

Chip Beads

For Power Line

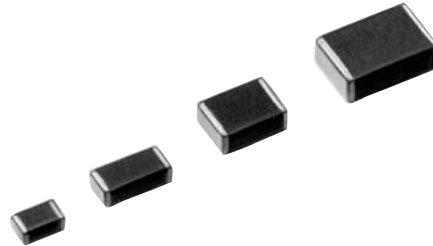
Conformity to RoHS Directive

ACC Series

HFxxACC2012, HFxxACC3216, HFxxACC3225, HFxxACC4532

FEATURES

- With 4 types rated at 1.5A and 3 types rated at 3A, and with a range of frequency characteristics available for each type, the ACC series facilitates selection of the most appropriate part for any given application.
- Effective EMC suppression over a broad band can be achieved simply by inserting this product into the DC power line on the circuit board.
- Available reflow soldering.
- It is a product conforming to RoHS directive.



PRODUCT IDENTIFICATION

HF70	ACC	201209	-	T
(1)	(2)	(3)		(4)

- (1) Material name
 (2) Series name
 (3) Dimension code
 (4) Packaging style
 T: ø180mm reel taping
 TL: ø330mm reel taping

SPECIFICATIONS

Operating temperature range	-40 to +125°C
Storage temperature range	-40 to +125°C(After mount)

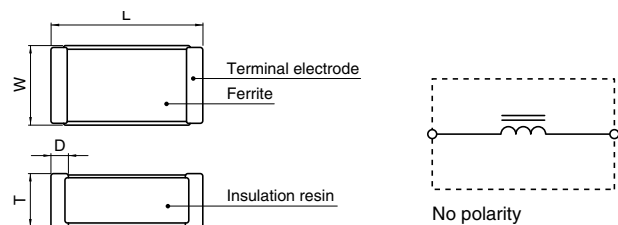
PACKAGING STYLE AND QUANTITIES

Packaging style	Type	Quantity
Taping	201209	2000 pieces/reel
	321611	2000 pieces/reel
	322513	2000 pieces/reel
	453215	1000 pieces/reel

HANDLING AND PRECAUTIONS

- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and product temperature does not exceed 150°C.
- After mounting components onto the printed circuit board, do not apply stress through board bending or mishandling.
- Do not expose the inductors to stray magnetic fields.
- Avoid static electricity discharge during handling.
- When hand soldering, apply the soldering iron to the printed circuit board only. Temperature of the iron tip should not exceed 350°C. Soldering time should not exceed 3 seconds.

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM

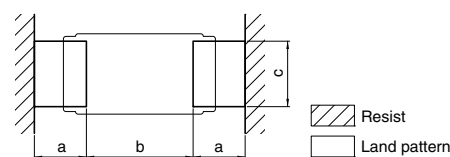


Dimensions in mm

Type	L	W	T	D
201209	2.0±0.2	1.25±0.2	0.9±0.2	0.3±0.2
321611	3.2±0.2	1.6±0.2	1.1±0.2	0.3±0.2
322513	3.2±0.2	2.5±0.2	1.3±0.2	0.3±0.2
453215	4.5±0.25	3.2±0.25	1.5±0.25	0.3±0.2

• Dimension without tolerance is reference value.

RECOMMENDED PC BOARD PATTERN REFLOW SOLDERING



Dimensions in mm

Type	a	b	c
201209	1.0	1.0	1.0
321611	1.1	2.2	1.4
322513	1.1	2.2	2.3
453215	1.5	3.0	3.0

• Conformity 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.

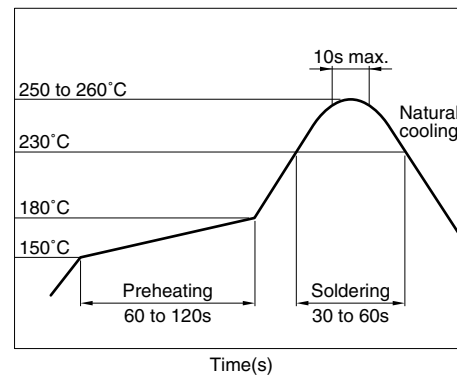
• Please contact our Sales office when your application is considered the following:
 The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

• All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

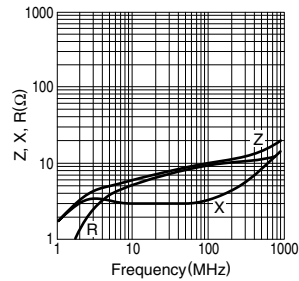
Shape	Part No.	Impedance (Ω)[100MHz]	DC resistance (Ω)max.	Rated current (A)max.
201209	HF70ACC201209	10 $\pm$ 25%	0.03	1.5
	HF50ACC201209	11 $\pm$ 25%	0.03	1.5
	HF30ACC201209	7 $\pm$ 25%	0.03	1.5
321611	HF70ACC321611	26 $\pm$ 25%	0.04	1.5
	HF50ACC321611	31 $\pm$ 25%	0.04	1.5
	HF30ACC321611	19 $\pm$ 25%	0.04	1.5
322513	HF70ACC322513	52 $\pm$ 25%	0.05	1.5
	HF50ACC322513	60 $\pm$ 25%	0.05	1.5
	HF30ACC322513	31 $\pm$ 25%	0.05	1.5
453215	HF70ACC453215	120 $\pm$ 25%	0.05	1.5
	HF50ACC453215	125 $\pm$ 25%	0.05	1.5
	HF30ACC453215	70 $\pm$ 25%	0.05	1.5

RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING

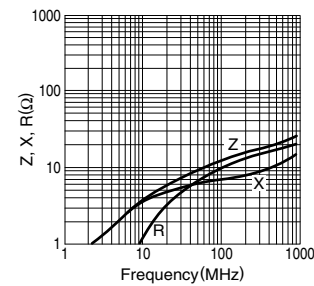


TYPICAL ELECTRICAL CHARACTERISTICS Z, X, R vs. FREQUENCY CHARACTERISTICS

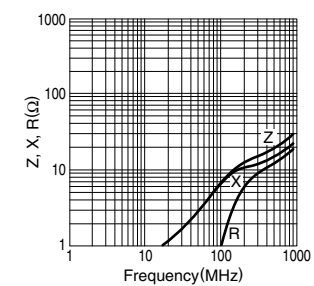
HF70ACC201209



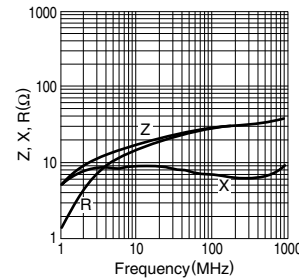
HF50ACC201209



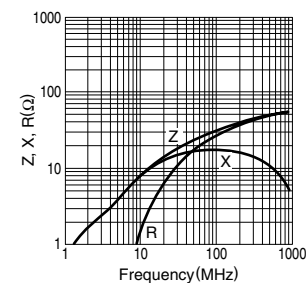
HF30ACC201209



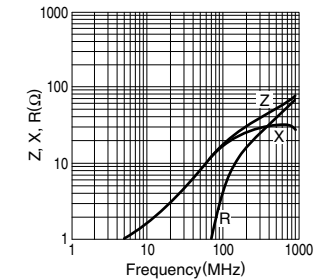
HF70ACC321611



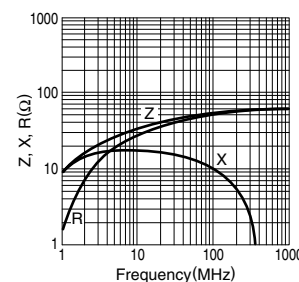
HF50ACC321611



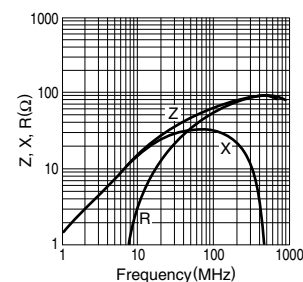
HF30ACC321611



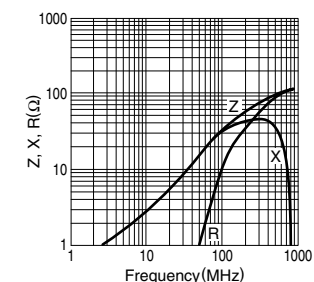
HF70ACC322513



HF50ACC322513



HF30ACC322513



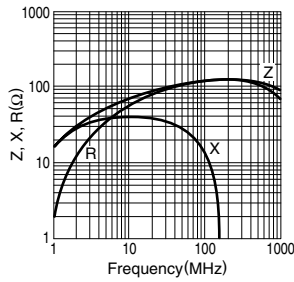
• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A

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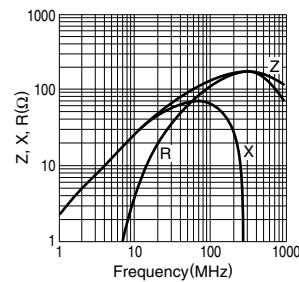
TYPICAL ELECTRICAL CHARACTERISTICS

