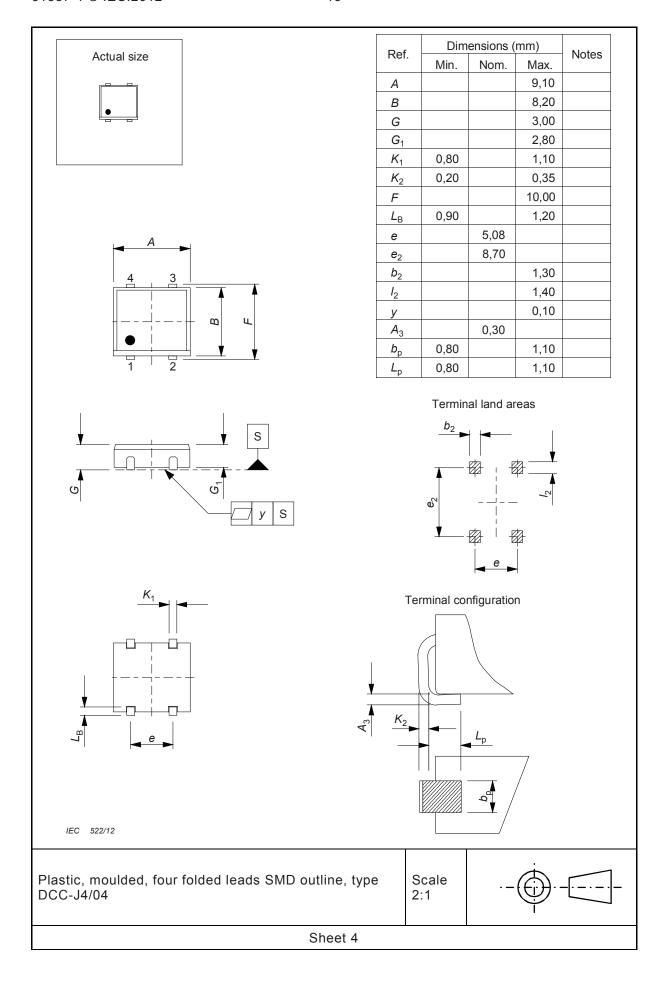
Type of SMD	Lead No.	Crystal unit	Crystal oscillator	Crystal filter
DCC-J4/01	1		Control voltage	
	2		Ground	
	3		Output	
	4		DC supply	



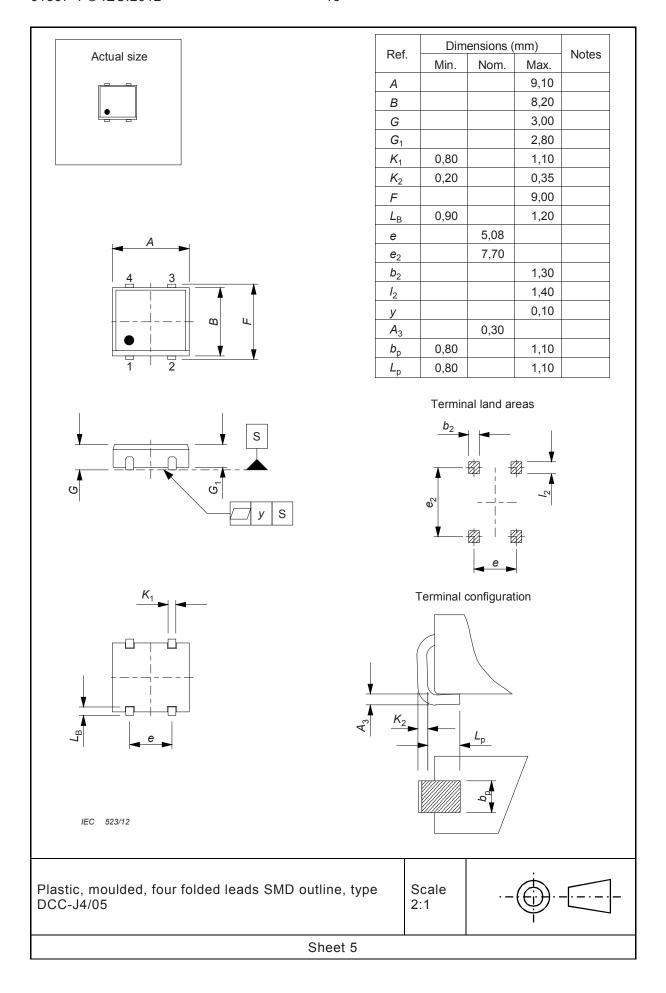
Type of SMD	Lead No.	Crystal unit	Crystal oscillator	Crystal filter
DCC-J4/02	1		Control voltage	
	2		Ground	
	3		Output	
	4		DC supply	



