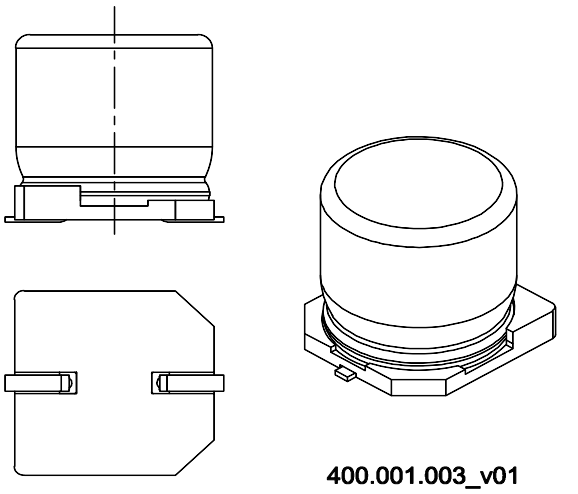
Hybrid Polymer Aluminum Electrolytic Capacitors

SMD capacitors

Series/Type:	**B40900**
Ordering code:	**B40900A7227M000**
Date:	June 05, 2019
Version:	2

125 °C / 4000 h

- Very high ripple current
- Low ESR across temperature range



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Dimensions (mm)

Case d x l	Insulation	Terminals
10 x 10.2	Coated can	SMD standard Sn plating

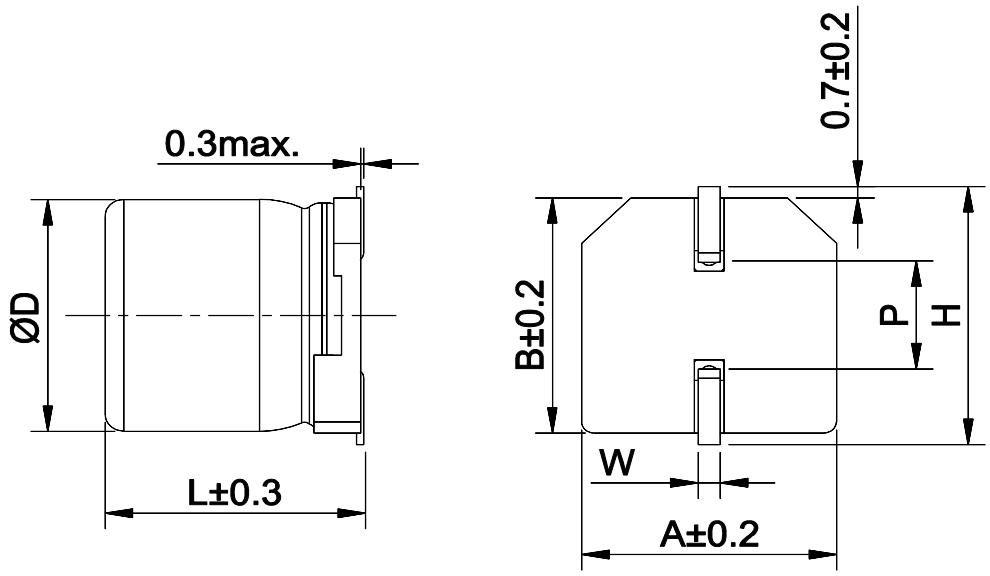
Technical data

Rated capacitance	C_R	120 Hz, 20 °C	270 µF	
Capacitance tolerance			± 20%	
Rated voltage	V_R		35 V	
Surge voltage	V_S	T_{amb} = 125 °C	40.2 V	1000 cycles acc. IEC 60384-4
Operating temperature range			–40 / +125 °C	
IEC climatic temperature			40/125/56	
Maximum leakage current	I_{leak}	2 min, 20 °C	94 µA	
Maximum tan δ	tan δ_{max}	120 Hz, 20 °C	0.12	
Maximum ESR	ESR_{max}	100 kHz, 20 °C	20 mΩ	
Rated ripple current	$I_{AC,R}$	100 kHz, T_{amb} = 125 °C	2.8 A	

Voltage endurance test	125 °C, V_R	1000 h	*After test:*	|ΔC/C| ≤ 15% of initial value tan δ ≤ 1.5 x initial spec. limit I_{leak} ≤ initial spec. limit
Useful life	125 °C, V_R, $I_{AC,R}$	4000 h	*After test:*	|ΔC/C| ≤ 30% of initial value ESR ≤ 2 x initial spec. limit [1)] I_{leak} ≤ initial spec. limit
Other specifications	Data Book 2019, RoHS-compatible			
Reference standard	AEC-Q200 (under qualification)			
Remarks	Taped on reel (plastic reel) [1)] ESR_{max} at 100 kHz, 20 °C			

Cautions and warnings: see Data Book 2019 or www.tdk-electronics.tdk.com

Detail drawing (mm):



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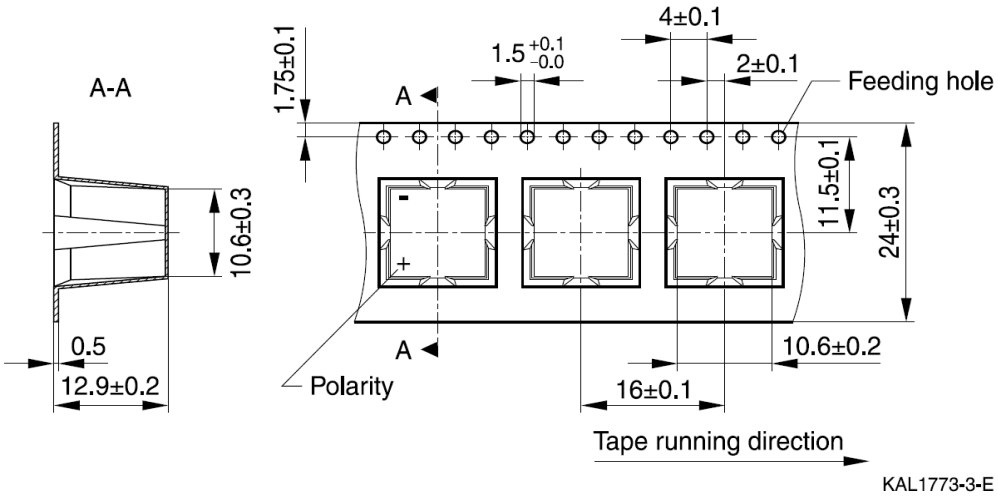
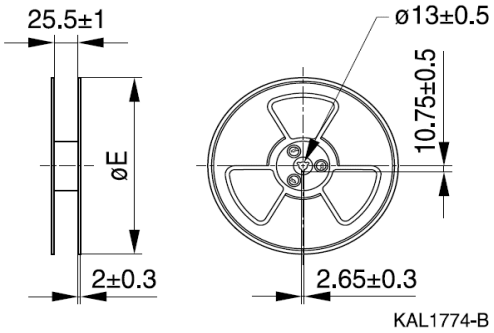
D ±0.5	L	A	B	H_{max}	W ±0.2	P *
10.0	10.2	10.3	10.3	12.0	0.9	4.6

* Reference value

Package details (mm):





E
381 mm

Parts per reel:	500 parts
Reels per box:	5 reels
Box dimensions:	400 mm x 405 mm x 230 mm

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, we are 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 a 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 lifesaving 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.

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