Z, X, R vs. FREQUENCY CHARACTERISTICS

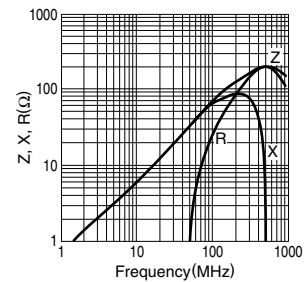
HF70ACC453215



HF50ACC453215



HF30ACC453215

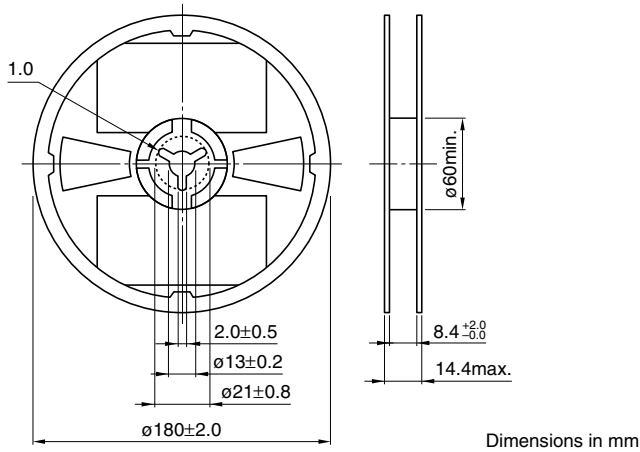


• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A

PACKAGING STYLES

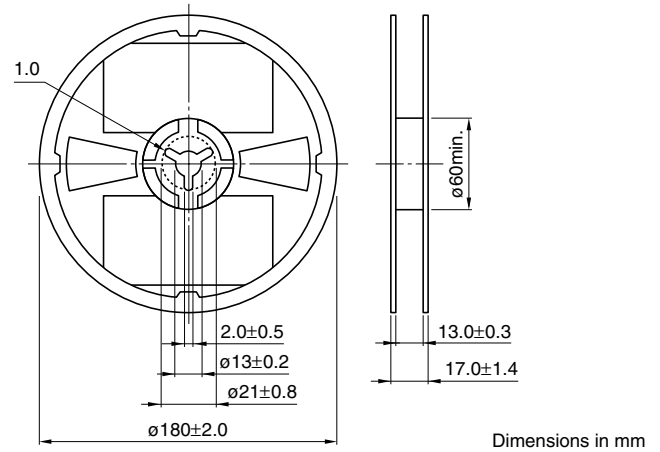
201209 TO 322513 TYPES

REEL DIMENSIONS

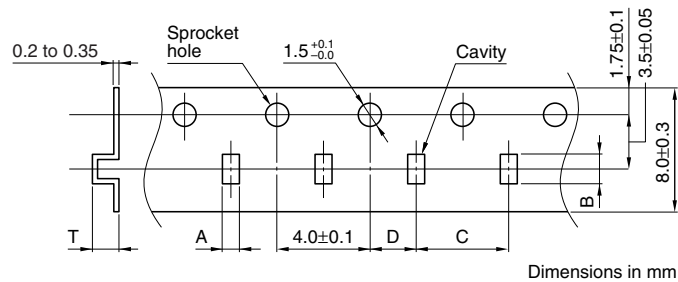


453215 TYPE

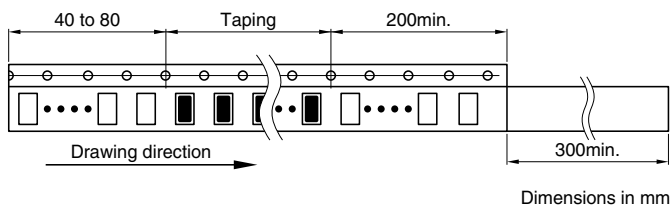
REEL DIMENSIONS



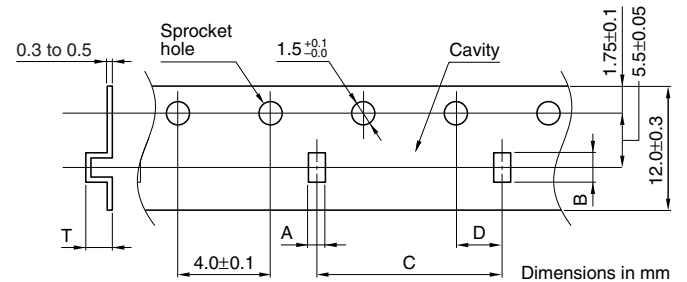
TAPE DIMENSIONS



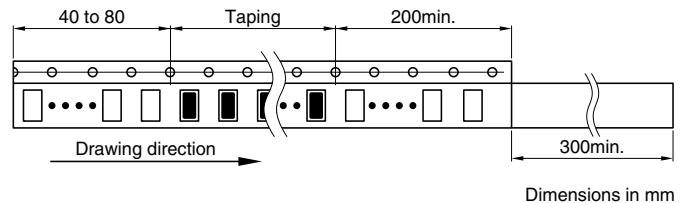
Type	A	B	C	D	T
201209	1.4±0.1	2.25±0.1	4.0±0.1	2.0±0.05	1.25max.
321611	1.75±0.1	3.45±0.1	4.0±0.1	2.0±0.05	1.4max.
322513	2.6±0.1	3.45±0.1	4.0±0.1	2.0±0.05	1.6max.



TAPE DIMENSIONS



Type	A	B	C	D	T
453215	3.37±0.1	4.75±0.1	8.0±0.1	2.0±0.05	1.8max.



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