

July 2015

3-terminal Filters

For Large-current Power Line

YFF-HC Series

YFF31HC 3216 [1206 inch]* Feed through filter

* Dimensions Code JIS[EIA]

EMC Components



3-terminal Filters

For Large-current Power Line

Conformity to RoHS Directive Lead-free Compatible

Overview of YFF-HC Series

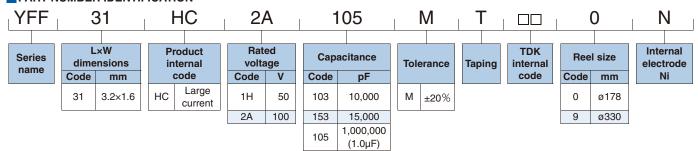
FEATURES

- Small and high-performance EMC components.
- O Good attenuation characteristic in a wide band range.
- O For large current (6A to 10A) applications.

APPLICATIONS

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

PART NUMBER IDENTIFICATION



PACKAGING STYLE AND SPECIFICATIONS

	Type	Package quantit	Single weight (g)		
	туре	ø178	ø330	Siligle weight (g)	
	YFF31HC	2,000	10,000	0.0342	

Oconformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

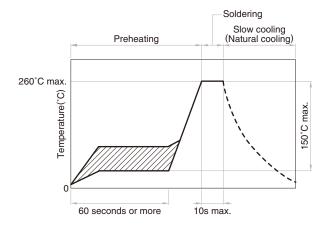
OPlease contact our Sales office when your application is considered the following:

The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

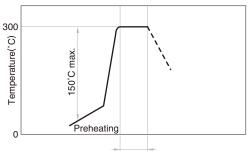
Overview of YFF-HC Series

RECOMMENDED SOLDERING CONDITION

□ REFLOW SOLDERING



☐HAND SOLDERING



Make as short as possilble (within three seconds)

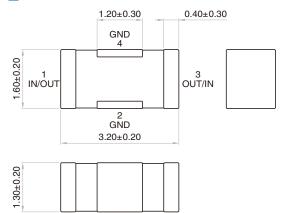
PRECAUTIONS FOR USE

- \bigcirc Before soldering, be sure to preheat components. The ΔT preheating temperature must be 150°C max. with attention paid to thermal shock.
- ONatural 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 (ΔT) is 100°
- 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.

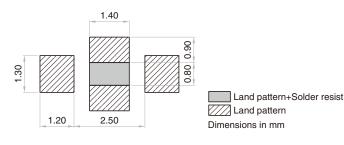


YFF-HC Series YFF31HC Type(Feed Through Filter)

SHAPES AND DIMENSIONS



RECOMMENDED LAND PATTERN



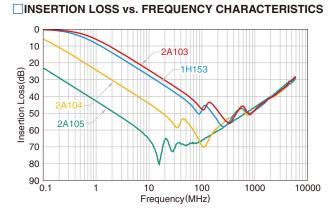
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

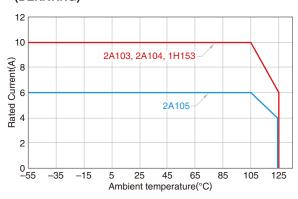
Insertion loss 40dB bandwidth	Rated voltage Edc	Rated current	Operating temperature range	Storage temperature range(After mount)	Part No.*
(MHz)	(V)	(A)	(°C)	(°C)	rait NO.
0.8 to 2000	100	6	-55 to 125	-55 to 125	YFF31HC2A105MT00 ☐ N
7 to 2000	100	10	-55 to 125	-55 to 125	YFF31HC2A104MT00 ☐ N
40 to 2000	50	10	-55 to 125	-55 to 125	YFF31HC1H153MT00 ☐ N
60 to 2000	100	10	-55 to 125	-55 to 125	YFF31HC2A103MT00 ☐ N

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

ELECTRICAL CHARACTERISTICS GRAPH (EXAMPLE)



☐ RATED CURRENT vs. TEMPERATURE CHARACTERISTICS (DERATING)



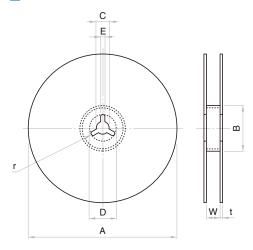
^{*} Make sure to connect the GND terminal of this product and the GND of the mounting circuit board by using through holes so that the distance between them is the shortest.

^{* □:} Please specify reel size code, 0 (ø178) or 9 (ø330)



YFF-HC Series Packing Style

REEL DIMENSIONS

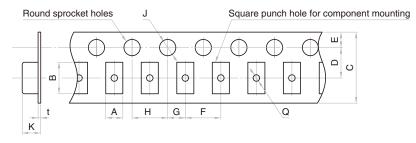


Dimensions in mm

Reel	A	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



Dimensions in mm

Type	Α	В	C	D	E	F	G	Н	J	K	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.

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.