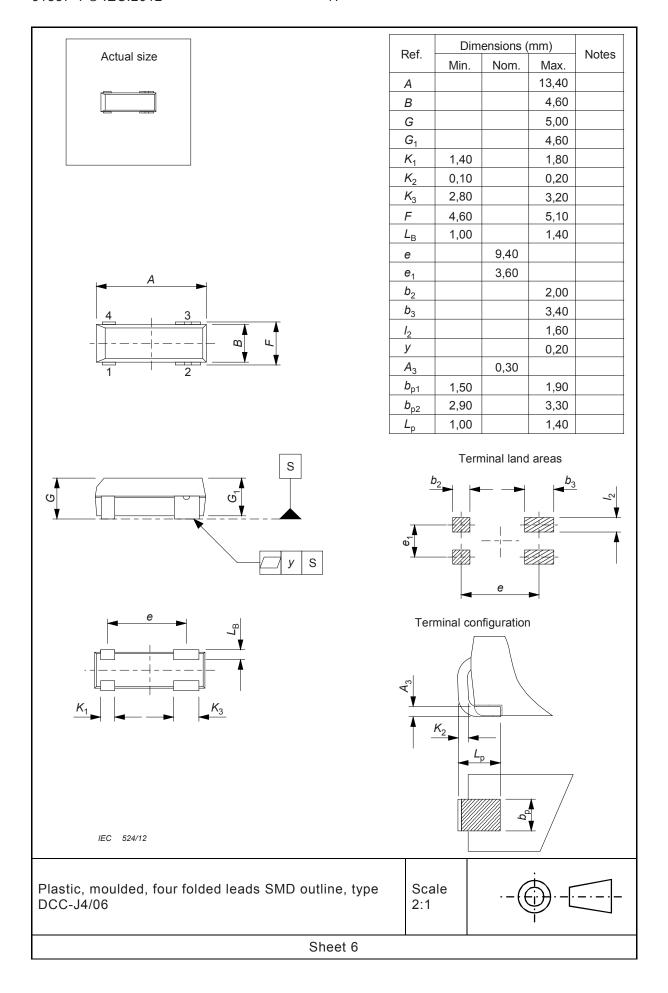
Type of SMD	Lead No.	Crystal unit	Crystal oscillator	Crystal filter
DCC-J4/03	1	Terminal 1	Control voltage	
	2	NC	Ground	
	3	NC	Output	
	4	Terminal 2	DC supply	



