

June 7, 2013

## Product change

### Reduced wire strength for EC 70 mounting assembly

The material strength of the wire used for EPCOS yoke EC 70 will be reduced to improve the bendability of the wire during wire forming. Moreover, the new wire will enable smoother production and avoid tears in the bending area of the wire.

In addition, the data sheet now specifies the distance between the yoke arms on the open side of the yoke (see annex).

The EC 70 yoke is used as a mounting part to fix ferrite cores to the coil former and is available as an EPCOS ferrite accessory.

#### Affected products

Ordering code
B66278B2002X000

Scheduled date of introduction: September 15, 2013

The new version with reduced material strength is already available from stock and can be ordered after customers approval effective immediately.

During a transitional period after introduction of the new product it is possible that both old and new products will be shipped.

#### Enclosure PCN

Data sheet

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**Customers are asked to address inquiries directly to their sales contacts.**



**Product / Process Change Notification  
Produkt-/ Prozess-Änderungsmitteilung**

<b>1. ID No. / ID-Nr.:</b> FER 13.002		<b>2. Date of announcement / Datum der Ankündigung:</b> June 7, 2013	
<b>3. Type / Produktgruppe:</b> EC 70 mounting assembly/ EC 70 Bügelhalterung	<b>Old ordering code / Alte Bestell-Nr.:</b> B66278B2002X000	<b>New ordering code / Neue Bestell-Nr.:</b> No change / Keine Änderung	<b>Customer part number / Kundensachnummer:</b>
<b>4. Description of change / Beschreibung der Änderung:</b> New, softer material for wire used in production of yoke EC 70. / Neues, weiches Material für den Draht des Bügels EC 70.			
<b>5. Effect on the product or for customers (quality, specification, lead time) / Auswirkung auf das Produkt oder für den Kunden (Qualität, Spezifikation, Lieferzeiten):</b> Reduction of wire strength helps to improve the bendability of the wire avoid problems in the bending area during wire forming, enable smoother production and avoid tears in the bending area of the wire. / Die geringere Drahtfestigkeit vermeidet Probleme beim Biegen des Drahtes, ermöglicht eine verbesserte Verarbeitung in der Produktion und eliminiert eventuelle Risse im Biegebereich.			
<b>6. Quality assurance measures / Maßnahmen zur Qualitätssicherung:</b> Dimensional measurement and appearance test OK, no difference to the existing type. Compared to existing version, data sheet now specifies the distance between the yoke arms at the open side of the yoke, see annex. / Abmessungen unverändert und Erscheinungstest OK, kein Unterschied zum bisherigen Typ. Im Datenblatt wird eine neue Abmessung der Klammerarme an der offenen Seite spezifiziert (siehe Anlage).			
<b>7. Scheduled date of introduction / Geplante Einführung:</b> September 15, 2013			
<b>8. Customer feedback / Rückmeldung vom Kunden:</b> If EPCOS does not receive notification to the contrary within a period of 10 weeks, EPCOS assumes that the customer agrees to the change. For an interim period we cannot rule out that old as well as new products will be shipped. Falls EPCOS innerhalb von 10 Wochen keine gegenteilige Mitteilung erhält, geht EPCOS davon aus, dass die geplante Änderung vom Kunden akzeptiert ist. Innerhalb einer Übergangszeit kann es vorkommen, dass sowohl alte wie auch neue Ware geliefert wird.			
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Customer acknowledgement Bestätigung durch den Kunden		Signature	



