

Chip beads For power line High GHz noise countermeasure (high-speed signal line) **MPZ-N** series









MPZ1005-N type













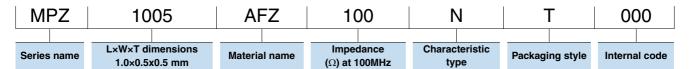
FEATURES

- 1005 shape type noise reduction component for power line.
- Ocompared to the MPZ-E series, it can attain high impedance at GHz bands.
- Exerts an excellent noise reduction effect against noise interfering at several GHz such as LTE or Wi-Fi, or against high-frequency noise.
- OAchieves particularly high impedances in the range from 0.7GHz to 5GHz, enabling a reduction of noise that could not be reduced using the conventional MPZ-E series.
- Highly reliable monolithic structure with multilayer integration.
- Operating temperature range: -55 to +125°C

APPLICATION

- Ensuring communication sensitivity of wireless communication using high-speed signals such as LTE or Wi-Fi
- 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

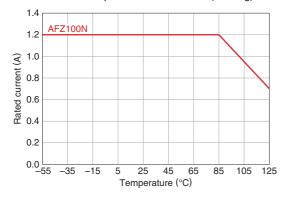
Impedance				DC resistance	Rated current	Part No.
[100MHz]		[1GHz]				
(Ω)	Tolerance	(Ω)	Tolerance	(Ω)max.	(A)max.	
10	±40%	60(typ.)		0.150	1.20	MPZ1005AFZ100NT000

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)



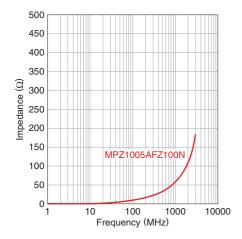




MPZ1005-N type

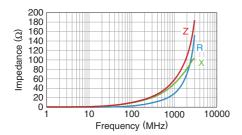
Z VS. FREQUENCY CHARACTERISTICS (BY SERIES)

MPZ1005AFZ-N series



Z, X, R VS. FREQUENCY CHARACTERISTICS

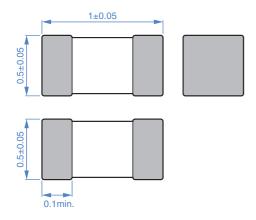
MPZ1005AFZ100NT000





MPZ1005-N type

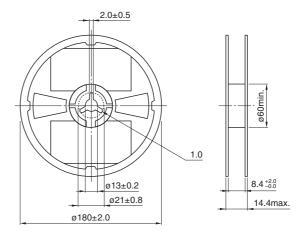
SHAPE & DIMENSIONS



Dimensions in mm

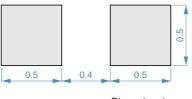
■ PACKAGING STYLE

□REEL DIMENSIONS



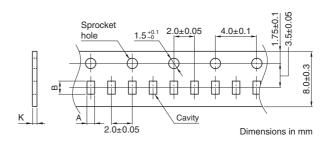
Dimensions in mm

■ RECOMMENDED LAND PATTERN



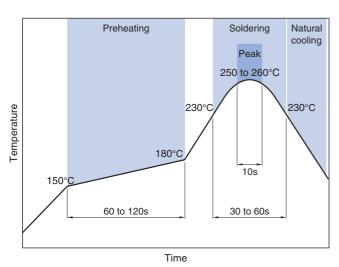
Dimensions in mm

TAPE DIMENSIONS



Type	Α	В	K
MPZ1005-N	0.65±0.1	1.15±0.1	0.8max.

■ RECOMMENDED REFLOW PROFILE



160min.	Taping	200min.	1
0 0 0		0 0 0]
Drawing dir	ection		300min.

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.

⚠ REMINDERS
ZI TIEMINIDE IO
○ The storage period is within 12 months. Be sure to follow the storage conditions (temperature: 5 to 40°C, humidity: 10 to 75% RH (less).
If the storage period elapses, the soldering of the terminal electrodes may deteriorate.
On 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 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 therm 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.
On not expose the products to magnets or magnetic fields.
On 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 societ

- (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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