

Chip Beads(SMD) For Signal Line

Conformity to RoHS Directive

ACZ Series ACZ1005 Type

This product's name will be changed on December 1, 2003 when the product is integrated into the MMZ Series. If you are interested in using this product, please refer to information for the 1005 type in the MMZ Series.

New product names are included in the table of "Electrical Characteristics". Please contact us for details.

FEATURES

- The very smallest shape: It is extremely miniaturized and the best suited for portable/mobile electric equipment.
- No polarity : Designed for automatic mounting machine.
- Applicable for both flow and reflow solderings : Terminal electrode is electroplated.
- High density mount : No cross-talking owing to its closed magnetic path structure.
- Inexpensive and simple way : Just inserting it in series on the lines.
- The products contain no lead and also support lead-free soldering.
- It is a product conforming to RoHS directive.

APPLICATIONS

For PC, printers, HDDs, game machines, CD-ROMs, DVDs & DVD-ROMs, TVs, video cameras, LCD panels, PDP, mobile communications, etc.

PRODUCT IDENTIFICATIONS

$\frac{ACZ}{(1)}$
 $\frac{1005}{(2)}$
 $\frac{Y}{(3)}$
 $\frac{-102}{(4)}$
 $\frac{-T}{(5)}$

(1)Series name

(2)Dimensions L×W

(3)Ferrite material

characteristic code

Y : High frequency

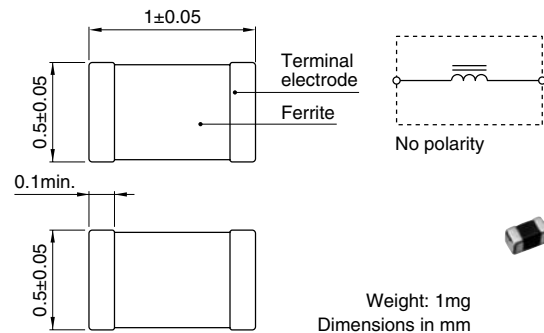
(4)Impedance

102 : 1000Ω at 100MHz

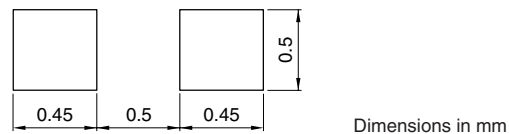
(5)Packaging style

T : Taping(ø180mm reel)

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN



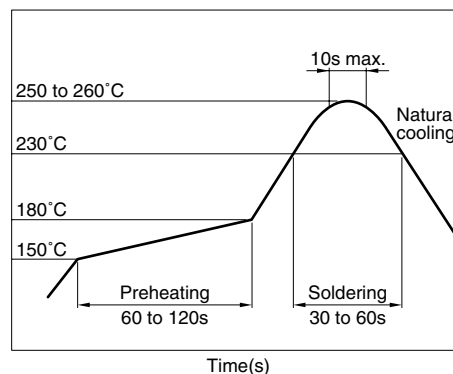
TEMPERATURE RANGES

Operating/storage -55 to $+125^{\circ}\text{C}$

PACKAGING STYLE AND QUANTITIES

| Packaging style | Quantity |
|-----------------|-------------------|
| Taping | 10000 pieces/reel |

RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



• 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 are 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

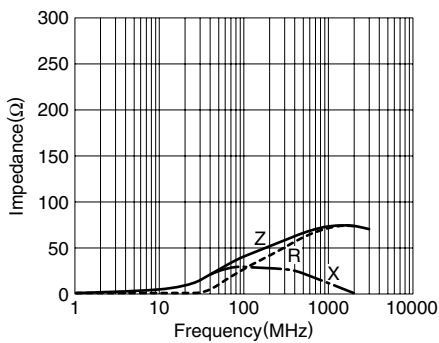
HIGH FREQUENCY

| Old Part No. | New Part No. | Impedance (Ω) \pm 25% [100MHz] | DC resistance (Ω)max. | Rated current (mA) max. |
|--------------|--------------|---|-----------------------------------|----------------------------|
| ACZ1005Y-400 | MMZ1005Y400C | 40 | 0.12 | 550 |
| ACZ1005Y-800 | MMZ1005Y800C | 80 | 0.17 | 450 |
| ACZ1005Y-121 | MMZ1005Y121C | 120 | 0.21 | 400 |
| ACZ1005Y-241 | MMZ1005Y241C | 240 | 0.33 | 300 |
| ACZ1005Y-301 | MMZ1005Y301C | 300 | 0.38 | 250 |
| ACZ1005Y-471 | MMZ1005Y471C | 470 | 0.50 | 250 |
| ACZ1005Y-601 | MMZ1005Y601C | 600 | 0.56 | 250 |
| ACZ1005Y-102 | MMZ1005Y102C | 1000 | 0.74 | 200 |
| ACZ1005Y-152 | MMZ1005Y152C | 1500 | 1.15 | 100 |