## Ferrites and accessories

### Mounting assembly EC70

**Series/Type:** EC70  
**Ordering code:** B66278B2002X000  
Date: 2013-04-04  
Version: 3

Preliminary data

**Mounting Assembly**

The set comprises two parts yoke and base plate

Fixing nuts M3 and washer are supplied

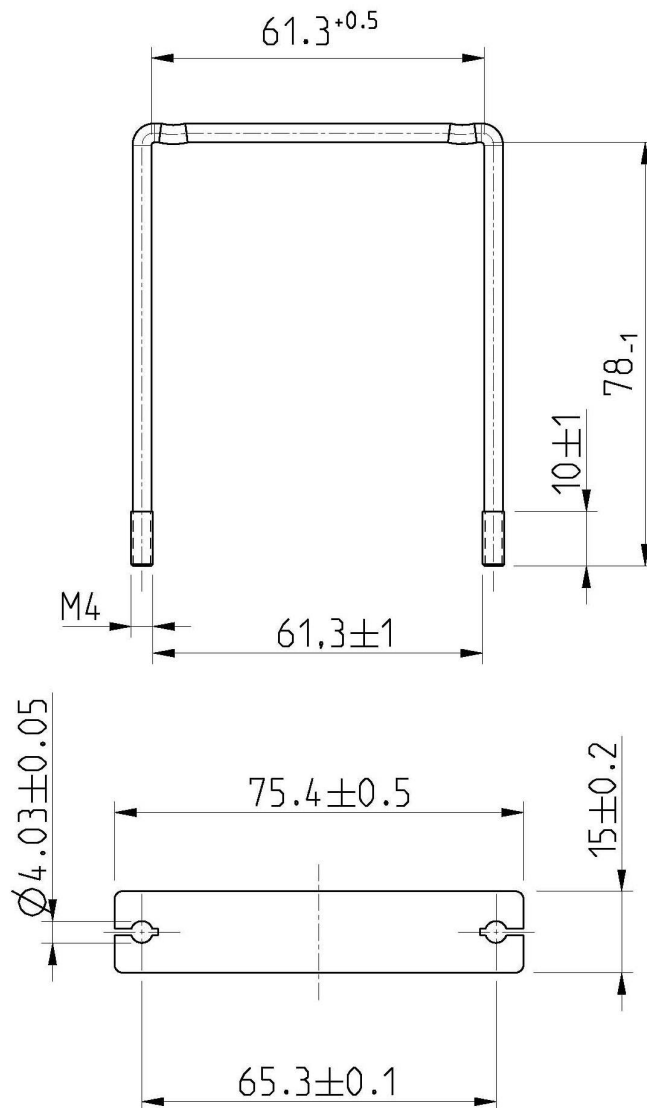
**Yoke**

Material : Steel clamping yoke (Ø3,5 mm) with thread, zinc plating

**Base plate:**

Material: Steel (0,8 mm), zinc plating

	Ordering code
Complete Mounting Assembly EC70	B66278B2002X000



## Preliminary data

## Cautions and warnings

### Mechanical stress and mounting

Ferrite cores have to meet mechanical requirements during assembling and for a growing number of applications. Since ferrites are ceramic materials one has to be aware of the special behavior under mechanical load.

As valid for any ceramic material, ferrite cores are brittle and sensitive to any shock, fast changing or tensile load. Especially high cooling rates under ultrasonic cleaning and high static or cyclic loads can cause cracks or failure of the ferrite cores.

For detailed information see Data Book 2007, chapter "General – Definitions, 8.1".

### Effects of core combination on AL value

Stresses in the core affect not only the mechanical but also the magnetic properties. It is apparent that the initial permeability is dependent on the stress state of the core. The higher the stresses are in the core, the lower is the value for the initial permeability. Thus the embedding medium should have the greatest possible elasticity.

For detailed information see Data Book 2007, chapter "General – Definitions, 8.2".

### Heating up

Ferrites can run hot during operation at higher flux densities and higher frequencies.

### NiZn-materials

The magnetic properties of NiZn-materials can change irreversible in high magnetic fields.

### Processing notes

The start of the winding process should be soft. Else the flanges may be destroyed.

To strong winding forces may blast the flanges or squeeze the tube that the cores can no more be mount.

To long soldering time at high temperature (>300 °C) may effect coplanarity or pin arrangement.

Not following the processing notes for soldering of the J-leg terminals may cause solderability problems at the transformer because of pollution with Sn oxide of the tin bath or burned insulation of the wire. For detailed information see Data Book 2007, chapter "Processing notes, 2.2".

The dimensions of the hole arrangement have fixed values and should be understood as a recommendation for drilling the printed circuit board. For dimensioning the pins, the group of holes can only be seen under certain conditions, as they fit into the given hole arrangement. To avoid problems when mounting the transformer, the manufacturing tolerances for positioning the customers' drilling process must be considered by increasing the hole diameter.

## Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
3. **The warnings, cautions and product-specific notes must be observed.**
4. In order to satisfy certain technical requirements, **some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous)**. Useful information on this will be found in our Material Data Sheets on the Internet ([www.epcos.com/material](http://www.epcos.com/material)). Should you have any more detailed questions, please contact our sales offices.
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