

Replacement of EE4.2 SMD Transformer Series

B82801A0* (old) → B82801A1/2* (new)

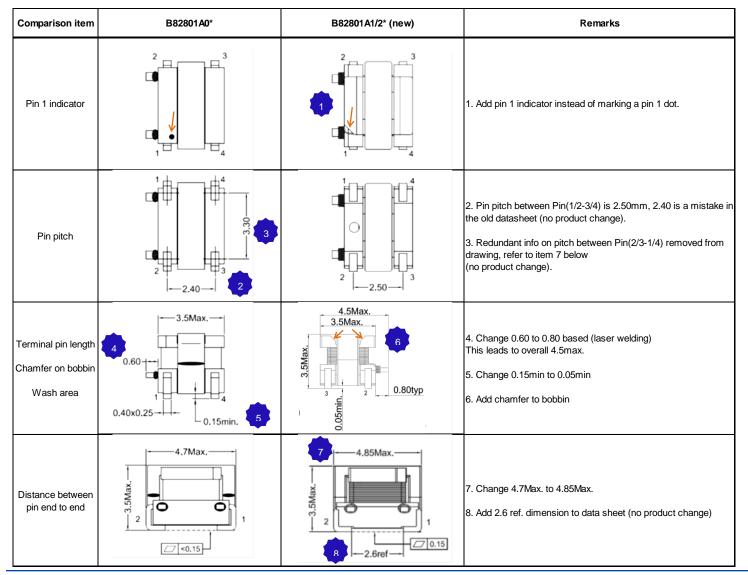
EPCOS AG A TDK Group Company MAG Business Group • TF T PM Munich, Germany September 04, 2018

Replacement of Transformer Series B82801A0* with New Series B82801A1/2*

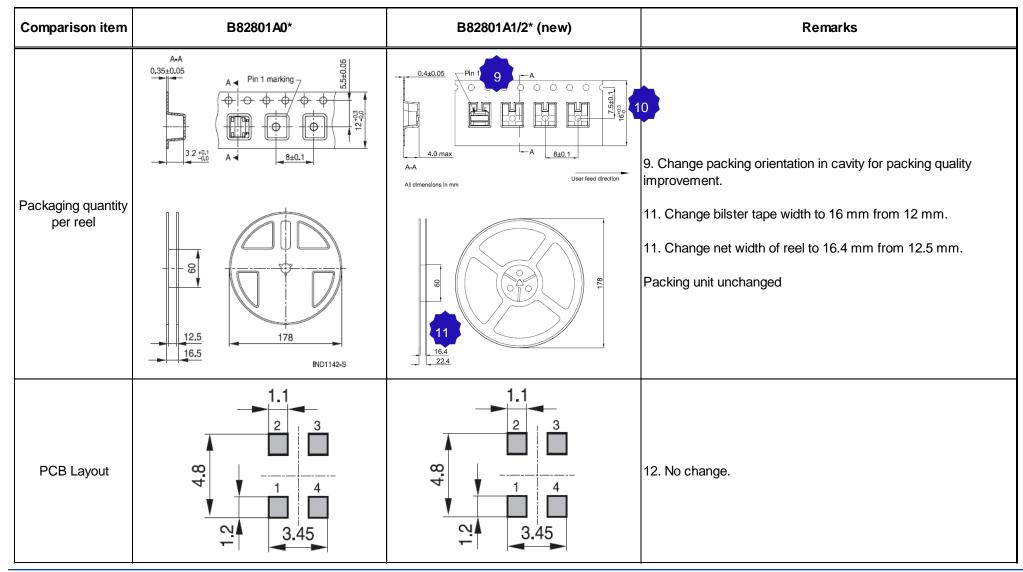
Attracting Tomorrow

- Our EE4.2 SMD Current Sense Transformer series B82801A0* must be withdrawn, because the bobbins used for this series are no longer available. As a replacement, we will introduce the new series B82801A1/2*
- The new series B82801A1/2* 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 B82801A1/2* series will be available in the second half of October 2018.
 Mass Production is expected to begin in November 2018.

Comparison of of B82801A0* (old) with B82801A1/2* (new) Attracting Tomorrow **&TDK** Mechanical Characteristics



Comparison of of B82801A0* (old) with B82801A1/2* (new) Attracting Tomorrow **Attracting Tomorrow** Packing and PCB Layout



Comparison of of B82801A0* (old) with B82801A1/2* (new) Attracting Tomorrow **Comparison** Codes

B82801A0* (old):							B82801A1/2* (new):						
L _{min}	Turns ratio	DC resistance R _{max} (mΩ)		Voltage- time product	Recomm. R _T	Ordering code	L _{min} (1-2)	Number of tums	DC resistance R _{max} [mΩ]		Voltage-time product at n _s (1)	Recomm. R _T [Ω]	Ordering code
μH	N _p : N _s	primary		V • µs			μH	np : ns	Primary	Secondary	V ·µs	-	
33	1:20	2.5	320	5.76	20	B82801A0333A020	33	1:20	2.5	390	5.76	20	B82801A1333A020
74	1:30	2.5	800	8.6	30	B82801A0743A030							
132	1:40	2.5	1300	11.5	40	B82801A0134A040	74	1:30	2.5	920	8.6	30	B82801A1743A030
205	1:50	2.5	2200	14.4	50	B82801A0214A050	132	1:40	2.5	1500	11.5	40	B82801A1134A040
295	1:60	2.5	3600	17.3	60	B82801A0304A060	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	B82801A0404A070	400	1:70	2.5	4600	20.0	70	B82801A1404A070
820	1:100	2.5	8700	28.8	100	B82801A0824A100	820	1:100	2.5	9700	28.8	100	B82801A1824A100
1280	1 : 125	2.5	13000	36.0	125	B82801A0135A125	1280	1 : 125	2.5	15000	36.0	125	B82801A1135A125
1840	1 : 150	2.5	21000	43.2	150	B82801A0185A150	1840	1 : 150	2.5	22700	43.2	150	B82801A1185A150
				-	-						k density to 200 r aximum volt-sec o		l in a unipolar drive acceptable.

Electrical characteristics unchanged, except for secondary DC resistance



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