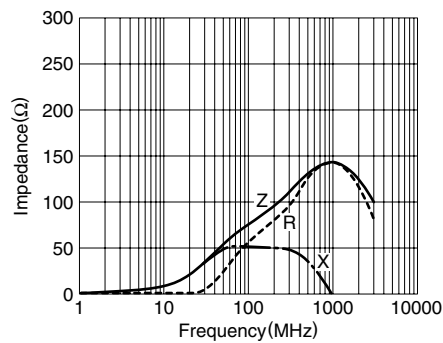
TYPICAL ELECTRICAL CHARACTERISTICS

Z, X, R vs. FREQUENCY CHARACTERISTICS

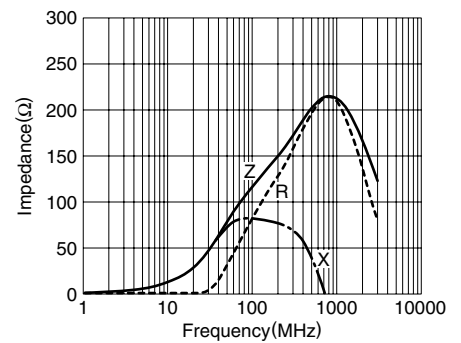
ACZ1005Y-400(MMZ1005Y400C)



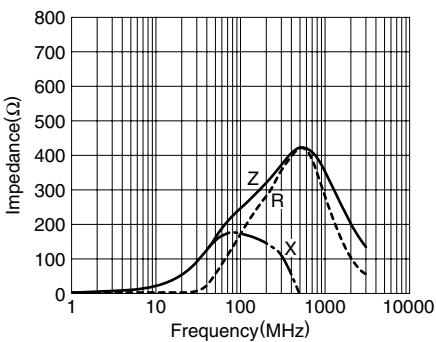
ACZ1005Y-800(MMZ1005Y800C)



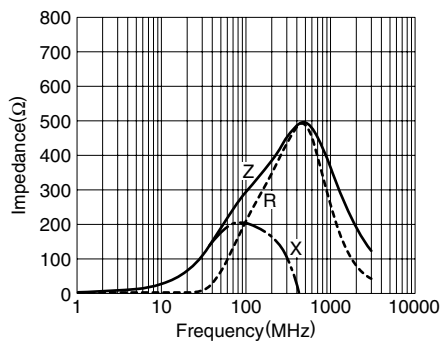
ACZ1005Y-121(MMZ1005Y121C)



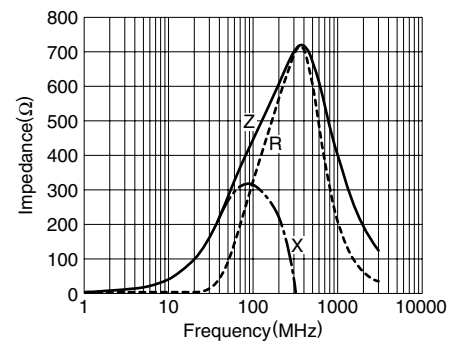
ACZ1005Y-241(MMZ1005Y241C)



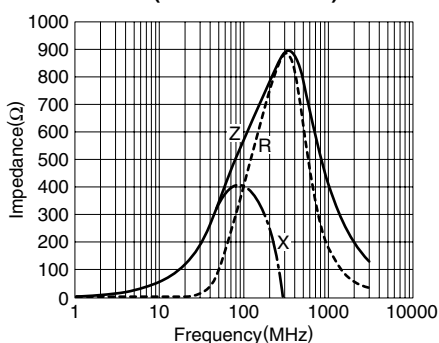
ACZ1005Y-301(MMZ1005Y301C)



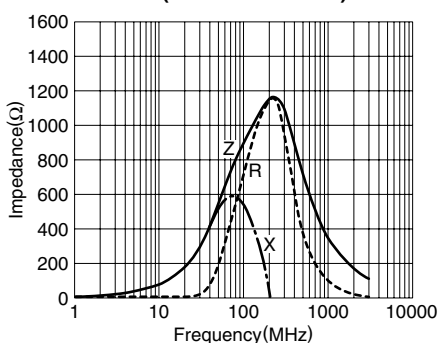
ACZ1005Y-471(MMZ1005Y471C)



ACZ1005Y-601(MMZ1005Y601C)



ACZ1005Y-102(MMZ1005Y102C)



ACZ1005Y-152(MMZ1005Y152C)

