

August 29, 2014

## Product change

### **Additional production location in China for data line chokes**

An additional production location for the EPCOS data line chokes listed below is being introduced at a subcontractor in Mianyang, China (Sichuan). These components are presently manufactured in Hongqi, China. In addition, the marking of the below listed chokes will be extended with a factory identification code.

Ordering code
B82720H14*
B82720H15*
B82791G14*
B82791G15*
B82791H15*

There is no effect on the specified electrical and mechanical parameters of the products. The products will be qualified according to IEC 60938 prior to April 1, 2015, as detailed in the enclosed qualification plan.

Shipments of the components manufactured in Mianyang are scheduled to begin September 1, 2015.

**Enclosure** PCN  
Qualification plan data line chokes

**Contact** Gerhard Niedermeier, MAG TF T PMD, Munich

**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> MAG-342070814		<b>2. Date of announcement / Datum der Ankündigung:</b> Aug. 29, 2014	
<b>3. Type / Produktgruppe:</b> Data line chokes / Datenleitungsdröseln	<b>Old ordering code / Alte Bestell-Nr.:</b> B82720H14* B82720H15* B82791G14* B82791G15* B82791H15*	<b>New ordering code / Neue Bestell-Nr.:</b> No Change	<b>Customer part number / Kundensachnummer:</b>
<b>4. Description of change / Beschreibung der Änderung:</b> An additional production location for the EPCOS data line chokes listed above is being introduced at a subcontractor in Mianyang, China (Sichuan). These components are presently manufactured in Hongqi, China. In addition, the marking of the listed chokes will be extended with a factory identification code. Shipments of the components manufactured in Mianyang are scheduled to begin September 1, 2015. / Ein zusätzlicher Produktionsstandort für die genannten EPCOS Datenleitungsdröseln wird bei einem Unterauftragnehmer in Mianyang, China (Sichuan) eingeführt. Diese Bauelemente werden derzeit in Hongqi, China, gefertigt. Zusätzlich wird bei diesen Dröseln die Beschriftung um einen Code der Fertigungsstätte erweitert. Die Auslieferungen der in Mianyang gefertigten Bauelemente beginnt am 1. September 2015.			
<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> There is no effect on the specified electrical and mechanical parameters of the products. / Die spezifizierten elektrischen und mechanischen Eigenschaften der Produkte werden nicht beeinflusst.			
<b>6. Quality assurance measures / Maßnahmen zur Qualitätssicherung:</b> The products will be qualified according to IEC 60938 prior to April 1, 2015, as detailed in the enclosed qualification plan. / Eine Qualifikation wird gemäß IEC 60938 bis 1. April 2015 entsprechend beiliegendem Qualifikationsplan durchgeführt.			
<b>7. Scheduled date of introduction / Geplante Einführung:</b> Sept. 1, 2015			
<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.			
Quality Management: Name: Wolfgang Woitsch, 2014-08-07		Signature sgd. Woitsch	
Product Marketing: Tel: +49 89 54020 3019 Fax: +49 89 54020 2530 E-mail: gerhard.niedermeier@epcos.com Name: Gerhard Niedermeier		Signature sgd. Gerhard Niedermeier	



Customer acknowledgement  
Bestätigung durch den Kunden

Signature

## Passive Component Qualification Test Plan

Part Number:	B82791G0015A016, B82791H0015A035, B82791H0015A016, B82720H0015A035, B82720H0014A025
Description:	Data Line Chokes
Supplier:	Epcos AG
General Specification:	According to EPCOS Document No.A61864-A7614-A019*-7635

Item	Test	Test conditions	Lots	Parts each lot	Estimated Start	Estimated Comp	Pass/Fail	Remark	
								Disqualification Description	Link To Correlative Test Report
0	Pre- and Post Stress Electrical Test	LN,DCR,HV	1	190		1 day			
1	preconditioning	PTH: SnAg (3.0 - 4.0)% Cu (0.5 - 0.9)% 2x wave soldering (+270°C+/-3; t=10s +/-1s) or 2x dip soldering (+270°C+/-3; t=10s +/-1s; dip time 25±6 mm/s) for No.2, 3, 6	1	96		1 days			
2	Storage at High Temperature (According to IEC 60068-2-2 Part 1 test Ba)	duration:1000h;unloaded;ambient temperature:Tmax=125°C	1	32		46 days			
3	Temperature Cycling ( According to IEC 60068-2-14 Part 1 test Na)	soldered on PCB -40°C/Tmax=125°C,100 cycles transition time:<10s dwell time:30min	1	32		5 days			
4	Optical Inspection	Legible marking, good workmanship, no visual damage Microscope 10x	1	190		1 days			
5	Terminal strength, (SMT=n.a.) EN 60068-2-21, Test Ua1	Test Leaded device lead integrity only. Condition A(910g), C(1,13kg), E(1,45kg-mm); duration 10s ± 1s (min 20 pins)	1	30		3 days			
6	Mechanical Shock IEC 60068-2-27 Test Ea	soldered on PCB 1000 m/s², 6 ms 6 shocks in each direction of the 3 axis	1	32		15 day			
7	Vibration IEC 60068-2-6 Test Fc	soldered on PCB f = 10 Hz ...500 Hz, a = 100 m/s², A=0.75mm, 1 Okt/min 10 cycles each of 3 orientation	1						
8	Resistance to Soldering Heat (PTH)	PTH: SnAg (3.0 - 4.0)% Cu (0.5 - 0.9)% 2x wave soldering (+270°C+/-3; t=10s +/-1s) or 2x dip soldering (+270°C+/-3; t=10s +/-1s; dip time 25±6 mm/s)	1	32		1 days			
9	Solderability DIN IEC 60068-2-20 test Ta method 1 (ageing method 3)	dip & look test after aging: 4h / +155°C dry heat; (+245 ±3)°C, (3 ±0.3) sec, solder: SnAg (3.0 - 4.0)% Cu (0.5 - 0.9)%	1	16		2 days			
10	Dewetting test IEC 68-2-58/68-2-20 dip and look test	dip & look test (+260±5)°C, (5 ±0.5) sec, procedure and requirements according to 4.9 in IEC68-2-20	1	16		2 days			