EMC Components

Chip beads For power line Large current / Low DC resistance MPZ-H series



MPZ0603-H type



FEATURES

- Noise reduction solution for power line.
- This product achieves a 50% reduction in resistance in the [-C] series of standards.
- O Reduced from the -C on the standard series power loss in circuits.
- O A 50% improvement in the rated current compared to conventional power beads facilitates downsizing from 1005 shapes.
- Operating temperature range: -55 to +125°C

APPLICATION

- O Noise removal for mobile devices such as smartphones and tablet terminals, and various modules.
- O Noise removal for PCs and recorders, household appliances such as STBs, smart grids, and industrial equipment.
- O Application guides: Smart phones/tablets

PART NUMBER CONSTRUCTION

	MP.	Ζ	06	03	S	22	20	ŀ	H	ר	-	00	00
Ī	Series n	name		mensions ‹0.3 mm	Material name	- ·	dance I 00MHz		teristic pe	Packagi	ng style	Interna	I code

CHARACTERISTICS SPECIFICATION TABLE

e	DC resistance	Rated current*	Part No.
Tolerance	(Ω)max.	(mA)max.	
±25%	0.036	1900	MPZ0603S220HT000
±25%	0.050	1600	MPZ0603S330HT000
±25%	0.095	1200	MPZ0603S800HT000
±25%	0.130	1000	MPZ0603S121HT000
	Tolerance ±25% ±25% ±25% ±25%	Tolerance (Ω)max. ±25% 0.036 ±25% 0.050 ±25% 0.095	Tolerance (Ω)max. (mA)max. ±25% 0.036 1900 ±25% 0.050 1600 ±25% 0.095 1200

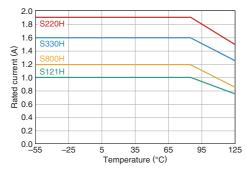
* Please refer to the graph of rated current vs. temperature characteristics (derating) about the rating current at 85°C or more in temperature of the product.

Measurement equipment

Measurement item	Product No.	Manufacturer
Impedance	E4991A+16192A	Keysight Technologies
DC resistance	Туре-7556	Yokogawa

* Equivalent measurement equipment may be used.

Rated current vs. temperature characteristics (derating)





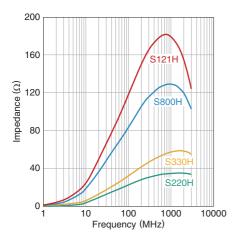
Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use.
(1/4)
Please note that the contents may change without any prior notice due to reasons such as upgrading.
20210202

beads_commercial_power_mpz0603-h_en.

MPZ0603-H type

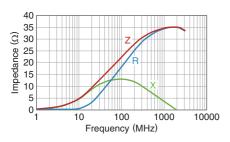
Z VS. FREQUENCY CHARACTERISTICS (BY SERIES)

MPZ0603S series

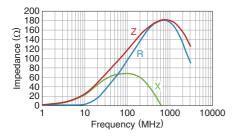


Z, X, R VS. FREQUENCY CHARACTERISTICS

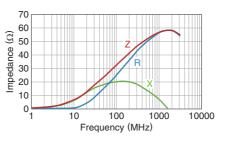
MPZ0603S220H



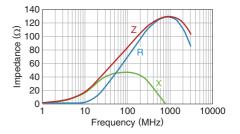
MPZ0603S121H



MPZ0603S330H



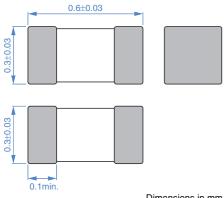
MPZ0603S800H



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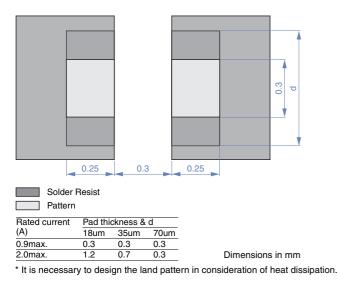
MPZ0603-H type

SHAPE & DIMENSIONS

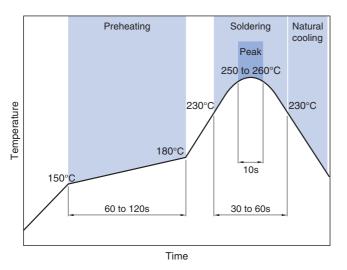


Dimensions in mm

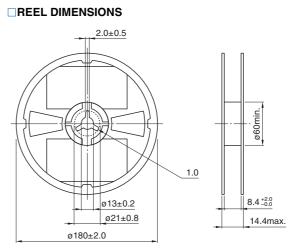
RECOMMENDED LAND PATTERN



RECOMMENDED REFLOW PROFILE

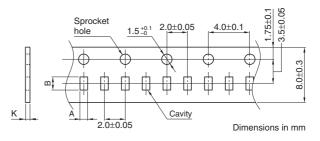


PACKAGING STYLE

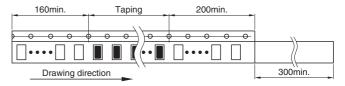


Dimensions in mm

TAPE DIMENSIONS



Туре	А	В	K
MPZ0603-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 0.3 mg	
	–55 to +125°C	–55 to +125°C		
*	The storage temperature range is for after the assembly.			

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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.

 The storage period is less than 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 turn design. 	ned ON, so the tolerance should be sufficient for the set thermal					
Carefully lay out the coil for the circuit board design of the non-magnetic shield type. A malfunction may occur due to magnetic interference.						
\bigcirc Use a wrist band to discharge static electricity in your body through	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 de	ivery 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 tection circuit/device or providing backup circuits in your equipment.	s, you are kindly requested to take into consideration securing pro-					

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. (4/4) Please note that the contents may change without any prior notice due to reasons such as upgrading.



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>>TDK Corporation