



Chip Beads

For power line

HFxxACC series

HFxxACC2012	[0805 inch]*
HFxxACC3216	[1206 inch]
HFxxACC3225	[1210 inch]
HFxxACC4532	[1812 inch]

* Dimensions Code JIS[EIA]

REMINDERS FOR USING THESE PRODUCTS

Before using these products, be sure to request the delivery specifications.

SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

REMINDERS

- The storage period is less than 12 months. Be sure to follow the storage conditions (Temperature: 5 to 40°C, Humidity: 10 to 75% RH or less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
- Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, etc.).
- Before soldering, be sure to preheat components.
The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications.
If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Carefully lay out the coil for the circuit board design of the non-magnetic shield type.
A malfunction may occur due to magnetic interference.
- Use a wrist band to discharge static electricity in your body through the grounding wire.
- Do not expose the products to magnets or magnetic fields.
- Do not use for a purpose outside of the contents regulated in the delivery specifications.
- The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in the each catalog, please contact us.

(1) Aerospace/Aviation equipment
 (2) Transportation equipment (cars, electric trains, ships, etc.)
 (3) Medical equipment
 (4) Power-generation control equipment
 (5) Atomic energy-related equipment
 (6) Seabed equipment
 (7) Transportation control equipment

(8) Public information-processing equipment
 (9) Military equipment
 (10) Electric heating apparatus, burning equipment
 (11) Disaster prevention/crime prevention equipment
 (12) Safety equipment
 (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.

Chip Beads

For power line

Product compatible with RoHS directive

Halogen-free

Compatible with lead-free solders

Overview of the HFxxACC Series

FEATURES

- Noise reduction solution for power supply lines.
- Lineup includes 4 sizes from 201209 to 453215.
- Achieves various frequency characteristics by using 3 materials with different features.
- There is no directivity.

APPLICATION

Power supply line noise removal for DSCs, DVCs, PCs, TVs, printers, game machines, smart grids, wireless base stations, industrial equipment, automobiles, etc.

PART NUMBER CONSTRUCTION

HF70		ACC		201209		-	T	
Material name	Series name	LxWxT Dimensions		Packaging style				
		(mm)						
HF70		201209	2.0x1.25x0.9	T	Taping			
HF50		321611	3.2x1.6x1.1					
HF30		322513	3.2x2.5x1.3					
		453215	4.5x3.2x1.5					

OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

Type	Temperature range		Package quantity	Individual weight
	Operating temperature*	Storage temperature**		
	(°C)	(°C)		
HFxxACC2012	-40 to +125	-40 to +125	2,000	10
HFxxACC3216	-40 to +125	-40 to +125	2,000	22
HFxxACC3225	-40 to +125	-40 to +125	2,000	46
HFxxACC4532	-40 to +125	-40 to +125	1,000	94

* Operating temperature range includes self-temperature rise.

** The Storage temperature range is for after the circuit board is mounted.

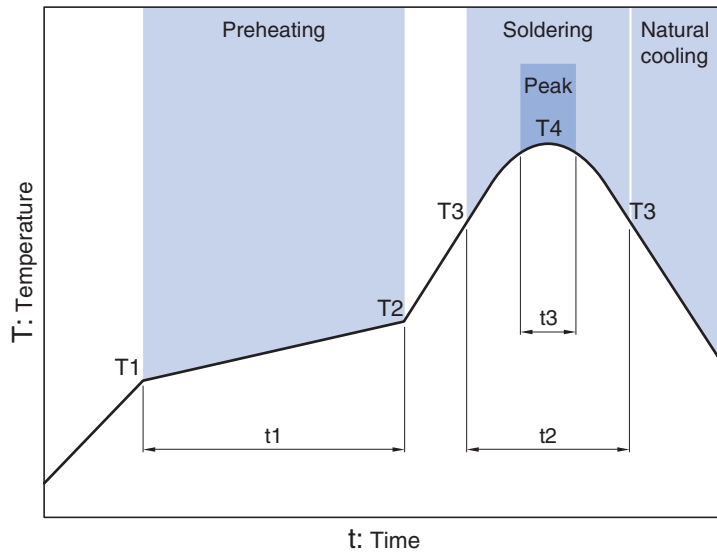
○ RoHS Directive Compliant Product: See the following for more details related to RoHS Directive compliant products. <http://www.tdk.co.jp/rohs/>

○ Halogen-free: Indicates that Cl content is less than 900ppm, Br content is less than 900ppm, and that the total Cl and Br content is less than 1500ppm.

