

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









MPZ1005-H type













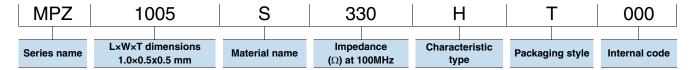
FEATURES

- Noise reduction solution for power line.
- This product is a low resistance of more than 30% than [-C] series standards.
- Reduced from the -C on the standard series power loss in circuits.
- Obwnsizing of 1608 shape easy due to the 30% or more improvement compared to the conventional power beads rated current.
- 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.

■ PART NUMBER CONSTRUCTION



CHARACTERISTICS SPECIFICATION TABLE

Impedance		DC resistance	Rated current*	Part No.
[100MHz]				
(Ω)	Tolerance	(Ω)max.	(A)max.	
33	±25%	0.022	3.0	MPZ1005S330HT000
90	±25%	0.038	2.3	MPZ1005S900HT000
120	±25%	0.055	2.0	MPZ1005S121HT000
180	±25%	0.085	1.6	MPZ1005S181HT000
220	±25%	0.095	1.5	MPZ1005S221HT000

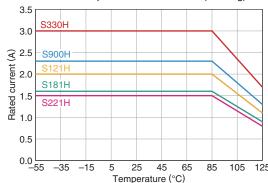
^{*} Please refer to the graph of rated current vs. temperature characteristics (derating) about the rating current at 85°C or more in temperature of the product.

Measurement equipment

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

^{*} Equivalent measurement equipment may be used.

Rated current vs. temperature characteristics (derating)





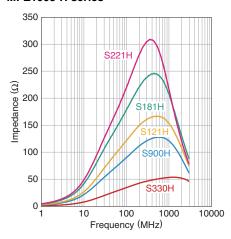




MPZ1005-H type

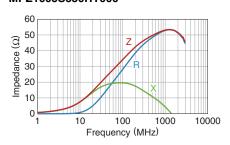
Z VS. FREQUENCY CHARACTERISTICS (BY SERIES)

MPZ1005-H series

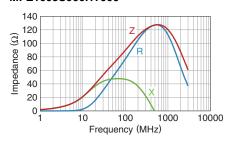


Z, X, R VS. FREQUENCY CHARACTERISTICS

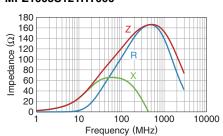
MPZ1005S330HT000



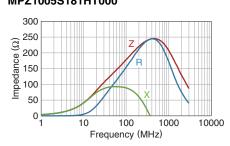
MPZ1005S900HT000



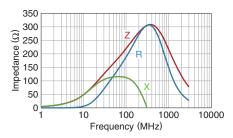
MPZ1005S121HT000



MPZ1005S181HT000



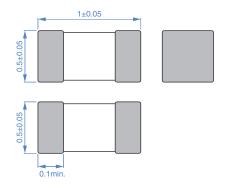
MPZ1005S221HT000





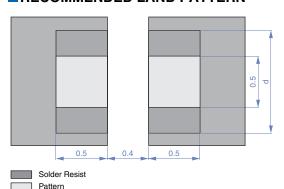
MPZ1005-H type

■SHAPE & DIMENSIONS



■ RECOMMENDED LAND PATTERN

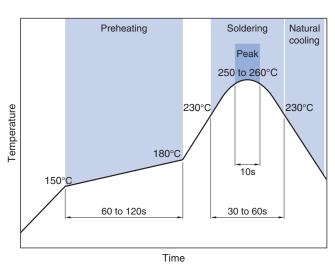
Dimensions in mm



Rated current	Pad thickness & d		
(A)	18um	35um	70um
1.5max.	0.5	0.5	0.5
2.2max.	1.2	0.7	0.5
3.0max.	2.4	1.2	0.5

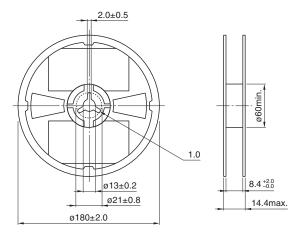
Dimensions in mm

■ RECOMMENDED REFLOW PROFILE



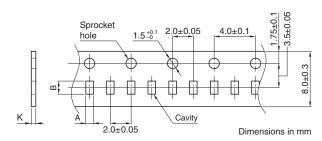
■ PACKAGING STYLE

□REEL DIMENSIONS

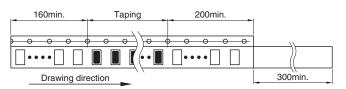


Dimensions in mm

TAPE DIMENSIONS



Туре	Α	В	K
MPZ1005-H	0.65±0.1	1.15±0.1	0.8max.



Dimensions in mm

□PACKAGE QUANTITY

Package quantity	10,000 pcs/reel

TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Operating temperature range	Storage temperature range*	Individual weight
−55 to +125°C	−55 to +125°C	1 mg

The storage temperature range is for after the assembly.

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.

- (1) Aerospace/aviation equipment
- (2) Transportation equipment (cars, electric trains, ships, etc.)
- (3) Medical equipment

person or property.

(4) Power-generation control equipment

set forth in the each catalog, please contact us.

- (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.

If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions

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PE-0402FB121ST NCB0603R301TR050F NCB0805A320TR050F NCB-H1206B680TR300F SMB2.5-1TR SMB2.5R-2 CZB1EGTTP121P

CZB1JGTTD102P CZB1JGTTD121P CZB1JGTTD221P CZB2AGTTD301P CZB2BFTTE301P CZB2BFTTE601P 4221R-1 4221R-2

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CZB2AGTTD102P NCB0402P301TR005F NCB0603R152TR030F NCB0805A121TR050F NCB3312K900TR500F NCB-H0805A102TR150F NCB-H0805A221TR300F NCB-H1806E181TR300F NCB0402P300TR030F NCB0805A102TR040F

NCB1806E151TR020F NCB-H0603R121TR300F NCB-H0805A220TR600F NCB-H0805A390TR400F NCB-H1206B121TR300F NCB-H1206B601TR200F CIM21J252NE EMI0805R-220 74279250 7427924 CZB1JGTTD202P ABUPDE160808121Y00