April 4, 2023

PCN
Specification update of multilayer piezo actuators

After production ramp-up, individual specifications of the EPCOS multilayer piezo actuators (High Active Stacks HAS) are slightly adjusted according to actual production performance. This concerns typical values for the capacitance as well as the specification window for the stroke.

Affected products

Ordering code	Type
B58004M4030A020	COM30S5
B58004M4040A020	COM45S5

Changes in specification

Specification B58004**M4030**A020	Previous	New
Capacitance	typ. 3.0 µF	typ. 3.4 µF
Insulation resistance	> 100 MΩ	> 40 MΩ
Stroke @ 160 V	59 µm ± 10%	55 µm ± 10%
Deleted parameters:	current range charge @ 160 V capacitance @ 160 V energy @ 160 V	

Specification B58004**M4040**A020	Previous	New
Capacitance	typ. 4.6 µF	typ. 5.3 µF
Insulation resistance	> 100 MΩ	> 40 MΩ
Stroke @ 160 V	86 µm	83 µm ± 10%
Deleted parameters:	current range charge @ 160 V capacitance @ 160 V energy @ 160 V	

No changes have been implemented in the product itself, the production process, or the site related to this notification.

The new data sheets can be downloaded at www.tdk-electronics.tdk.com/piezo_stack

April 4, 2023

Scheduled date of change: July 17, 2023
(or earlier, with written approval by the customer)
Estimated date of first deliveries: July 17, 2023

Enclosure PCN (ID No. 027/T127)

Contact Jose dos Santos, PPD PI AE/IE, Munich

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

Product / Process Change Notification

1. ID No. 027/T127		**2. Date of announcement** April 4, 2023	
3. Product / product group Multilayer piezo actuators, High Active Stacks (HAS)	**Old ordering code** B58004M4030A020 (Com30) B58004M4040A020 (Com45)	**New ordering code** No change	**Customer part number**

4. Description of change

The specification is being updated according to the actual production output after ramp-up

B58004M4030A020:

Capacitance: typ. 3.0 µF to typ. 3.4 µF

Insulation resistance: from > 100 MOhm to > 40 MOhm

Stroke @ 160 V: from 59 µm ± 10% to 55 µm ± 10%

Deleted parameters: current range, charge @ 160 V, capacitance @ 160 V and energy @ 160 V;

B58004M4040A020:

Capacitance: typ. 4.6 µF to typ. 5.3 µF

Insulation resistance: from > 100 MOhm to > 40 MOhm

Stroke @ 160 V: from typ. 86 µm to 83 µm ± 10%

Deleted parameters: current range, charge @ 160 V, capacitance @ 160 V and energy @ 160 V;

5. Effect on the product or for the customer (benefit, quality, specification, lead time)

Typical values for capacitance as well as specification window for stroke were slightly adjusted.

6. Quality assurance measures / risk assessment

No changes have been implemented in the product, production process, or site related to this notification.

7. Scheduled date of change July 17, 2023
(or earlier, with written approval by the customer)

8. Estimated date of first delivery of changed product July 17, 2023
(or earlier, with written approval by the customer)

If TDK Electronics AG does not receive notification to the contrary within a period of 10 weeks, TDK Electronics AG 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.

☐ Future shipments can consist of old and new products as the new changed product is used as an alternative to the old product.

Quality Management

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Product Marketing

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Customer feedback	
Customer acknowledgement	Signature