

EMC Components

Ferrite Beads SMD

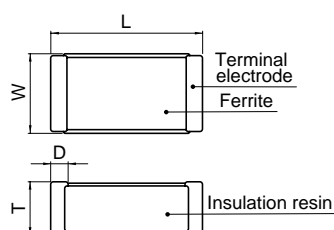
HF70ACB, HF50ACB, HF30ACB Series

FEATURES

- This extensive series completely covers impedance values ranging from 7 to 125Ω[100MHz] and can be applied to a wide range of circuits.
- The 2012, 3216, 3225 and 4532 types all use HF70, 50 and 30 materials. The most suitable component can be selected for the circuit pattern and the suppression band.
- These components are applicable for both flow and reflow solderings, and have outstanding physical characteristics such as excellent terminal strength, body strength, resistance to soldering heat, solderability and mounting reliability.



SHAPES AND DIMENSIONS

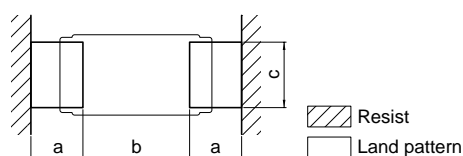


Dimensions in mm

Type	L	W	T	D
201209	2±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

RECOMMENDED PC BOARD PATTERNS

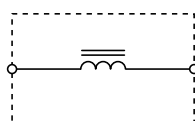
REFLOW AND FLOW SOLDERINGS



Dimensions in mm

Type	a	b	c
201209	1	1	1
321611	1.1	2.2	1.4
322513	1.1	2.2	2.3
453215	1.5	3	3

CIRCUIT DIAGRAM



No directionality

PRODUCT IDENTIFICATION

HF70 ACB 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

ELECTRICAL CHARACTERISTICS

Type	Part No.	Impedance (Ω)[100MHz]	DC resistance (Ω)max.	Rated current (mA)max.
201209	HF70ACB201209-□*	10±25%	0.1	600
	HF50ACB201209-□	11±25%	0.1	600
	HF30ACB201209-□	7±25%	0.1	600
321611	HF70ACB321611-□	26±25%	0.2	500
	HF50ACB321611-□	31±25%	0.2	500
	HF30ACB321611-□	19±25%	0.2	500
322513	HF70ACB322513-□	52±25%	0.3	400
	HF50ACB322513-□	60±25%	0.3	400
	HF30ACB322513-□	31±25%	0.3	400
453215	HF70ACB453215-□	120±25%	0.4	300
	HF50ACB453215-□	125±25%	0.4	300
	HF30ACB453215-□	70±25%	0.4	300

* □: Packaging style(T: Taping[ø180mm reel], TL: Taping[ø330mm reel])

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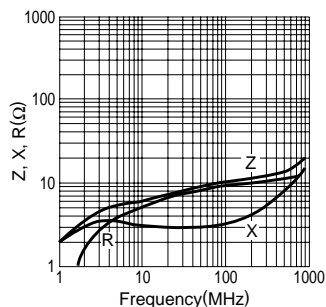
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TYPICAL ELECTRICAL CHARACTERISTICS

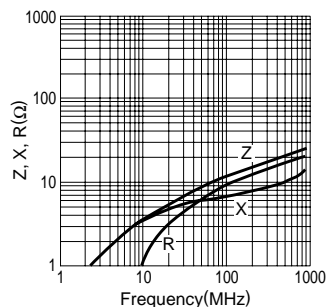
Z, X, R vs. FREQUENCY CHARACTERISTICS

ACB201209

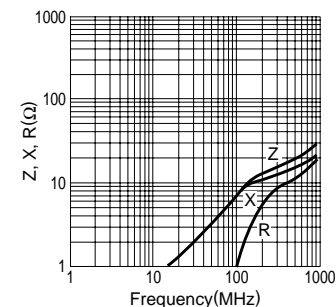
HF70ACB201209



HF50ACB201209

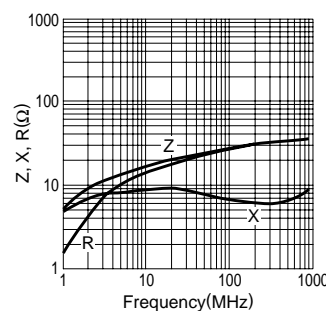


HF30ACB201209

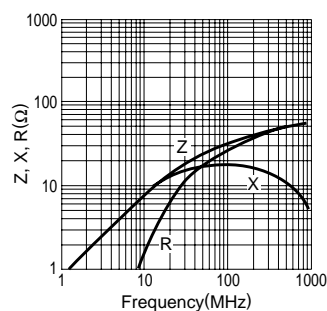


ACB321611

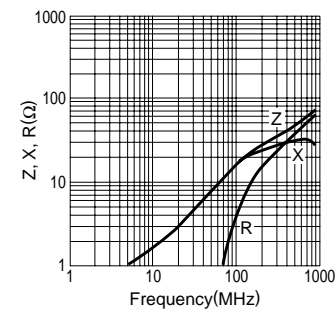
HF70ACB321611



HF50ACB321611

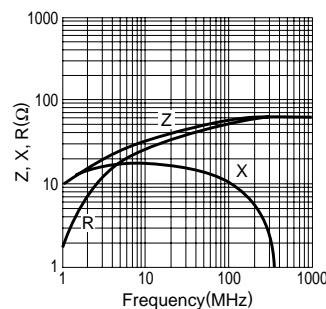


HF30ACB321611

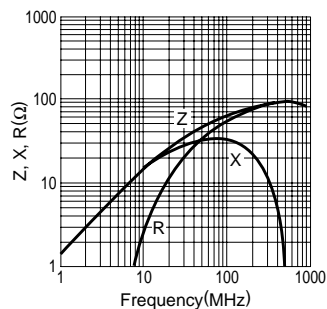


ACB322513

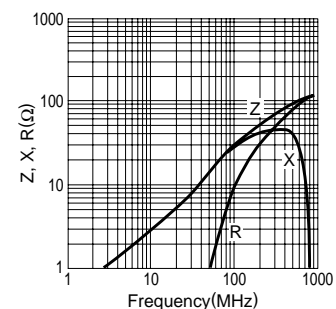
HF70ACB322513



HF50ACB322513

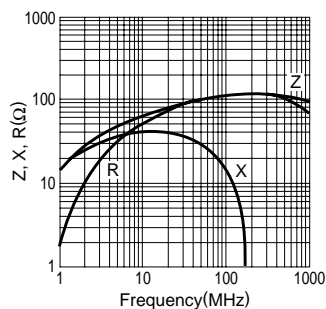


HF30ACB322513

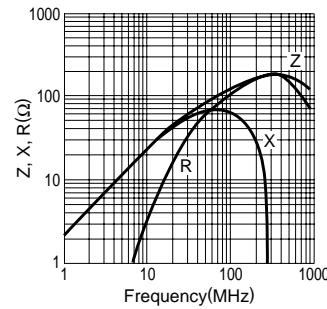


ACB453215

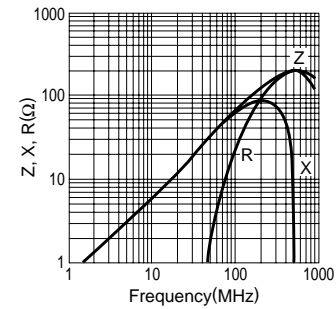
HF70ACB453215



HF50ACB453215



HF30ACB453215



• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A