Chip beads
For general signal line (Low DC resistance type)
MMZ-H series

RoHS REACH Halogen Free Lead Free

MMZ0603-H type

Product Portal Search Simulation Model Selection Guide Tech Library Tech Note Application Guides

FEATURES

- Noise reduction solution for general signal line.
- This product is a low resistance than the standard "-C" series.
- It\qs possible to reduce power loss of a circuit.
- Operating temperature range: -55 to +125°C

APPLICATION

- Noise removal for mobile devices such as smartphones and tablet terminals, and various modules.

PART NUMBER CONSTRUCTION

MMZ	0603	S	121	H	T	000
Series name	L x W x T dimensions 0.6 x 0.3 x 0.3 mm	Material name	Impedance (Ω) at 100MHz	Characteristic type	Packaging style	Internal code

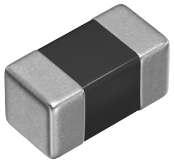
CHARACTERISTICS SPECIFICATION TABLE

Impedance [100MHz] (Ω)	Tolerance	DC resistance (Ω)max.	Rated current (mA)max.	Part No.
80	±25%	0.18	520	MMZ0603S800HT000
120	±25%	0.22	480	MMZ0603S121HT000
240	±25%	0.32	420	MMZ0603S241HT000
470	±25%	0.65	310	MMZ0603S471HT000
600	±25%	0.75	280	MMZ0603S601HT000
1000	±25%	1.25	200	MMZ0603S102HT000

Measurement equipment

Measurement item	Product No. *	Manufacturer
Impedance	4991A+16197	Keysight Technologies
DC resistance	Type-755611	Yokogawa

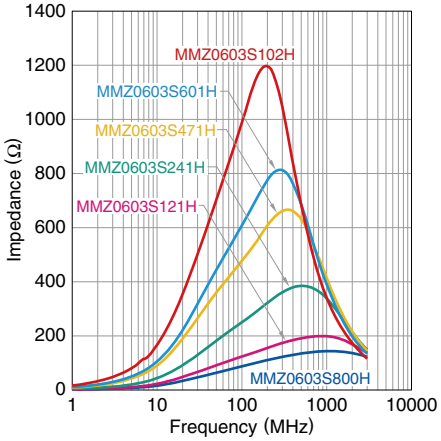
* Equivalent measurement equipment may be used.



MMZ0603-H type

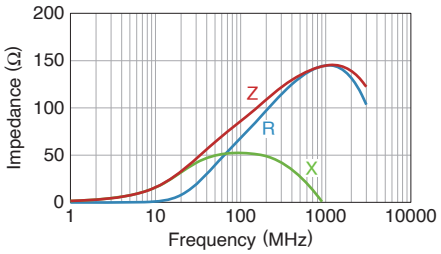
Z FREQUENCY CHARACTERISTICS (BY SERIES)

