

July 2016

Chip beads

For general signal line

HF-ACB series

HFxxACB4532 Type

HFxxACB4532

[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 this products.

| Ren | ninders |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The storage period is less than 12 months. Be sure to follow the st less). | corage conditions (temperature:5 to 40°C, humidity:10 to 75% RH or |
| If the storage period elapses, the soldering of the terminal electron | des may deteriorate. |
| \bigcirc Do not use or store in locations where there are conditions such a | s gas corrosion (salt, acid, alkali, etc.). |
| Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature does not exceed 150°C. | re difference between the solder temperature and chip temperature |
| Soldering corrections after mounting should be within the range of If overheated, a short circuit, performance deterioration, or lifespare | - |
| When embedding a printed circuit board where a chip is mounted the overall distortion of the printed circuit board and partial distortion | |
| Self heating (temperature increase) occurs when the power is tu design. | Irned ON, so the tolerance should be sufficient for the set thermal |
| Carefully lay out the coil for the circuit board design of the non-ma A malfunction may occur due to magnetic interference. | gnetic shield type. |
| \bigcirc Use a wrist band to discharge static electricity in your body throug | h the grounding wire. |
| \bigcirc Do not expose the products to magnets or magnetic fields. | |
| \bigcirc Do not use for a purpose outside of the contents regulated in the c | lelivery specifications. |
| ment, industrial robots) under a normal operation and use condition The products are not designed or warranted to meet the requirement ity require a more stringent level of safety or reliability, or whose far person or property. | ment, personal equipment, office equipment, measurement equip- |
| (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 applicatio tection circuit/device or providing backup circuits in your equipment. | ns, you are kindly requested to take into consideration securing pro- |

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Overview of HFxxACB4532 type

FEATURES

O Noise reduction solution for general signal line.

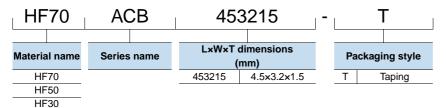
O Achieves various frequency characteristics by using 3 materials with different features.

O There is no directivity.

APPLICATION

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

PART NUMBER CONSTRUCTION



OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT

| | Temperate | ure ranges | Package quantity | Individual weight | |
|-------------|----------------------------------|---------------------------------|------------------|-------------------|--|
| Туре | Operating temperature (°C) | Storage temperature* (°C) | (pieces/reel) | (| |
| | | | (piecea/ieei) | (mg) | |
| HFxxACB4532 | -40 to +125 | -40 to +125 | 1,000 | 94 | |
| | | | | | |

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

O RoHS Directive Compliant Product: See the following for more details.https://product.tdk.com/info/en/environment/rohs/index.html

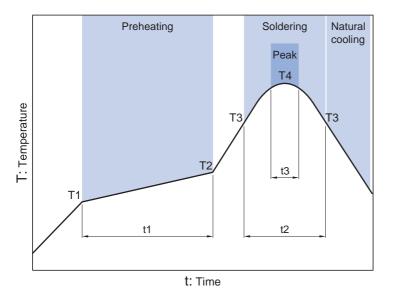
O Halogen-free: indicates that CI content is less than 900ppm, Br content is less than 900ppm, and that the total CI and Br content is less than 1500ppm.

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.

公TDK

HFxxACB4532 type

RECOMMENDED REFLOW PROFILE



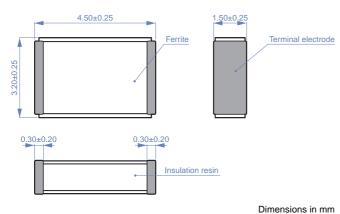
| Preheating | | Soldering | Soldering | | | |
|------------|-------|------------|-----------|-----------|--------------|------|
| Temp. | | Time | Temp. | Time | Temp. | Time |
| T1 | T2 | t1 | Т3 | t2 | T4 | t3 |
| 150°C | 180°C | 60 to 120s | 230°C | 30 to 60s | 250 to 260°C | 10s |

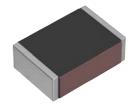
A Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.

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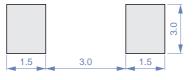
HFxxACB4532 type

SHAPE & DIMENSIONS





RECOMMENDED LAND PATTERN



Dimensions in mm

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HFxxACB4532 type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

| Impedance | | DC resistance | Rated current | Part No. |
|---------------------|-----------|-------------------------|---------------|-----------------|
| [100MHz] | | | | |
| (Ω) | Tolerance | (Ω)max. | (mA)max. | |
| 120 | ±25% | 0.4 | 300 | HF70ACB453215-T |
| 125 | ±25% | 0.4 | 300 | HF50ACB453215-T |
| 70 | ±25% | 0.4 | 300 | HF30ACB453215-T |

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HFxxACB4532 type

ELECTRICAL CHARACTERISTICS

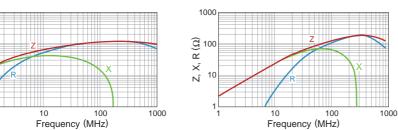
\Box Z, X, R VS. FREQUENCY CHARACTERISTICS

HF70ACB453215

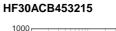
1000

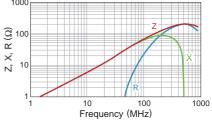
C, X, R (D) 100 I 10

1



HF50ACB453215





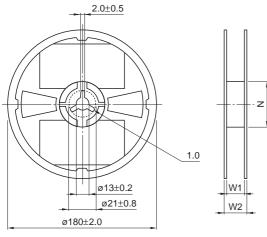
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HFxxACB4532 type

PACKAGING STYLE

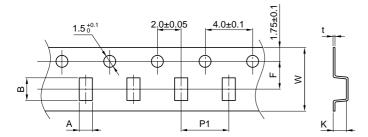
REEL DIMENSIONS



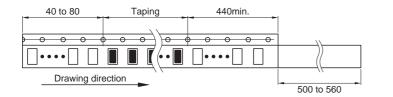
| Туре | W1 | W2 | N | |
|-------------|----------|----------|---------|---|
| HFxxACB4532 | 13.0±0.3 | 17.0±1.4 | ø61min. | _ |

Dimensions in mm

TAPE DIMENSIONS



| Dimensions in m | | | | | | | ensions in mm |
|-----------------|----------|----------|----------|---------|----------|---------|---------------|
| Туре | А | В | F | P1 | W | К | t |
| HFxxACB4532 | 3.37±0.1 | 4.75±0.1 | 5.5±0.05 | 8.0±0.1 | 12.0±0.3 | 1.8max. | 0.4max. |



Dimensions in mm

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