

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









MPZ1005-H type















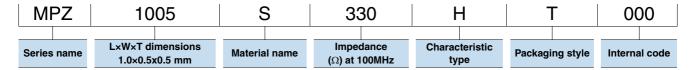
FEATURES

- 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

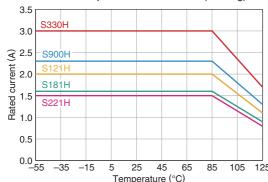
^{*} Please refer to the graph of rated current vs. temperature characteristics (derating) about the rating current at 85°C or more in temperature of the product.

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)



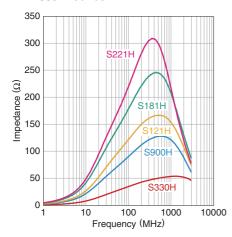




MPZ1005-H type

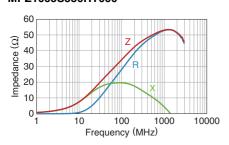
Z VS. FREQUENCY CHARACTERISTICS (BY SERIES)

MPZ1005-H series

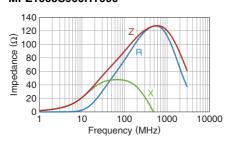


Z, X, R VS. FREQUENCY CHARACTERISTICS

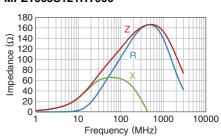
MPZ1005S330HT000



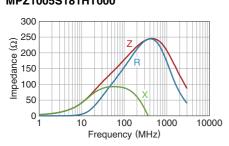
MPZ1005S900HT000



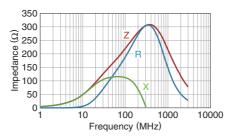
MPZ1005S121HT000



MPZ1005S181HT000

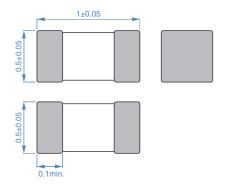


MPZ1005S221HT000



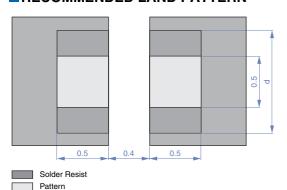
MPZ1005-H type

■SHAPE & DIMENSIONS



Dimensions in mm

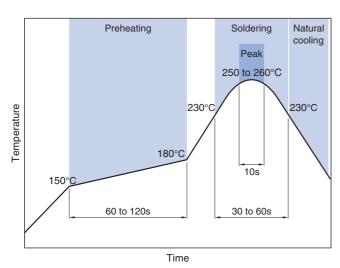
■ RECOMMENDED LAND PATTERN



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

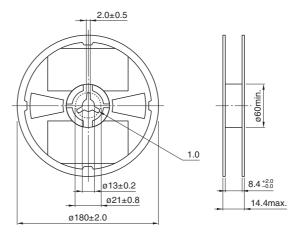
Dimensions in mm

■ RECOMMENDED REFLOW PROFILE



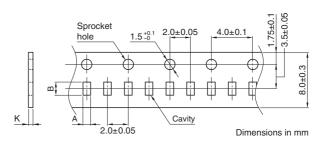
■ PACKAGING STYLE

□REEL DIMENSIONS

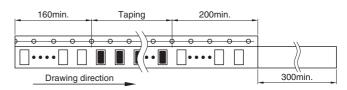


Dimensions in mm

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

^{*} 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



OOO «ЛайфЭлектроникс" "LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 P/C 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 3010181090000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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