• All specifications are subject to change without notice.

Overview of the HFxxACC Series

RECOMMENDED REFLOW PROFILE



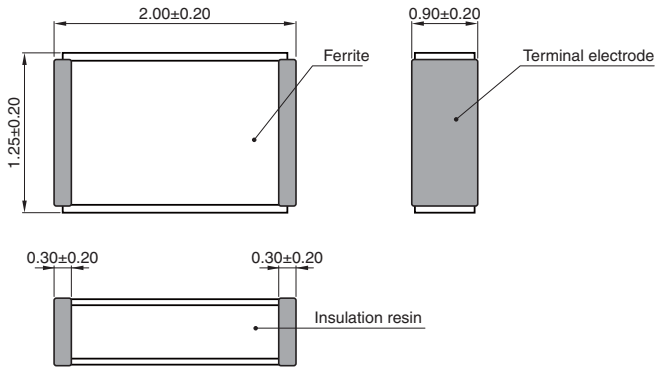
Preheating			Soldering		Peak	
Temp.	Temp.	Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	180°C	60 to 120s	230°C	30 to 60s	250 to 260°C	10s

HFxxACC series

HFxxACC2012 Type

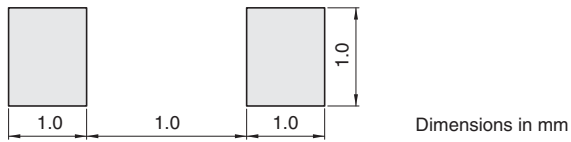


SHAPE & DIMENSIONS



Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

• All specifications are subject to change without notice.

HFxxACC series **HFxxACC2012 Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

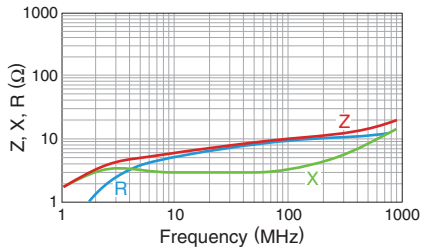
Impedance [100MHz]		DC resistance (Ω)max.	Rated current (A)max.	Part No.
(Ω)	Tolerance			
10	$\pm 25\%$	0.03	1.5	HF70ACC201209-T
11	$\pm 25\%$	0.03	1.5	HF50ACC201209-T
7	$\pm 25\%$	0.03	1.5	HF30ACC201209-T

HFxxACC series HFxxACC2012 Type

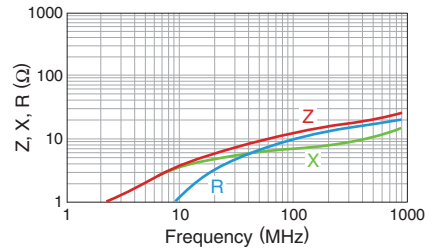
ELECTRICAL CHARACTERISTICS

Z, X, R VS. FREQUENCY CHARACTERISTICS

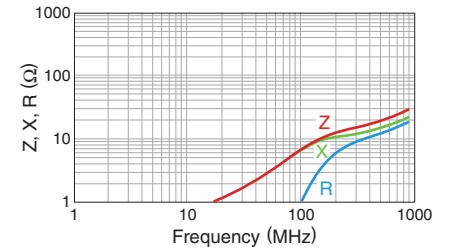
HF70ACC201209



HF50ACC201209



HF30ACC201209



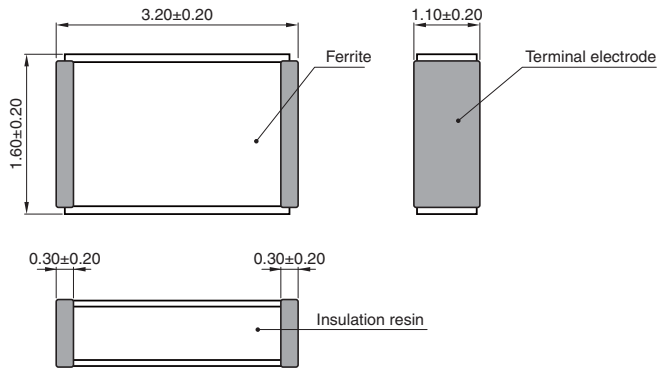
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HFxxACC series

