

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









# MPZ1005-H type















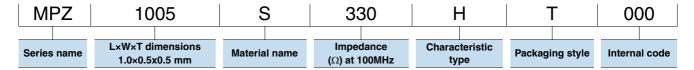
#### **FEATURES**

- 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]				
<b>(</b> Ω <b>)</b>	Tolerance	( $\Omega$ )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

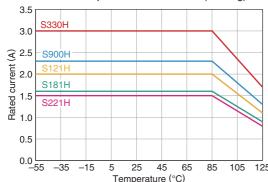
<sup>\*</sup> Please refer to the graph of rated current vs. temperature characteristics (derating) about the rating current at 85°C or more in temperature of the product.

#### Measurement equipment

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

<sup>\*</sup> Equivalent measurement equipment may be used.

Rated current vs. temperature characteristics (derating)



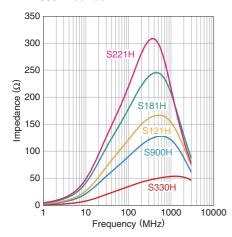




# MPZ1005-H type

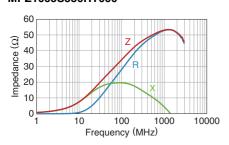
# **Z VS. FREQUENCY CHARACTERISTICS (BY SERIES)**

#### MPZ1005-H series

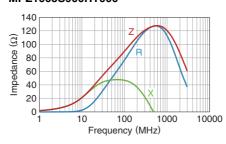


## **Z, X, R VS. FREQUENCY CHARACTERISTICS**

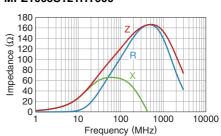
#### MPZ1005S330HT000



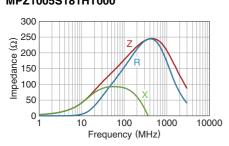
#### MPZ1005S900HT000



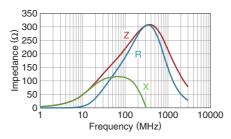
#### MPZ1005S121HT000



# MPZ1005S181HT000

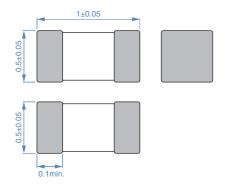


#### MPZ1005S221HT000



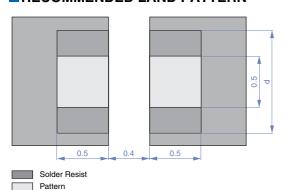
# MPZ1005-H type

#### ■SHAPE & DIMENSIONS



Dimensions in mm

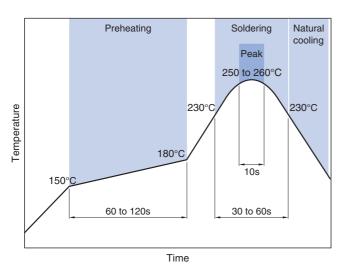
#### ■ RECOMMENDED LAND PATTERN



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

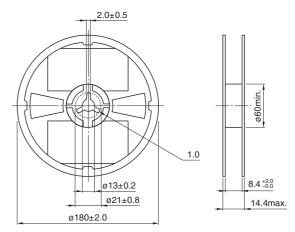
Dimensions in mm

#### ■ RECOMMENDED REFLOW PROFILE



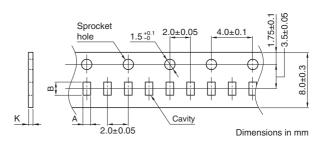
#### **■ PACKAGING STYLE**

#### **REEL DIMENSIONS**

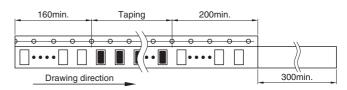


Dimensions in mm

#### **TAPE DIMENSIONS**



Type	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

<sup>\*</sup> 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

# **ПОСТАВКА** ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

# Данный компонент на территории Российской Федерации Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

## http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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### Офис по работе с юридическими лицами:

105318, г. Москва, ул. Щербаковская д. 3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru moschip.ru\_6 moschip.ru\_4 moschip.ru\_9