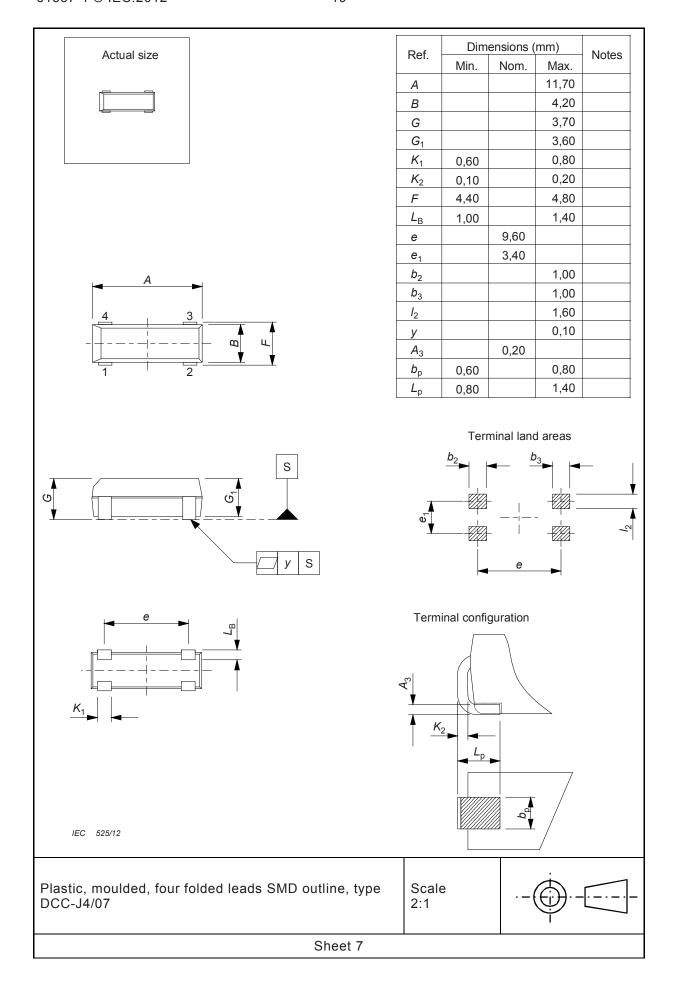
Type of SMD	Lead No.	Crystal unit	Crystal oscillator	Crystal filter
DCC-J4/04	1	Terminal 1	Control voltage	
	2	NC	Ground	
	3	NC	Output	
	4	Terminal 2	DC supply	



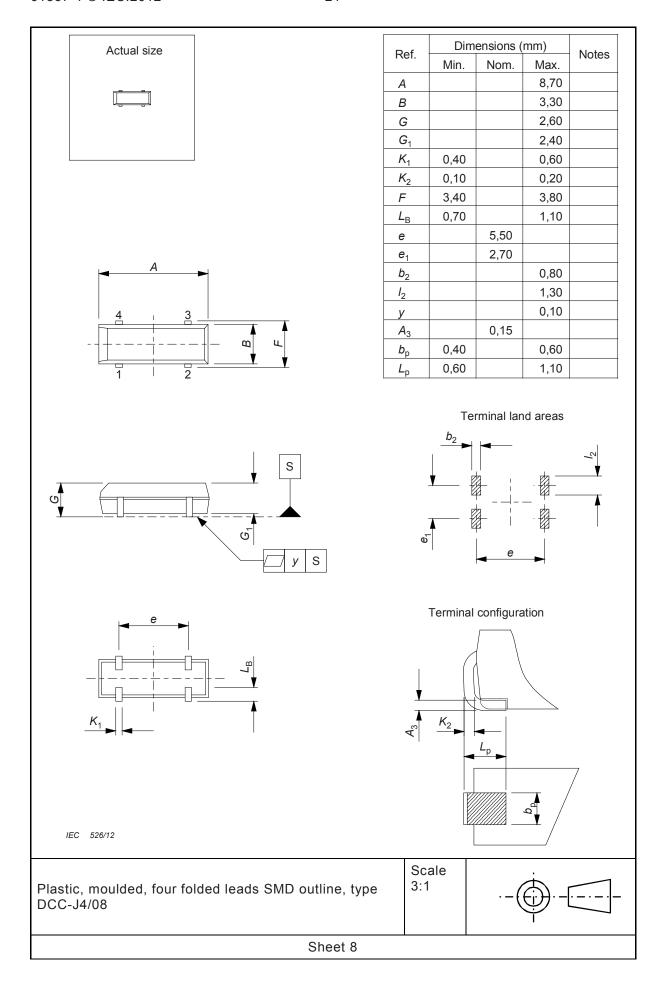
Type of SMD	Lead No.	Crystal unit	Crystal oscillator	Crystal filter
DCC-J4/05	1	Terminal 1	Control voltage	
	2	NC	Ground	
	3	NC	Output	
	4	Terminal 2	DC supply	