HFxxACC3216 Type

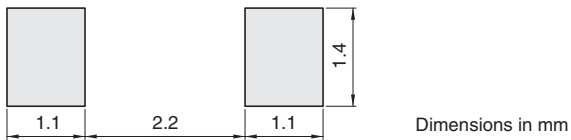


SHAPE & DIMENSIONS



Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

HFxxACC series **HFxxACC3216 Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

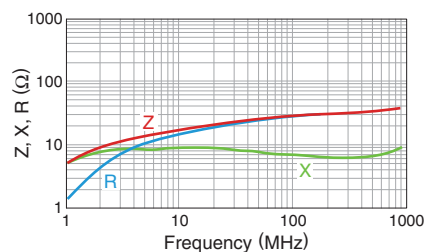
Impedance [100MHz]		DC resistance (Ω)max.	Rated current (A)max.	Part No.
(Ω)	Tolerance			
26	$\pm 25\%$	0.04	1.5	HF70ACC321611-T
31	$\pm 25\%$	0.04	1.5	HF50ACC321611-T
19	$\pm 25\%$	0.04	1.5	HF30ACC321611-T

HFxxACC series HFxxACC3216 Type

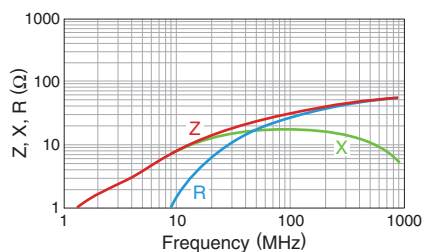
ELECTRICAL CHARACTERISTICS

Z, X, R VS. FREQUENCY CHARACTERISTICS

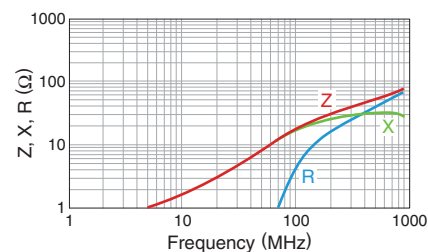
HF70ACC321611



HF50ACC321611



HF30ACC321611



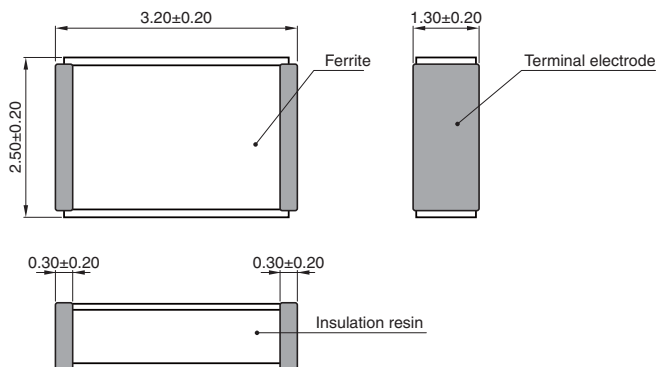
• All specifications are subject to change without notice.

HFxxACC series

HFxxACC3225 Type

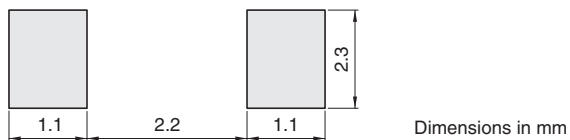


SHAPE & DIMENSIONS



Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

• All specifications are subject to change without notice.

HFxxACC series **HFxxACC3225 Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

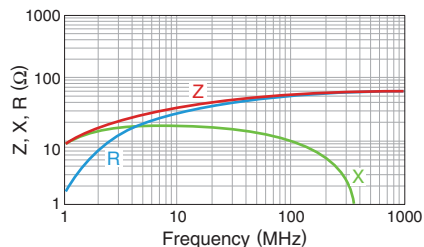
Impedance [100MHz]		DC resistance (Ω)max.	Rated current (A)max.	Part No.
(Ω)	Tolerance			
52	$\pm 25\%$	0.05	1.5	HF70ACC322513-T
60	$\pm 25\%$	0.05	1.5	HF50ACC322513-T
31	$\pm 25\%$	0.05	1.5	HF30ACC322513-T

