

# Chip Beads(SMD) For Signal Line

Conformity to RoHS Directive

## MMZ Series MMZ1005-E Type

### FEATURES

- Compared with the existing MMZ1005 type, this new product has broad-band impedance values for higher frequency ranges.
- Size standardized for use by automatic assembly equipment. No preferred orientation.
- Electroplated terminal electrodes accommodate reflow soldering.
- High reliability due to an entirely monolithic structure.
- Closed magnetic circuit structure allows high-density installation while preventing crosstalk between circuits.
- Low DC resistance structure of electrode prevents wasteful electric power consumption.
- It is a product conforming to RoHS directive.

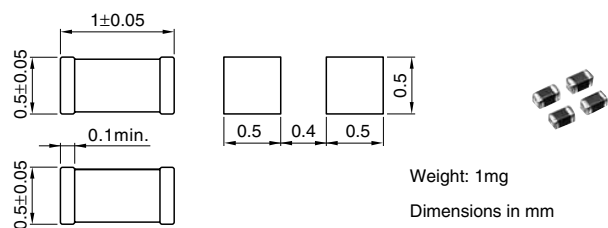
### APPLICATIONS

Removal of signal line noises of cellular phones, PCs, note PCs, TVs, TV tuners, STBs, audio players, DVDs, DSCs, DVCs, game machines, digital photo frames, car navigation system, PNDs, etc.

### TEMPERATURE RANGES

Operating/storage	-55 to +125°C
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### SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN



### ELECTRICAL CHARACTERISTICS

Part No.	Impedance(Ω)*		DC resistance (Ω)max.	Rated current (mA)max.
	[100MHz]	[1GHz]		
MMZ1005S601E	600±25%	1000±40%	0.70	300
MMZ1005S102E	1000±25%	1400±40%	1.10	250
MMZ1005S182E	1800±25%	1800±40%	1.65	200
MMZ1005A601E	600±25%	1400±40%	0.85	300
MMZ1005A102E	1000±25%	2000±40%	1.25	250
MMZ1005A152E	1500±25%	2300±40%	1.70	230
MMZ1005A182E	1800±25%	2700±40%	2.20	200
MMZ1005A222E	2200±25%	3000±40%	2.30	150
MMZ1005D121E	120±25%	1000±40%	0.70	300
MMZ1005D221E	220±25%	1700±40%	1.00	250
MMZ1005F470E	47±25%	800±40%	0.70	300
MMZ1005F750E	75±25%	1500±40%	1.00	250
MMZ1005F121E	120±25%	2300±40%	1.50	200

\* Test equipment: E4991A or equivalent  
Test tool: 16192A or equivalent  
Test temperature: 25±10°C

- 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.

### PRODUCT IDENTIFICATION

MMZ	1005	S	601	E	T
(1)	(2)	(3)	(4)	(5)	(6)

- Series name
- Dimensions L×W
- Material code
- Nominal impedance  
601:600Ω at 100MHz
- Characteristic type
- Packaging style  
T:Taping

### PACKAGING STYLE AND QUANTITIES

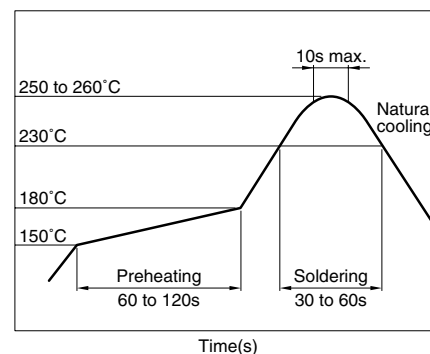
Packaging style	Quantity
Taping	10000 pieces/reel

### HANDLING AND PRECAUTIONS

- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and product temperature does not exceed 150°C.
- After mounting components onto the printed circuit board, do not apply stress through board bending or mishandling.
- Do not expose the inductors to stray magnetic fields.
- Avoid static electricity discharge during handling.
- When hand soldering, apply the soldering iron to the printed circuit board only. Temperature of the iron tip should not exceed 350°C. Soldering time should not exceed 3 seconds.

