

# EMC Components

## Ferrite Beads SMD

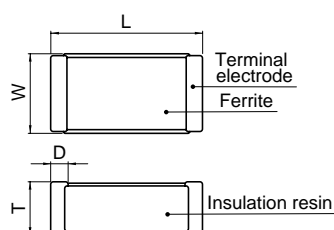
## HF70ACB, HF50ACB, HF30ACB Series

### 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

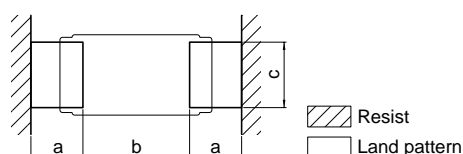


Dimensions in mm

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

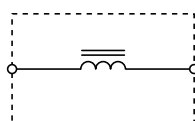
#### REFLOW AND FLOW SOLDERINGS



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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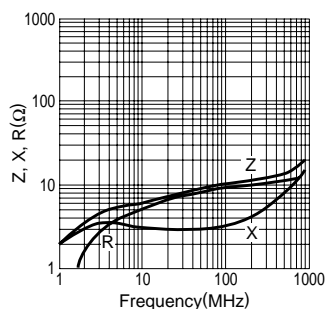
## HF70ACB, HF50ACB, HF30ACB Series

### TYPICAL ELECTRICAL CHARACTERISTICS

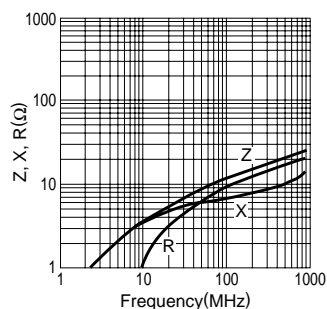
#### Z, X, R vs. FREQUENCY CHARACTERISTICS

##### ACB201209

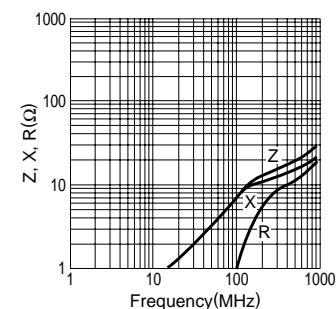
###### HF70ACB201209



###### HF50ACB201209

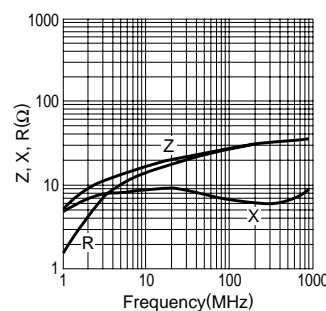


###### HF30ACB201209

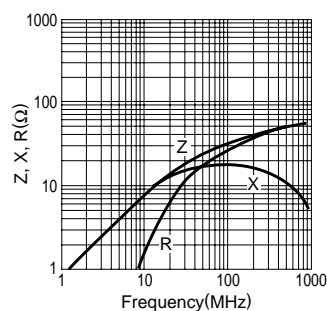


##### ACB321611

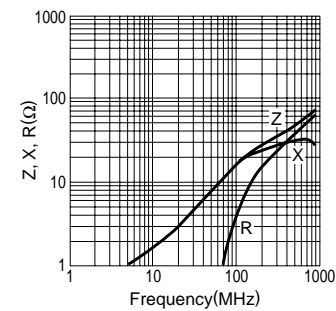
###### HF70ACB321611



###### HF50ACB321611

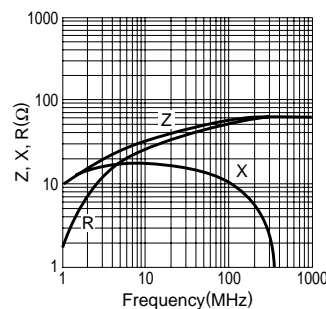


###### HF30ACB321611

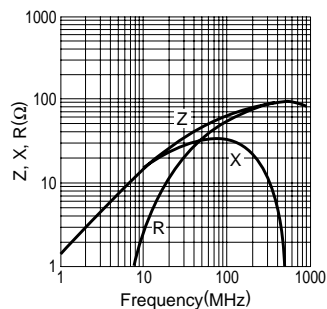


##### ACB322513

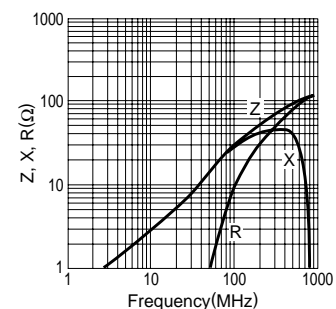
###### HF70ACB322513



###### HF50ACB322513

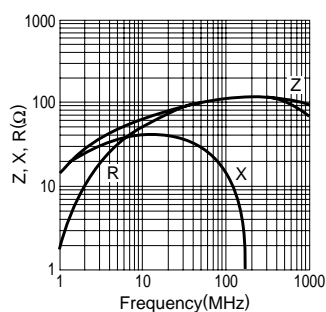


###### HF30ACB322513

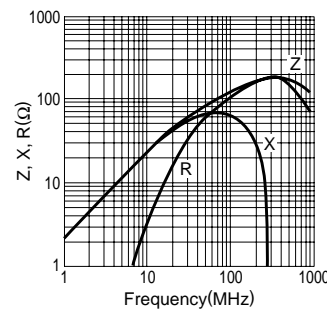


##### ACB453215

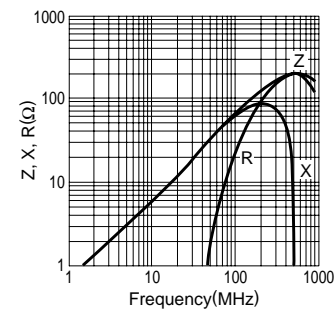
###### HF70ACB453215



###### HF50ACB453215



###### HF30ACB453215



• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A