MMZ0603S-H series

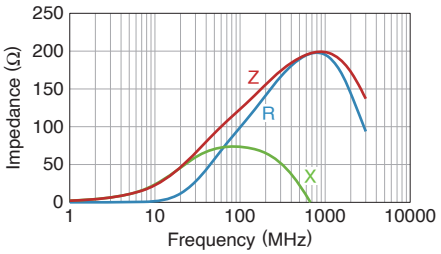


Z、X、R FREQUENCY CHARACTERISTICS

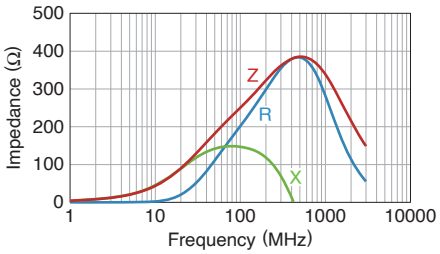
MMZ0603S800HT000



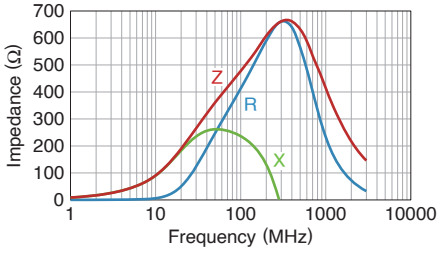
MMZ0603S121HT000



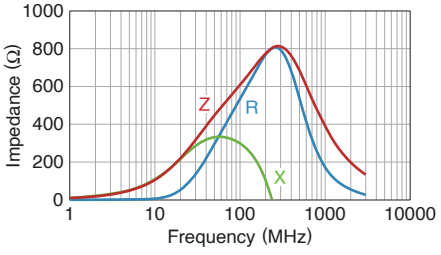
MMZ0603S241HT000



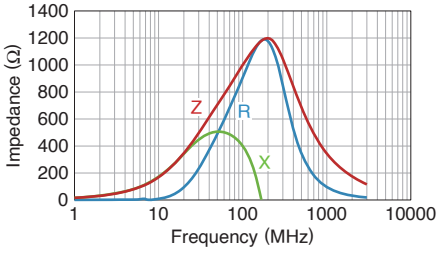
MMZ0603S471HT000



MMZ0603S601HT000

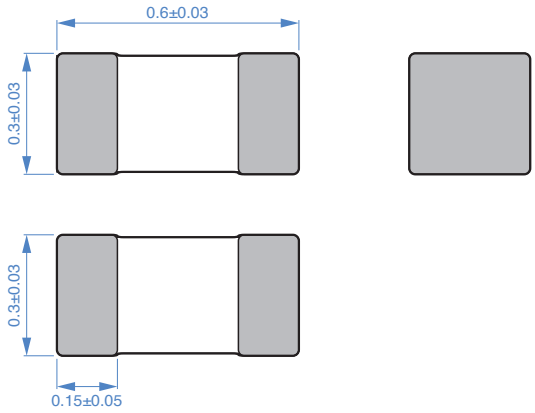


MMZ0603S102HT000



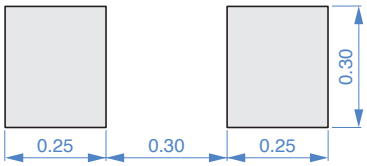
MMZ0603-H type

SHAPE & DIMENSIONS



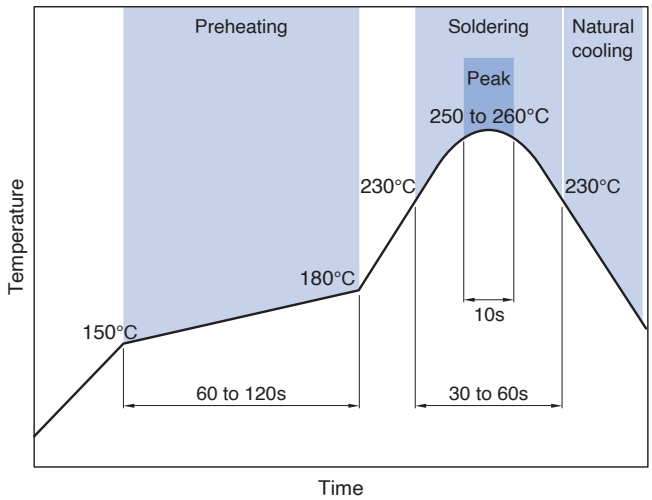
Dimensions in mm

RECOMMENDED LAND PATTERN



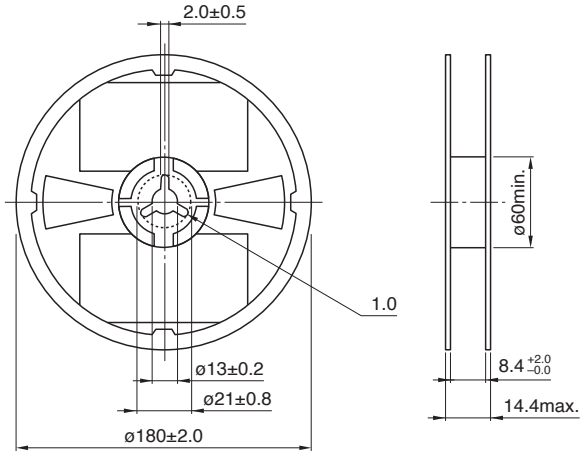
Dimensions in mm

RECOMMENDED REFLOW PROFILE



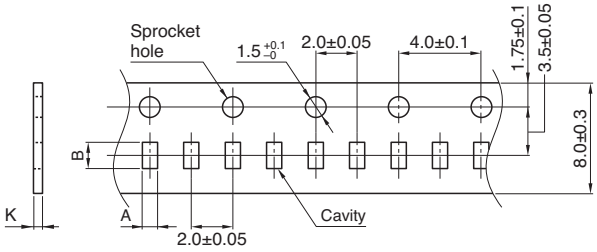
PACKAGING STYLE

REEL DIMENSIONS



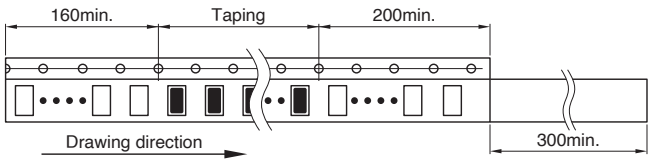
Dimensions in mm

TAPE DIMENSIONS



Dimensions in mm

Type	A	B	K
MMZ0603-H	0.38±0.05	0.68±0.05	0.5max.



Dimensions in mm

PACKAGE QUANTITY

Package quantity	15,000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range *	Individual weight
−55 to +125°C	−55 to +125°C	0.3 mg

* Operating temperature range includes self-heating.

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

REMINDERS

- The storage period is within 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.