

Noise suppression filter For audio lines (Class-D amplifier noise suppression) **VAF-FA** series









VAF201610FA-1 type













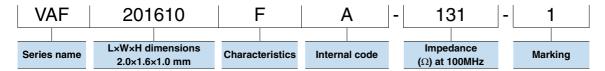
FEATURES

- A compact noise suppression component for audio lines that accommodates high currents.
- Obstortions are greatly reduced during insertion with the adoption of newly-developed low distortion ferrite materials.
- O Small reductions in volume due to its low resistance, and optimal for devices that require high sound quality as the generating of sound distortions is controlled.
- O High efficacy is put for high frequency noise suppression of class-D amplifier harmonics in 100MHz because of high damping property.
- Operating temperature range: -40 to +105°C (including self-temperature rise)

APPLICATION

- OAI speakers, Bluetooth speakers, TV speakers
- O Application guides: Smart phones/tablets

PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Impedance	DC resistance		Rated current		Part No.
[100MHz]					
(Ω) typ.	(Ω)max.	(Ω)typ.	(A)max.	(A)typ.	
130	0.040	0.032	3.08	3.62	VAF201610FA-131-1
280	0.050	0.042	2.69	3.16	VAF201610FA-281-1
440	0.076	0.063	2.19	2.58	VAF201610FA-441-1
840	0.079	0.066	2.14	2.52	VAF201610FA-841-1

Measurement equipment

Measurement item	Product No.	Manufacturer
Impedance	4294A	Keysight Technologies
DC resistance	34420A	Hewlett-Packard

^{*} Equivalent measurement equipment may be used.

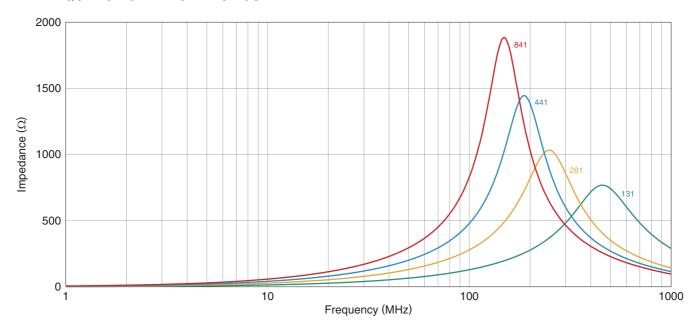




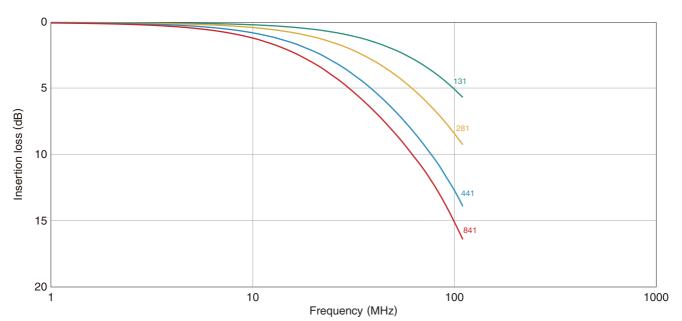


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Z FREQUENCY CHARACTERISTICS



INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



Measurement equipment

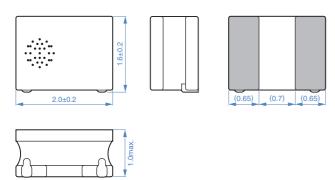
Product No.	Manufacturer	
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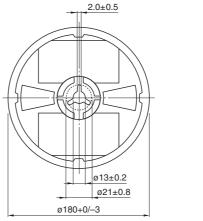
SHAPE & DIMENSIONS

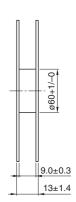


Dimensions in mm

■PACKAGING STYLE

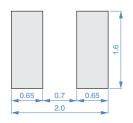
REEL DIMENSIONS





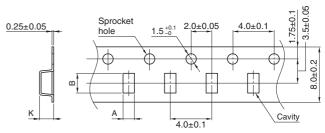
Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

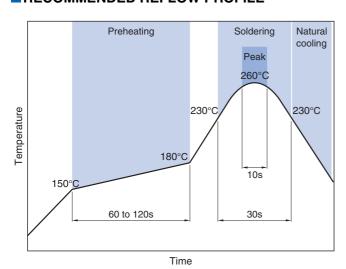
TAPE DIMENSIONS



Dimensions in mm

Туре	Α	В	K
VAF201610FA-1	1.9±0.1	2.3±0.1	1.10±0.05

■ RECOMMENDED REFLOW PROFILE



PACKAGE QUANTITY

Package quantity	2000 pcs/reel

■TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating	Storage	Individual
temperature range*	temperature range**	weight
−40 to +105 °C	−40 to +105 °C	15 mg

Operating temperature range includes self-temperature rise.

^{**} The storage temperature range is for after the assembly.



REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using this products.

⚠ REMINDERS
The storage period is less than 12 months. Be sure to follow the storage conditions (temperature: 5 to 30°C, humidity: 10 to 75% RH (less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
On not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
 Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
 Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
 Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermodesign.
 Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.
Use a wrist band to discharge static electricity in your body through the grounding wire.
On not expose the products to magnets or magnetic fields.
On not use for a purpose outside of the contents regulated in the delivery specifications.
The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to societ

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment

person or property.

(4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (5) Atomic energy-related equipment
- (6) Seabed equipment
- (7) Transportation control equipment

- (8) Public information-processing equipment
- (9) Military equipment
- (10) Electric heating apparatus, burning equipment
- (11) Disaster prevention/crime prevention equipment
- (12) Safety equipment
- (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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