



3-terminal filters

For power line

ACH series

ACH32C type

ACH32C

[1206 inch]*

* Dimensions Code JIS[EIA]



The products in this catalog is not recommended to a new design

Please refer to our Web site about replacement information.



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 these products.

<u></u> RE	MINDERS
The storage period is less than 12 months. Be sure to follow the or less).	e storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH
If the storage period elapses, the soldering of the terminal elect	rodes 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 does not exceed 150°C. 	ure difference between the solder temperature and chip temperature
 Soldering corrections after mounting should be within the range If overheated, a short circuit, performance deterioration, or lifes 	
 When embedding a printed circuit board where a chip is mounted the overall distortion of the printed circuit board and partial distortion. 	ed to a set, be sure that residual stress is not given to the chip due to ortion such as at screw tightening portions.
 Self heating (temperature increase) occurs when the power is to design. 	urned ON, so the tolerance should be sufficient for the set thermal
 Carefully lay out the coil for the circuit board design of the non-r A malfunction may occur due to magnetic interference. 	nagnetic shield type.
Use a wrist band to discharge static electricity in your body thro	ugh 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 th	e delivery specifications.
equipment, industrial robots) under a normal operation and use The products are not designed or warranted to meet the require	r equipment, personal equipment, office equipment, measurement
society, person or property. If you intend to use the products in the applications listed below	or if you have special requirements exceeding the range or conditions

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



3-terminal filters

For power line

Product compatible with RoHS directive
Halogen-free
Compatible with lead-free solders

Overview of ACH32C type

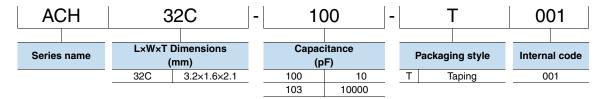
FEATURES

- T-type EMC filter that can be used for high-current circuits.
- Achieve excellent attenuation characteristics by using it for circuits with stable grounds.
- Oboes not require mounting space due to vertical mounting design, making it perfect for high-density circuits.
- Oguaranteed temperature range is -40 to +125°C, so it can be used under severe environmental conditions.
- Use this product under reflow soldering conditions.

APPLICATION

- O HE devices (TVs, VTRs, CD players, electronic musical instruments, PCs, etc.)
- OA equipment (Computers, terminals, facsimiles, etc.)
- OFA equipment (Robots, NC machine tools, process controllers, etc.)
- O AE equipment (Car navigation systems, etc.)

PART NUMBER CONSTRUCTION



■ OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

	Temperat	ure range	Package quantity	Individual weight
Type	Operating	Storage		
Туре	temperature	temperature*		
	(°C)	(°C)	(pieces/reel)	(mg)
ACH32C	-40 to +125	-40 to +125	2,000	70

^{*} The Storage temperature range is for after the circuit board is mounted.

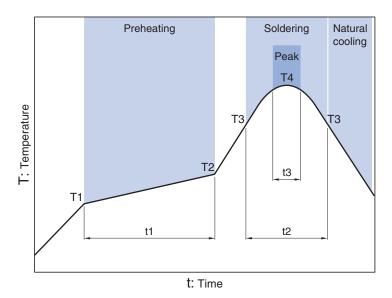
RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

O Halogen-free: Indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.



ACH32C type

■ RECOMMENDED REFLOW PROFILE

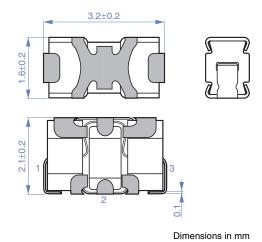


Preheating		Soldering	l	Peak		
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	30 to 60s	250 to 260°C	10s max.



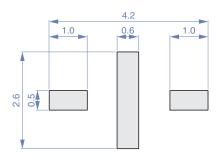
ACH32C type

■SHAPE & DIMENSIONS



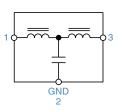


■ RECOMMENDED LAND PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



• No polarity



ACH32C type

■ ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

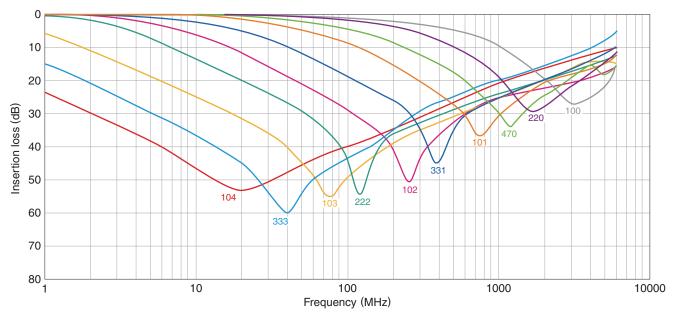
Rated voltage	Rated current	Insulation resistance	DC resistance	Insertion loss	Frequency bandwidth	Part No.
(V)max.	(A)max.	(M Ω)min.	(m Ω)max.	(dB)min.	(MHz)	
50	6	100	2	15	2000 to 6000	ACH32C-100-T001
50	6	100	2	15	1300 to 2500	ACH32C-220-T001
50	6	100	2	15	650 to 2500	ACH32C-470-T001
50	6	100	2	20	450 to 1300	ACH32C-101-T001
50	6	100	2	20	200 to 800	ACH32C-331-T001
50	6	100	2	25	100 to 350	ACH32C-102-T001
50	6	100	2	25	55 to 300	ACH32C-222-T001
50	6	100	2	25	30 to 200	ACH32C-103-T001
50	6	100	2	25	10 to 300	ACH32C-333-T001
50	6	100	2	25	3.5 to 200	ACH32C-104-T001

$\bigcirc \ \text{Measurement equipment}$

Measurement item	Product No.	Manufacturer
Insertion loss	E5071B	Keysight Technologies
DC resistance 4338A		Keysight Technologies
Insulation resistance	4339A	Keysight Technologies

^{*} Equivalent measurement equipment may be used.

☐ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



 $\bigcirc \ \text{Measurement equipment}$

Product No.	Manufacturer
E5071B	Keysight Technologies

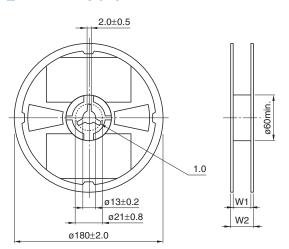
^{*} Equivalent measurement equipment may be used.



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■PACKAGING STYLE

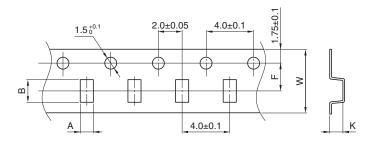
REEL DIMENSIONS



Type	W1	W2	
ACH32C	9±0.3	13+1.4	

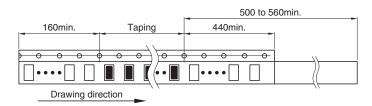
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Type	Α	В	F	W	K
ACH32C	1.9±0.1	3.5±0.1	3.5±0.05	8.0±0.2	2.3±0.1



Dimensions in mm