HFxxACC series **HFxxACC3225 Type**

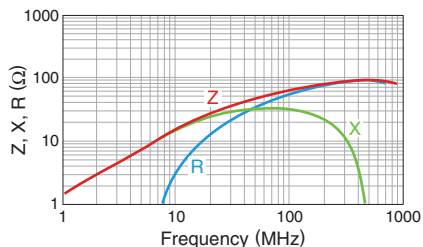
■ ELECTRICAL CHARACTERISTICS

□ Z, X, R VS. FREQUENCY CHARACTERISTICS

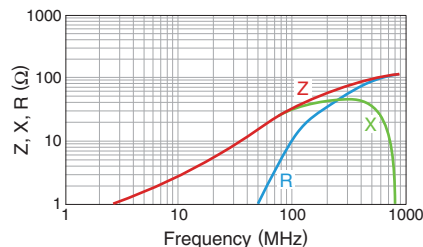
HF70ACC322513



HF50ACC322513



HF30ACC322513



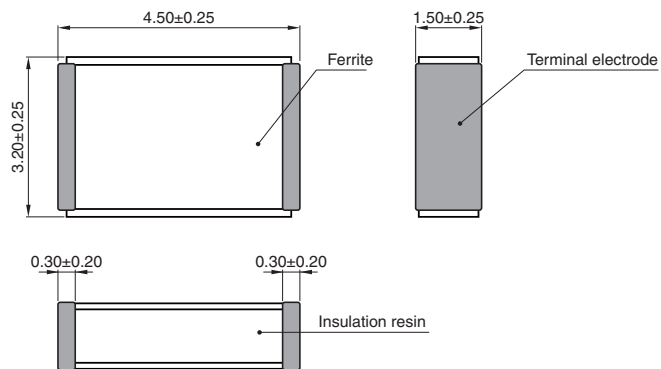
• All specifications are subject to change without notice.

HFxxACC series

HFxxACC4532 Type

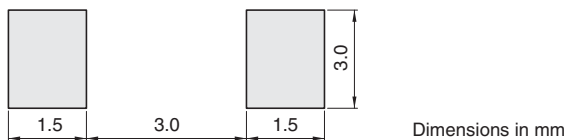


SHAPE & DIMENSIONS



Dimensions in mm

RECOMMENDED LAND PATTERN



Dimensions in mm

• All specifications are subject to change without notice.

HFxxACC series **HFxxACC4532 Type**

■ ELECTRICAL CHARACTERISTICS

□ CHARACTERISTICS SPECIFICATION TABLE

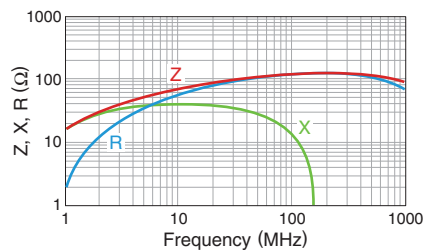
Impedance [100MHz]		DC resistance (Ω)max.	Rated current (A)max.	Part No.
(Ω)	Tolerance			
120	$\pm 25\%$	0.05	1.5	HF70ACC453215-T
125	$\pm 25\%$	0.05	1.5	HF50ACC453215-T
70	$\pm 25\%$	0.05	1.5	HF30ACC453215-T

HFxxACC series **HFxxACC4532 Type**

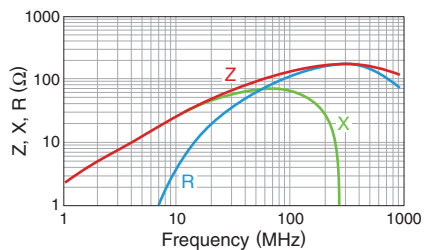
■ ELECTRICAL CHARACTERISTICS

□ Z, X, R VS. FREQUENCY CHARACTERISTICS

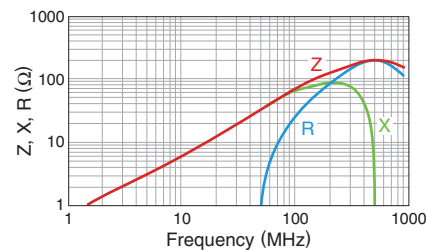
HF70ACC453215



HF50ACC453215



HF30ACC453215



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