

January 2019

3-terminal filters

For large-current power line

YFF-HC series

YFF31HC 3216 [1206 inch]* Feed through filter

* Dimensions Code JIS[EIA]

3-terminal filters

For large-current power line

Overview of the YFF-HC series

FEATURES

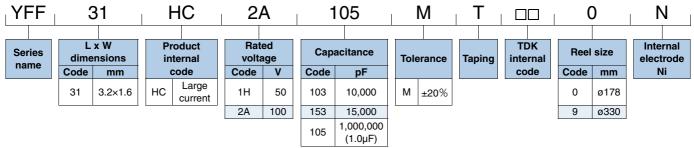
○ Small and high-performance EMC components.

- O Good attenuation characteristic in a wide band range.
- OFor large current (6A to 10A) applications.

APPLICATION

Power line of AV (LCD, PDP) products and information products (PC, server). Countermeasures against power-supply noise of communications infrastructure PA.

PART NUMBER CONSTRUCTION



PACKAGING STYLE AND SPECIFICATIONS

Туре	Package quantit	Individual weight (g)		
Type	ø178	ø330	munuuuai weigini (g)	
YFF31HC	2,000	10,000	0.0342	

Conformity to RoHS directive: this means that, in conformity with EU directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific brominebased flame retardants, PBB and PBDE, have not been used, except for exempted applications.

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.

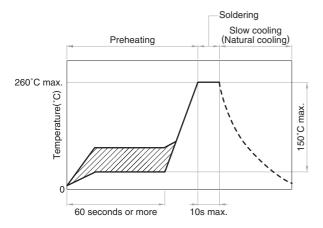
Please contact our Sales office when your application is considered the following: The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

⊗TDK

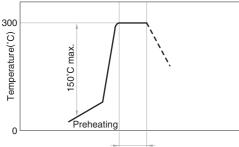
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Overview of the YFF-HC series

RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



HAND SOLDERING



Make as short as possible (within three seconds)

REMINDERS FOR USING THESE PRODUCTS

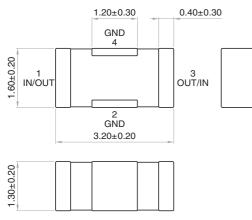
- \bigcirc Before soldering, be sure to preheat components. The Δ T preheating temperature must be 150°C max. with attention paid to thermal shock.
- \bigcirc Natural cooling of components in the air is recommended. On the other hand, when dipping them in a solvent for purposes, such as cleaning, make sure that the temperature difference (Δ T) is 100°C.
- When performing hand soldering for circuit modification, apply the soldering iron to the copper foil area of the printed circuit board for 3 seconds or less. The temperature of the iron tip should not exceed 300°C.
- ○Use a wrist band to discharge static electricity in your body through the grounding wire.
- When incorporating the printed circuit board on which this product is mounted into a frame, etc., do not apply stress to the product through local bending of the board by tightening of screws, etc.

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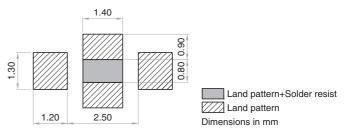
YFF-HC series

YFF31HC type (Feed through filter)

SHAPE & DIMENSIONS



RECOMMENDED LAND PATTERN



* Make sure to connect the GND terminal of this product and the GND of the mounting circuit board by using through holes so that the distance between them is the shortest.

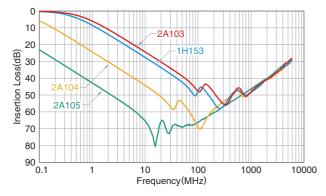
ELECTRICAL CHARACTERISTICS CHARACTERISTICS SPECIFICATION TABLE

	ertion loss B frequency range Iz)	Rated voltage Edc (V)	Rated current Idc (A)	Operating temperature range (°C)	Storage temperature range (After mount) (°C)	Part No.*
0.8	3 to 2000	100	6	–55 to +125	–55 to +125	YFF31HC2A105MT000N
0.8	3 to 2000	100	6	-55 to +125	–55 to +125	YFF31HC2A105MT009N
7	to 2000	100	10	–55 to +125	–55 to +125	YFF31HC2A104MT000N
7	to 2000	100	10	–55 to +125	–55 to +125	YFF31HC2A104MT009N
40	to 2000	50	10	–55 to +125	–55 to +125	YFF31HC1H153MT000N
40	to 2000	50	10	–55 to +125	–55 to +125	YFF31HC1H153MT009N
60	to 2000	100	10	–55 to +125	–55 to +125	YFF31HC2A103MT000N
60	to 2000	100	10	-55 to +125	-55 to +125	YFF31HC2A103MT009N

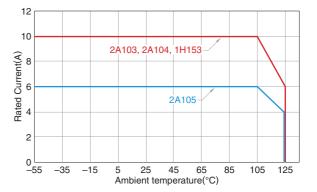
* The part numbers are TDK's standard specification products.

ELECTRICAL CHARACTERISTICS GRAPH (EXAMPLE)

□ INSERTION LOSS VS. FREQUENCY CHARACTERISTICS



RATED CURRENT VS. TEMPERATURE CHARACTERISTICS (DERATING)

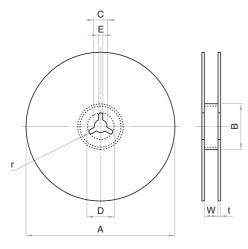


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公TDK

YFF-HC series Packaging style

REEL DIMENSIONS

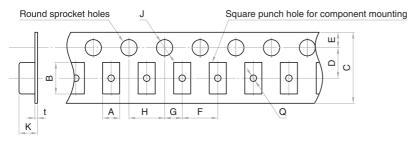


Unit:	mm
Unit.	

Reel	А	В	С	D	E	W	t	r
ø178	ø178±2.0	ø60±2.0	ø13±0.5	ø21±0.8	2.0±0.5	9.0±0.3	2.0±0.5	1.0
ø330	ø382 max.(ø330 nom.)	ø50 min.	ø13±0.5	ø21±0.8	2.0±0.5	10.0±1.5	2.0±0.5	1.0

TAPE DIMENSIONS

Plastic tape



												Unit: mm
Туре	А	В	С	D	E	F	G	Н	J	К	t	Q
YFF31HC	1.90 typ.	3.50 typ.	8.00±0.30	3.5±0.05	1.75±0.10	4.00±0.10	2.0±0.05	4.00±0.10	ø1.5+0.10/–0	2.50 max.	0.30 max.	ø0.50 min.

A 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.