u·p·t·o·d·a·t·e Newsletter 🐼 🗅 🗸

December 21, 2018

#### PTN Withdrawal of EPCOS SMT current sense transformers

To streamline the product range the following types from the B82801A0\* series of EPCOS SMT current sense transformers are being withdrawn. Please contact your regional sales contact for alternative parts.

Ordering code	
withdrawn types	
B82801A0134A040	
B82801A0135A125	
B82801A0185A150	
B82801A0214A050	
B82801A0304A060	
B82801A0333A020	
B82801A0404A070	
B82801A0743A030	
B82801A0824A100	

Deadline for last orders: Last shipments by: June 30, 2019 September 30, 2019

Contact Mathias Merkler, MAG TF T PM, Munich

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

Inductors Internal / External

181221IN1e



## **Replacement of EE4.2 SMD Transformer Series**

B82801A0\* (old) → B82801A1\* (new)

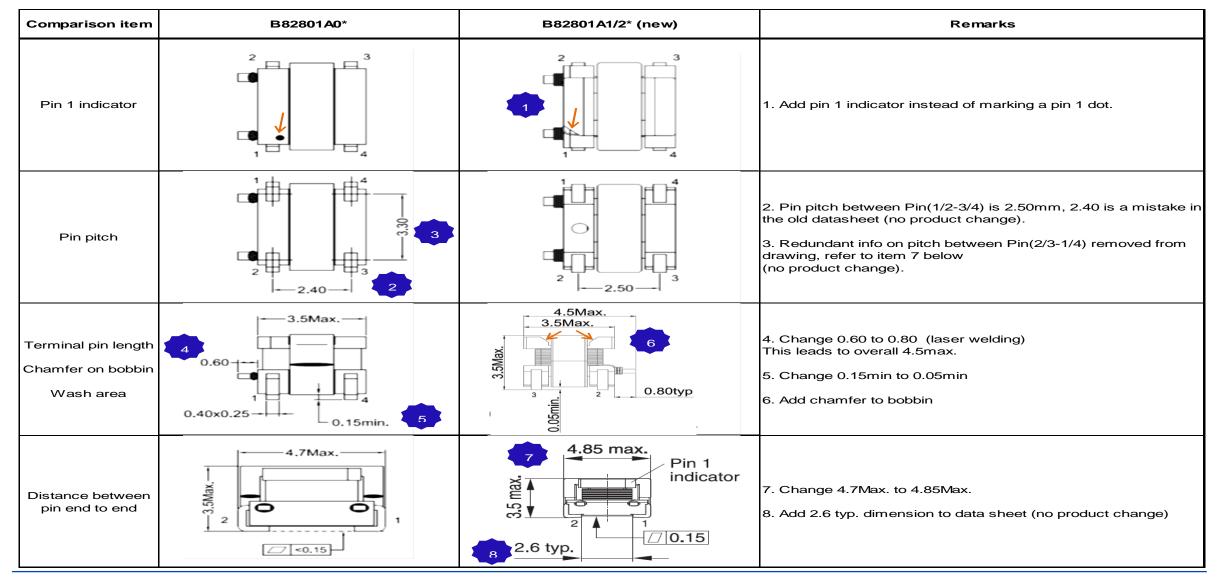
TDK Electronics AG MAG Business Group • TF T PM Munich, Germany December 20, 2018

# Replacement of Transformer Series B82801A0\* with New Series B82801A1\*

- Our EE4.2 SMD Current Sense Transformer series B82801A0\* must be withdrawn. As a replacement, we are introducing the new series B82801A1\*
- The new series B82801A1\* is pin-compatible with the B82801A0\* series and the majority of the electrical characteristics are unchanged. Details about mechanical and electrical differences are explained on the following slides.
- Samples of the new B82801A1\* series are available. The part numbers B82801A1214A050 B82801A1824A100 B82801A1185A150

