

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









VAF201610FA-1 type













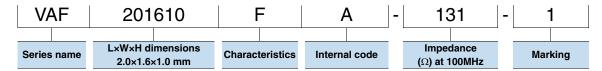
FEATURES

- 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.

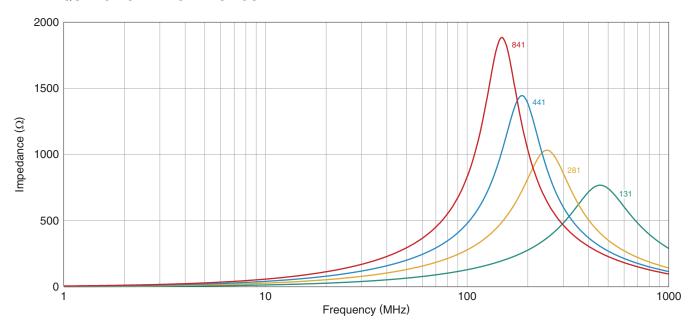




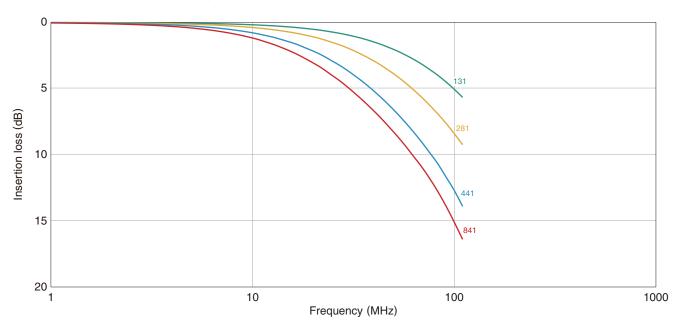


VAF201610FA-1 type

Z FREQUENCY CHARACTERISTICS



■INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



Measurement equipment

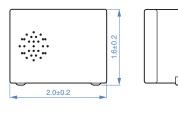
Product No.	Manufacturer
4294A	Keysight Technologies

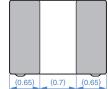
^{*} Equivalent measurement equipment may be used.



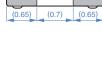
VAF201610FA-1 type

■SHAPE & DIMENSIONS





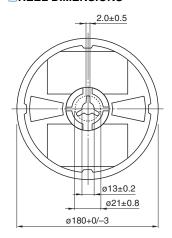


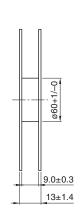


Dimensions in mm

■PACKAGING STYLE

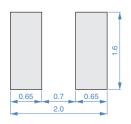
□REEL DIMENSIONS





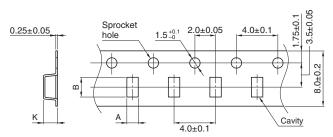
Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

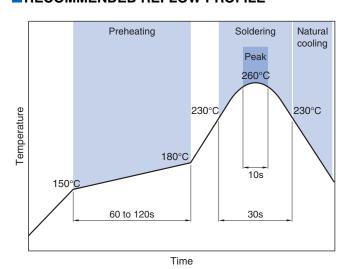
TAPE DIMENSIONS



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 guantity	2000 pcs/reel

■TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range*	Storage temperature range**	Individual 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% RI less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate.	H or
On ont 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. 	ture
 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 du the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.	e to
 Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set ther design. 	mal
 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 eq ment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement eq ment, 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 q ity require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to social	uip- Jual-

- (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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