



# Hybrid Polymer Aluminum Electrolytic Capacitors

SMD capacitors

<b>Series/Type:</b>	<b>B40900</b>
<b>Ordering code:</b>	<b>B40900A7227M000</b>
Date:	June 05, 2019
Version:	2

# Hybrid Polymer Aluminum Electrolytic Capacitors

B40900A7227M000

## SMD capacitors

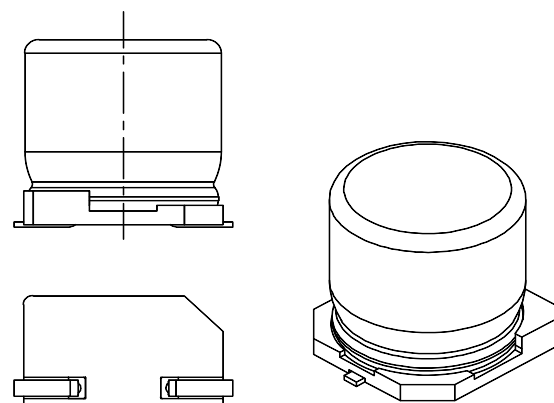
B40900

### 125 °C / 4000 h

- Very high ripple current
- Low ESR across temperature range

#### Dimensions (mm)

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



400.001.003\_v01

### Technical data

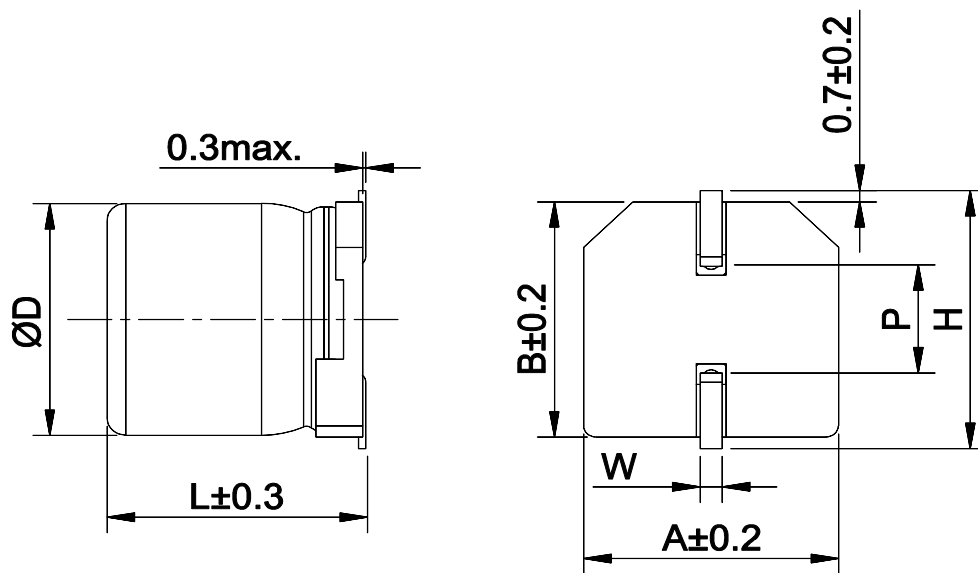
Rated capacitance	C <sub>R</sub>	120 Hz, 20 °C	270 μF	
Capacitance tolerance			± 20%	
Rated voltage	V <sub>R</sub>		35 V	
Surge voltage	V <sub>S</sub>	T <sub>amb</sub> = 125 °C	40.2 V	1000 cycles acc. IEC 60384-4
Operating temperature range			−40 / +125 °C	
IEC climatic temperature			40/125/56	
Maximum leakage current	I <sub>leak</sub>	2 min, 20 °C	94 μA	
Maximum tan δ	tan δ <sub>max</sub>	120 Hz, 20 °C	0.12	
Maximum ESR	ESR <sub>max</sub>	100 kHz, 20 °C	20 mΩ	
Rated ripple current	I <sub>AC,R</sub>	100 kHz, T <sub>amb</sub> = 125 °C	2.8 A	
Voltage endurance test	125 °C, V <sub>R</sub>		1000 h	After test:  ΔC/C  ≤ 15% of initial value tan δ ≤ 1.5 x initial spec. limit I <sub>leak</sub> ≤ initial spec. limit
Useful life	125 °C, V <sub>R</sub> , I <sub>AC,R</sub>		4000 h	After test:  ΔC/C  ≤ 30% of initial value ESR ≤ 2 x initial spec. limit <sup>1)</sup> I <sub>leak</sub> ≤ initial spec. limit
Other specifications	Data Book 2019, RoHS-compatible			
Reference standard	AEC-Q200 (under qualification)			
Remarks	Taped on reel (plastic reel) <sup>1)</sup> ESR <sub>max</sub> at 100 kHz, 20 °C			

Cautions and warnings: see Data Book 2019 or [www.tdk-electronics.tdk.com](http://www.tdk-electronics.tdk.com)

CAP ALU PD

June 05, 2019

Detail drawing (mm):



400.001.003\_v01

D ±0.5	L	A	B	H <sub>max</sub>	W ±0.2	P *
10.0	10.2	10.3	10.3	12.0	0.9	4.6

\* Reference value



## 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.
3. **The warnings, cautions and product-specific notes must be observed.**
4. In order to satisfy certain technical requirements, **some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous)**. Useful information on this will be found in our Material Data Sheets on the Internet ( [www.tdk-electronics.tdk.com/material](http://www.tdk-electronics.tdk.com/material) ). Should you have any more detailed questions, please contact our sales offices .
5. We constantly strive to improve our products. Consequently, **the products described in this publication may change from time to time**. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order.

We also **reserve the right to discontinue production and delivery of products**. Consequently, we cannot guarantee that all products named in this publication will always be available.

The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

6. Unless otherwise agreed in individual contracts, **all orders are subject to our General Terms and Conditions of Supply**.
7. **Our manufacturing sites serving the automotive business apply the IATF 16949 standard**. The IATF certifications confirm our compliance with requirements regarding the quality management system in the automotive industry. Referring to customer requirements and customer specific requirements ("CSR") TDK always has and will continue to have the policy of respecting individual agreements. Even if IATF 16949 may appear to support the acceptance of unilateral requirements, we hereby like to emphasize that **only requirements mutually agreed upon can and will be implemented in our Quality Management System**. For clarification purposes we like to point out that obligations from IATF 16949 shall only become legally binding if individually agreed upon.
8. The trade names EPCOS, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, ThermoFuse, WindCap are **trademarks registered or pending** in Europe and in other countries. Further information will be found on the Internet at [www.tdk-electronics.tdk.com/trademarks](http://www.tdk-electronics.tdk.com/trademarks) .

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А