Type of SMD	Lead No.	Crystal unit	Crystal oscillator	Crystal filter
DCC-J4/06	1	Terminal 1		
	2	NC		
	3	NC		
	4	Terminal 2		



Type of SMD	Lead No.	Crystal unit	Crystal oscillator	Crystal filter
DCC-J4/07	1	Terminal 1		
	2	NC		
	3	NC		
	4	Terminal 2		



Type of SMD	Lead No.	Crystal unit	Crystal oscillator	Crystal filter
DCC-J4/08	1	Terminal 1		
	2	NC		
	3	NC		
	4	Terminal 2		



British Standards Institution (BSI)

BSI is the national body responsible for preparing British Standards and other standards-related publications, information and services.

BSI is incorporated by Royal Charter. British Standards and other standardization products are published by BSI Standards Limited.

About us

We bring together business, industry, government, consumers, innovators and others to shape their combined experience and expertise into standards -based solutions.

The knowledge embodied in our standards has been carefully assembled in a dependable format and refined through our open consultation process. Organizations of all sizes and across all sectors choose standards to help them achieve their goals.

Information on standards

We can provide you with the knowledge that your organization needs to succeed. Find out more about British Standards by visiting our website at bsigroup.com/standards or contacting our Customer Services team or Knowledge Centre.

Buying standards

You can buy and download PDF versions of BSI publications, including British and adopted European and international standards, through our website at bsigroup.com/shop, where hard copies can also be purchased.

If you need international and foreign standards from other Standards Development Organizations, hard copies can be ordered from our Customer Services team.

Subscriptions

Our range of subscription services are designed to make using standards easier for you. For further information on our subscription products go to bsigroup.com/subscriptions.

With **British Standards Online (BSOL)** you'll have instant access to over 55,000 British and adopted European and international standards from your desktop. It's available 24/7 and is refreshed daily so you'll always be up to date.

You can keep in touch with standards developments and receive substantial discounts on the purchase price of standards, both in single copy and subscription format, by becoming a **BSI Subscribing Member**.

PLUS is an updating service exclusive to BSI Subscribing Members. You will automatically receive the latest hard copy of your standards when they're revised or replaced.

To find out more about becoming a BSI Subscribing Member and the benefits of membership, please visit bsigroup.com/shop.

With a **Multi-User Network Licence (MUNL)** you are able to host standards publications on your intranet. Licences can cover as few or as many users as you wish. With updates supplied as soon as they're available, you can be sure your documentation is current. For further information, email bsmusales@bsigroup.com.

BSI Group Headquarters

389 Chiswick High Road London W4 4AL UK

Revisions

Our British Standards and other publications are updated by amendment or revision.

We continually improve the quality of our products and services to benefit your business. If you find an inaccuracy or ambiguity within a British Standard or other BSI publication please inform the Knowledge Centre.

Copyright

All the data, software and documentation set out in all British Standards and other BSI publications are the property of and copyrighted by BSI, or some person or entity that owns copyright in the information used (such as the international standardization bodies) and has formally licensed such information to BSI for commercial publication and use. Except as permitted under the Copyright, Designs and Patents Act 1988 no extract may be reproduced, stored in a retrieval system or transmitted in any form or by any means – electronic, photocopying, recording or otherwise – without prior written permission from BSI. Details and advice can be obtained from the Copyright & Licensing Department.

Useful Contacts:

Customer Services

Tel: +44 845 086 9001

Email (orders): orders@bsigroup.com
Email (enquiries): cservices@bsigroup.com

Subscriptions

Tel: +44 845 086 9001

Email: subscriptions@bsigroup.com

Knowledge Centre

Tel: +44 20 8996 7004

Email: knowledgecentre@bsigroup.com

Copyright & Licensing

Tel: +44 20 8996 7070 Email: copyright@bsigroup.com