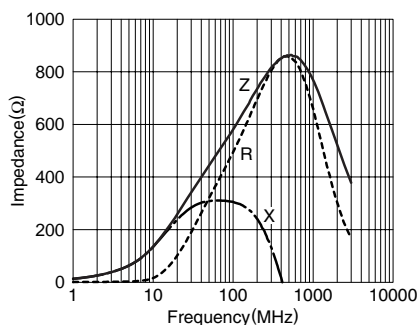
### RECOMMENDED SOLDERING CONDITION

#### REFLOW SOLDERING

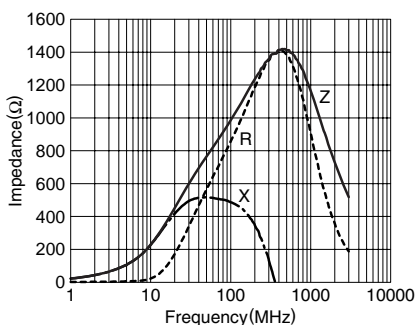


### TYPICAL ELECTRICAL CHARACTERISTICS Z, X, R vs. FREQUENCY CHARACTERISTICS

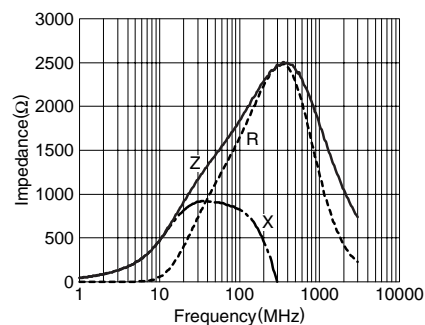
**MMZ1005S601E**



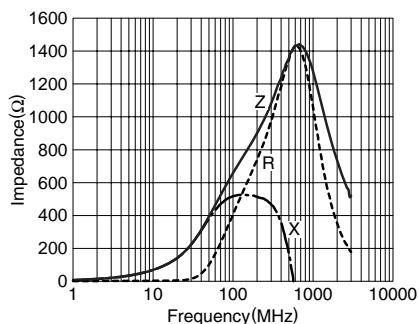
**MMZ1005S102E**



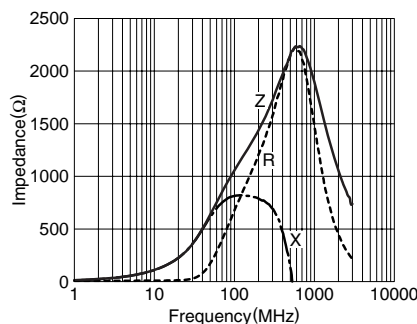
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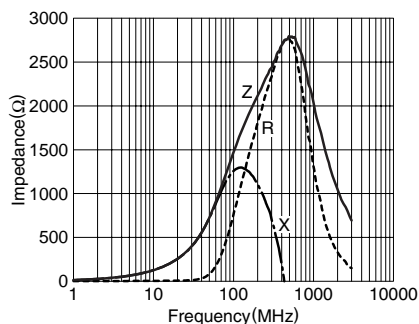
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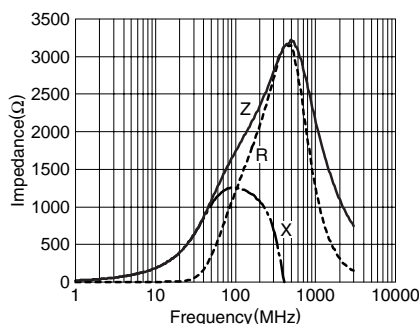
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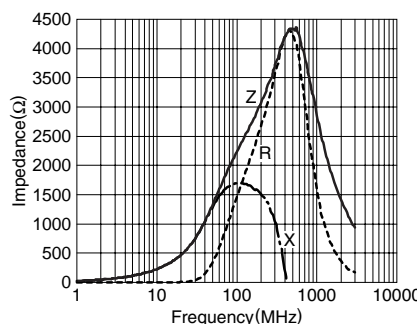
**MMZ1005A152E**