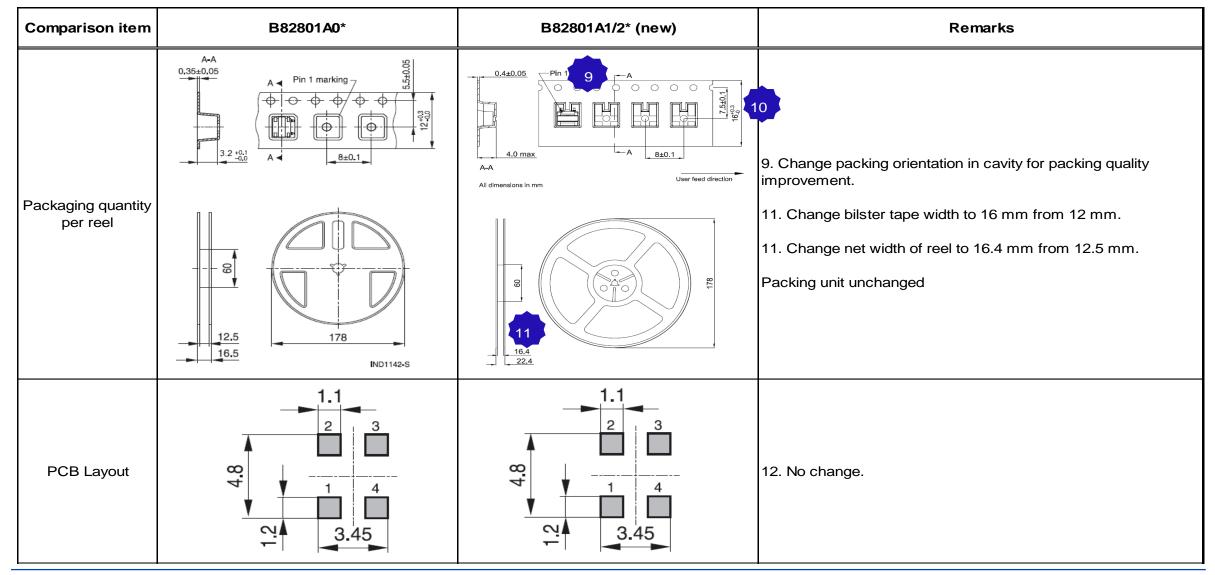
have already been released for mass production. The remaining types in the B82801A1\* series are expected to be released for production in February / March of 2019.

## Comparison of of B82801A0\* (old) with B82801A1\* (new) Mechanical Characteristics



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## Comparison of of B82801A0\* (old) with B82801A1\* (new) Packing and PCB Layout



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### Comparison of of B82801A0\* (old) with B82801A1\* (new) Electrical Characteristics and Ordering Codes

L <sub>min</sub>	Turns ratio	DC resistance R <sub>max</sub> (mΩ)		Voltage- time product	Recomm. R <sub>T</sub>	Ordering code
μH	N <sub>p</sub> : N <sub>s</sub>	primary	secondary	V•µs		
33	1:20	2.5	320	5.76	20	B82801A0333A020
74	1:30	2.5	800	8.6	30	B82801A0743A030
132	1:40	2.5	1300	11.5	40	B82801A0134A040
205	1:50	2.5	2200	14.4	50	B82801A0214A050
295	1:60	2.5	3600	17.3	60	B82801A0304A060
400	1:70	2.5	4600	20.0	70	B82801A0404A070
820	1:100	2.5	8700	28.8	100	B82801A0824A100
1280	1 : 125	2.5	13000	36.0	125	B82801A0135A125
1840	1 : 150	2.5	21000	43.2	150	B82801A0185A150

#### B82801A1\* (new):

L <sub>min</sub>	Turns ratio	DC resistance $R_{max}$ (m $\Omega$ )		Voltage- time product at n <sub>s</sub> <sup>1)</sup>	Recomm. R <sub>T</sub>	Ordering code
μH	n <sub>p</sub> : n <sub>s</sub>	primary	secondary	V・μs	Ω	
33	1 : 20	2.5	700	5.76	20	B82801A1333A020
74	1:30	2.5	1100	8.6	30	B82801A1743A030
132	1:40	2.5	1500	11.5	40	B82801A1134A040
205	1:50	2.5	2400	14.4	50	B82801A1214A050
295	1:60	2.5	3600	17.3	60	B82801A1304A060
400	1:70	2.5	4600	20.0	70	B82801A1404A070
820	1:100	2.5	9700	28.8	100	B82801A1824A100
1280	1 : 125	2.5	15000	36.0	125	B82801A1135A125
1840	1 : 150	2.5	22700	43.2	150	B82801A1185A150

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1) The maximum volt-sec rating limits the peak flux density to 200 mT when used in a unipolar drive application. For bi-polar drive applications, a maximum volt-sec of two times is acceptable.

#### Electrical characteristics unchanged, except for secondary DC resistance

B82801A0\* (old):



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