

Chip beads For power line **MPZ** series









MPZ0402 type















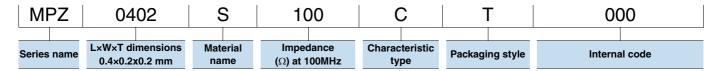
FEATURES

- O Noise reduction solution for power line.
- Ocompared to the MMZ series, has low direct current resistance for compatibility with large currents, optimal for low power consumption.
- OPerforms well even in signal lines where low direct current resistance is required.
- 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)	(A)	
10	0 ±5Ω 0.05 1.10	MPZ0402S100CT000		
10		0.00	1.10	MPZ0402S100CTF0W
22	±25%	0.15	0.75	MPZ0402S220CT000
	±23%		0.75	MPZ0402S220CTF0W
33	±25%	0.2	0.55	MPZ0402S330CT000
				MPZ0402S330CTF0W

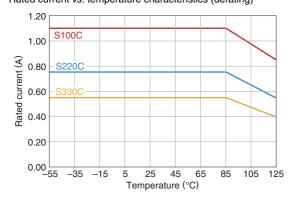
^{*} Please refer to the graph of rated current vs. temperature characteristics (derating) about the rating current at 85°C or more in temperature of the product.

Measurement equipment

Measurement item	Product No.	Manufacturer
Impedance	E4991A+16196D	Keysight Technologies
DC resistance	Type-7556	Yokogawa

^{*} Equivalent measurement equipment may be used.

Rated current vs. temperature characteristics (derating)





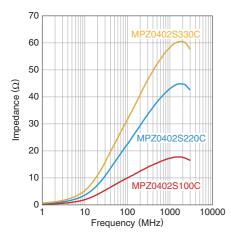




MPZ0402 type

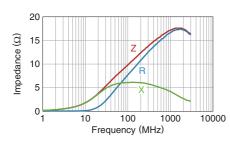
Z VS. FREQUENCY CHARACTERISTICS (BY SERIES)

MPZ0402 series

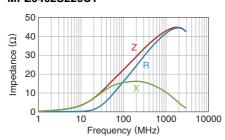


Z, X, R VS. FREQUENCY CHARACTERISTICS

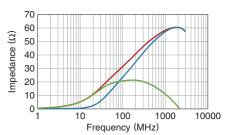
MPZ0402S100CT



MPZ0402S220CT

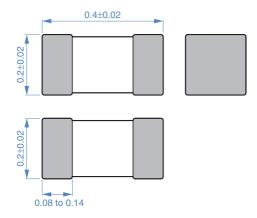


MPZ0402S330CT



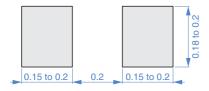
MPZ0402 type

SHAPE & DIMENSIONS



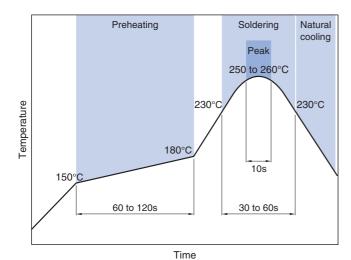
Dimensions in mm

■ RECOMMENDED LAND PATTERN



Dimensions in mm

■ RECOMMENDED REFLOW PROFILE

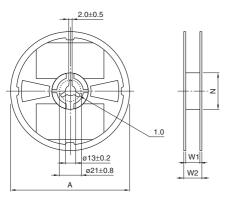




MPZ0402 type

■ PACKAGING STYLE

□REEL DIMENSIONS



 MPZ0402**T000
 Paper carrier (W8P2)
 Ø180±2.0
 8.4+2.0, -0.0
 14.4max.

 MPZ0402**TF0W
 Plastic carrier (W4P1)
 Ø178±2.0
 5.0±1.0
 —

Package

specifications

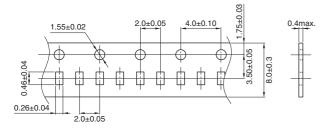
Type

Dimensions in mm

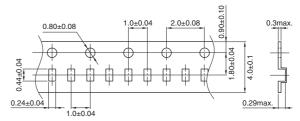
TAPE DIMENSIONS

Paper carrier

(W8P2)



Plastic carrier (W4P1)



Α

W1

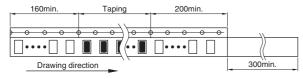
W2

Ν

ø60min.

ø60±2.0

Dimensions in mm



Dimensions in mm

□PACKAGE QUANTITY

Package quantity	MPZ0402**T000 (W8P2 Paper carrier)	20,000 pcs/reel	
Package quantity	MPZ0402**TF0W (W4P1 Plastic carrier)	40,000 pcs/reel	

■TEMPERATURE RANGE, INDIVIDUAL WEIGHT

Туре	Operating temperature range	Storage temperature range*	Individual weight
MPZ0402**T000 (W8P2 Paper carrier)	−55 to +125 °C	−55 to +125 °C	0.08 mg
MPZ0402**TF0W (W4P1 Plastic carrier)	−55 to +125 °C	−55 to +125 °C	0.08 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 ○ The storage period is within 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. 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 to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions. O Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal 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. O Do 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 society, person or property.

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

многоканальный

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

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http://moschip.ru/get-element

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

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