

April 2018

3-terminal filters

For power line

ACH series

ACH32C type

ACH32C

[1206 inch]*

* Dimensions Code JIS[EIA]

A Caution

The products in this catalog will be or have been stopped production

Discontinue Issue Date	Nov 15, 2017
Last Purchase Order Date	Mar. 29, 2019
Last Shipment Date	Oct. 31, 2019

Please refer to our Web site about replacement information.

EMC Components

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.

▲ REMINDERS O The storage period is less than 12 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH or less). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. O Do 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. O 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 to 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 thermal design. 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. O Do not expose the products to magnets or magnetic fields. O Do not use for a purpose outside of the contents regulated in the delivery specifications. O 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 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 set forth in the each catalog, please contact us. (8) Public information-processing equipment (1) Aerospace/Aviation equipment (2) Transportation equipment (cars, electric trains, ships, etc.) (9) Military equipment (3) Medical equipment (10) Electric heating apparatus, burning equipment (4) Power-generation control equipment (11) Disaster prevention/crime prevention equipment (12) Safety equipment (5) Atomic energy-related equipment (6) Seabed equipment (13) Other applications that are not considered general-purpose (7) Transportation control equipment 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.

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EMC Components

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.
- O Achieve excellent attenuation characteristics by using it for circuits with stable grounds.
- O Does not require mounting space due to vertical mounting design, making it perfect for high-density circuits
- Guaranteed 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.)
- FA equipment (Robots, NC machine tools, process controllers, etc.)
- O AE equipment (Car navigation systems, etc.)

PART NUMBER CONSTRUCTION

ACH	3	32C	-	1	00		-		Т	0	01
						<u> </u>	(
Series name	L×W×T Dimensions			Capacitance Packaging style		Internal code					
Series name		(mm)		(1	pF)			1 acr	taging style	interi	
	32C	3.2×1.6×2.1		100		10		Ţ	Taping		001
				103	10	0000					

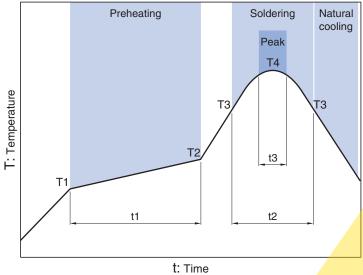
OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT



Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

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RECOMMENDED REFLOW PROFILE



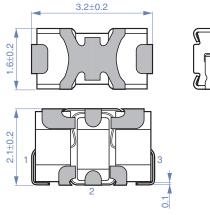


Preheatir	ng		Soldering	3	Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	Т3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	30 to 60s	250 to 260°C	10s max.

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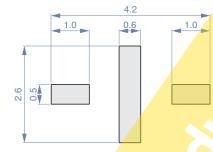
⊗TDK

SHAPE & DIMENSIONS



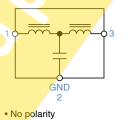
Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

CIRCUIT DIAGRAM



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ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

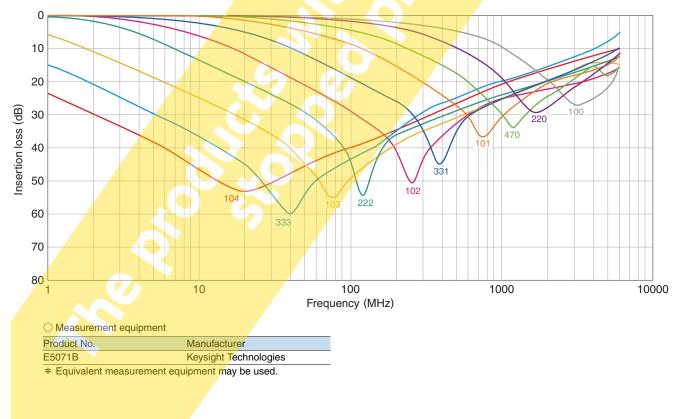
Rated voltage	Rated current	Insulation resistance	DC resistance	Insertion loss	Frequency bandwidth	Part No.
(V)max.	(A)max.	(MΩ)min.	(m Ω)max.	(dB)min.	(MHz)	
50	6	100	2	15	2000 to 6000	ACH32C-100-T001
50	6	100	2	15	1300 to 2500	ACH32C-220-T001
50	6	100	2	15	650 to 2500	ACH32C-470-T001
50	6	100	2	20	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 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

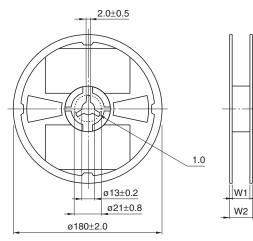


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PACKAGING STYLE

REEL DIMENSIONS



Dimensions in mm

ø 60min

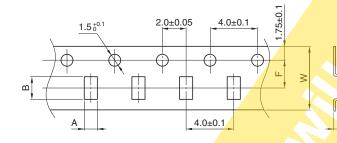
W1

9±0.3

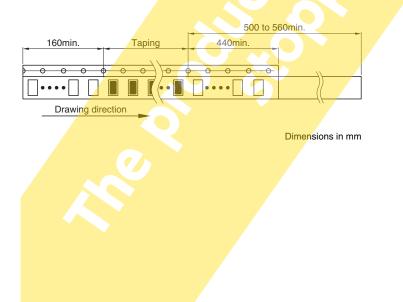
Type ACH32C W2

13+1.4

TAPE DIMENSIONS



				Dime	ensions in mm
Туре	A	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



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