

# EMC Components

## Ferrite Beads

### SMD

## ACZ Series ACZ1005 Type

Size: JIS/IEC 1005, EIA 0402

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.

### APPLICATIONS

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

### PRODUCT IDENTIFICATIONS

ACZ 1005 Y - 102 - T  
(1) (2) (3) (4) (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

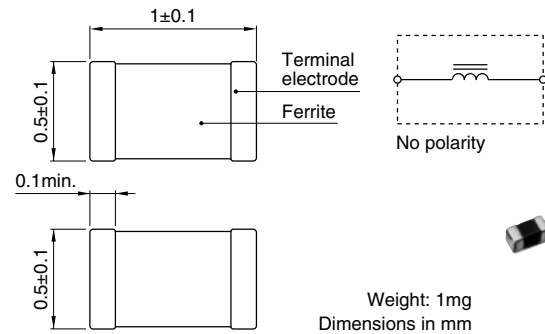
T : Taping(ø 180mm reel)

### ELECTRICAL CHARACTERISTICS

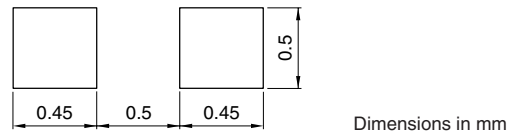
#### HIGH FREQUENCY

Old Part No.	New Part No.	Impedance (Ω)±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

### 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

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Ferrite Beads

SMD

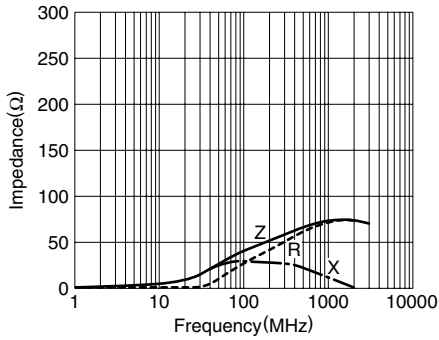
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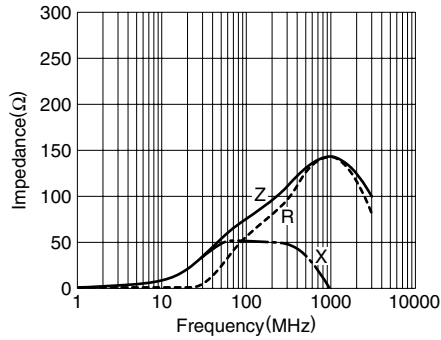
## TYPICAL ELECTRICAL CHARACTERISTICS

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

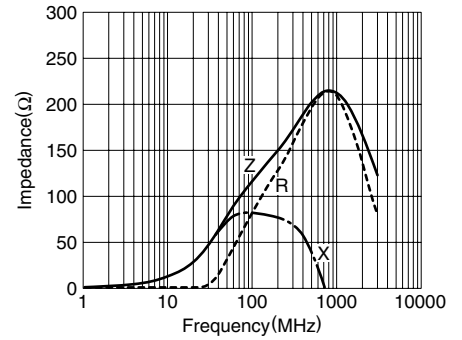
**ACZ1005Y-400(MMZ1005Y400C)**



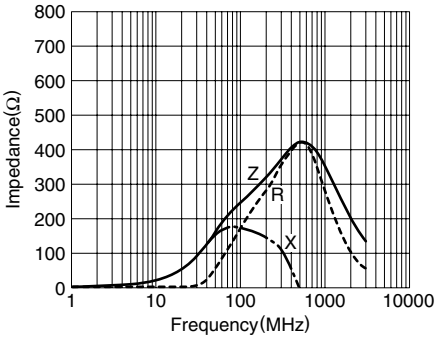
**ACZ1005Y-800(MMZ1005Y800C)**



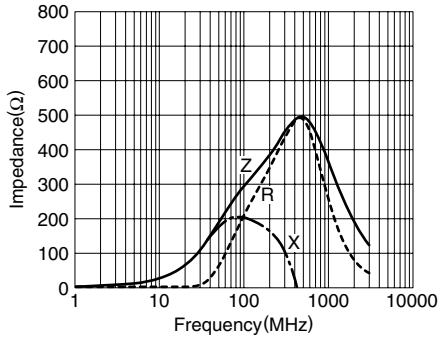
**ACZ1005Y-121(MMZ1005Y121C)**



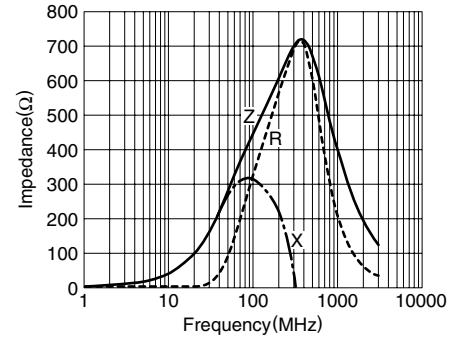
**ACZ1005Y-241(MMZ1005Y241C)**



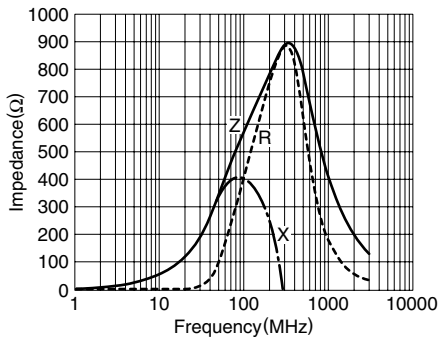
**ACZ1005Y-301(MMZ1005Y301C)**



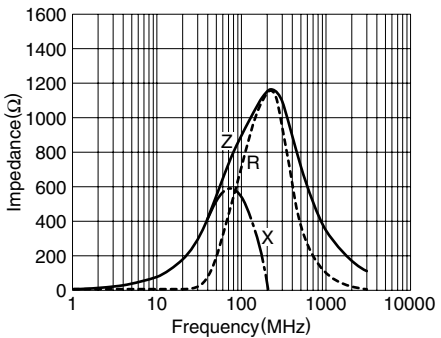
**ACZ1005Y-471(MMZ1005Y471C)**



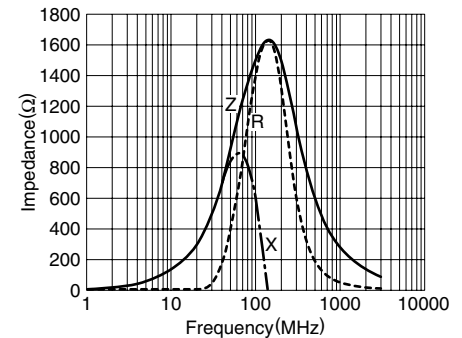
**ACZ1005Y-601(MMZ1005Y601C)**



**ACZ1005Y-102(MMZ1005Y102C)**



**ACZ1005Y-152(MMZ1005Y152C)**



• All specifications are subject to change without notice.