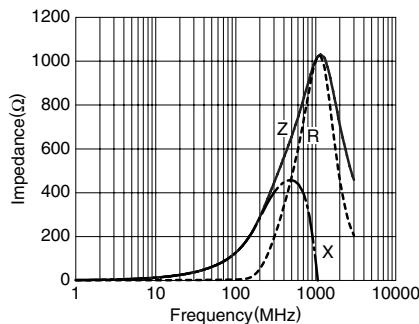
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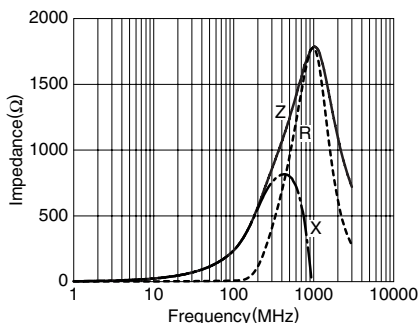
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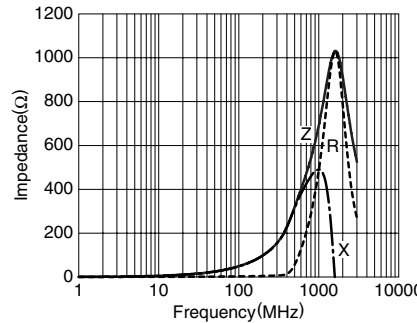
**MMZ1005D121E**



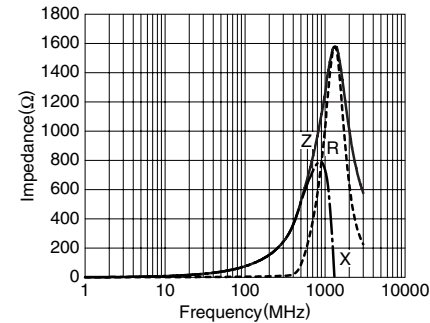
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**MMZ1005F470E**

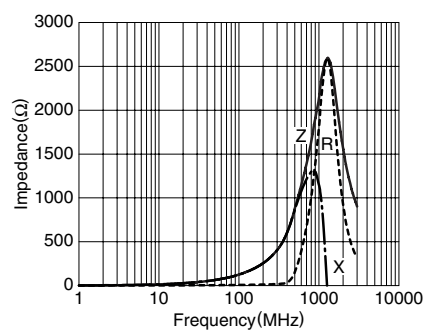


**MMZ1005F750E**

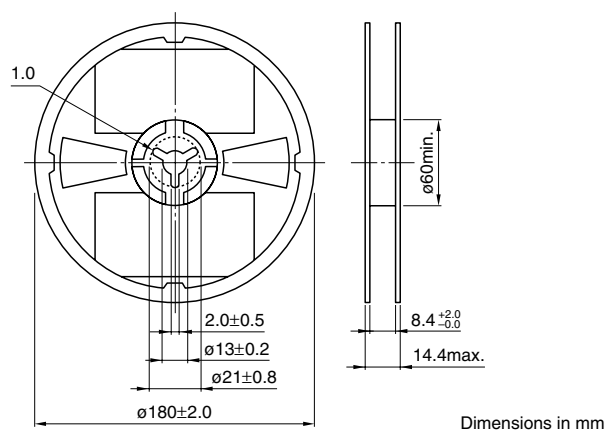


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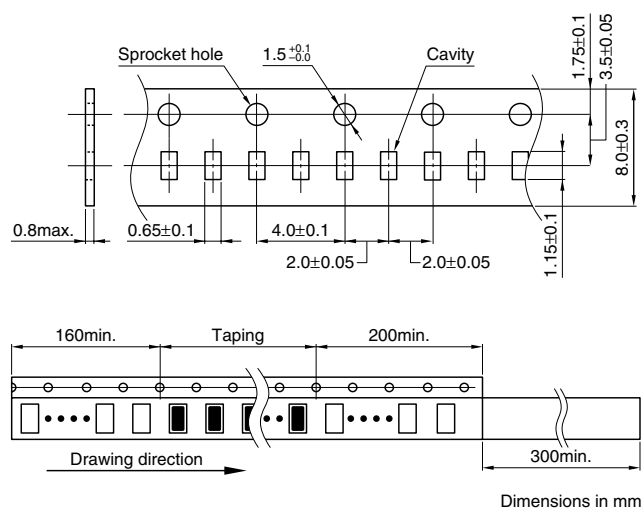
**TYPICAL ELECTRICAL CHARACTERISTICS**  
**Z, X, R vs. FREQUENCY CHARACTERISTICS**  
**MMZ1005F121E**



**PACKAGING STYLES**  
**REEL DIMENSIONS**



**TAPE DIMENSIONS**



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