

ESL measuring method - Part 2: Surface mount capacitors for use in electronic equipment

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NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 62490-2:2010 sisaldab Euroopa standardi EN 62490-2:2010 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 31.10.2010 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 03.09.2010.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 62490-2:2010 consists of the English text of the European standard EN 62490-2:2010.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 31.10.2010 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 03.09.2010.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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**ESL measuring method -
Part 2: Surface mount capacitors for use in electronic equipment
(IEC 62490-2:2010)**

Méthode de mesure de l'ESL -
Partie 2: Condensateurs pour montage
en surface utilisés dans les équipements
électroniques
(CEI 62490-2:2010)

ESL-Messverfahren -
Teil 2: Oberflächenmontierbare
Kondensatoren zur Verwendung
in Geräten der Elektrotechnik
und Elektronik
(IEC 62490-2:2010)

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CENELEC

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

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Foreword

The text of document 40/2045/FDIS, future edition 1 of IEC 60490-2, prepared by IEC TC 40, Capacitors and resistors for electronic equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62490-2 on 2010-09-01.

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The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2011-06-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2013-09-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62490-2:2010 was approved by CENELEC as a European Standard without any modification.

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Annex ZA
(normative)**Normative references to international publications
with their corresponding European publications**

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.

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>	<u>EN/HD</u>	<u>Year</u>
IEC 60384-1	2008	Fixed capacitors for use in electronic equipment - Part 1: Generic specification	EN 60384-1	2009

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ESL MEASURING METHOD –

Part 2: Surface mount capacitors for use in electronic equipment

1 Scope

This part of IEC 62490 provides the ESL measuring method for the surface mount capacitors for use in electronic equipment.



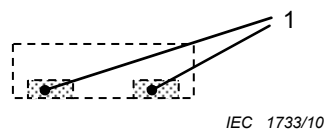
Figure 1a – Lead frame electrode terminal Figure 1b – Thin coating electrode terminal

Figure 1 – Lead frame and thin coating types of surface mount capacitors and the specification of the dimensions (L , W , and H)

The ESL measurement method can be applicable to the surface mount capacitors with the following properties, but not limited to these:

- a) capacitance range: 10 μF to 1 000 μF ;
- b) size: $L \times W = 3,2 \text{ mm} \times 1,6 \text{ mm}$ to $7,3 \text{ mm} \times 4,3 \text{ mm}$, $H = 4,0 \text{ mm}$;
- c) ESL range: 5 nH or less.

NOTE The surface mount capacitors in this document are limited to capacitors with lead frame or with thin coated terminals, see Figure 1. The scope of this document does not include capacitors with face down terminals, see Figure 2.



Key

- 1 terminals (shaded section)

Figure 2 – Surface mount capacitors with face down terminal

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 60384-1:2008, *Fixed capacitors for use in electronic equipment – Part 1: Generic specification*