会TDK

Chip Beads(SMD) For Power Line

MPZ Series MPZ1005 Type

FEATURES

- TDK has manufactured MPZ1005 type as EMI countermeasure product for power line.
- This type is the best for energy-saving in the low DC resistance.
- No cross talk with closed magnetic circuit structural design.
- It is a product conforming to RoHS directive.

APPLICATIONS

USB, cellular phones, HDDs, CD-ROMs, DVDs, DSCs, LCD panels, etc.

PRODUCT IDENTIFICATION

MPZ 1005 S 121 C T (1) (2) (3) (4) (5) (6)

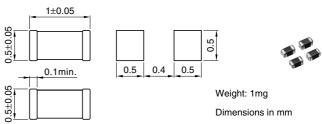
(1) Series name

- (2) Dimensions L×W
- (3) Material code
- (4) Nominal impedance [at 100MHz]
- (5) Characteristic type
- (6) Packaging style
 - T:Taping(reel)

HANDLING AND PRECAUTIONS

- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and product temperature does not exceed 150°C.
- After mounting components onto the printed circuit board, do not apply stress through board bending or mishandling.
- Do not expose the inductors to stray magnetic fields.
- · Avoid static electricity discharge during handling.
- When hand soldering, apply the soldering iron to the printed circuit board only. Temperature of the iron tip should not exceed 350°C. Soldering time should not exceed 3 seconds.

SHAPES AND DIMENSIONS/RECOMMENDED PC BOARD PATTERN

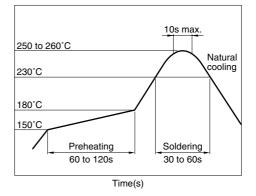


TEMPERATURE RANGES

PACKAGING STYLE AND QUANTITIES

| Packaging style | Quantity |
|-----------------|-------------------|
| Taping | 10000 pieces/reel |

RECOMMENDED SOLDERING CONDITION REFLOW SOLDERING



ELECTRICAL CHARACTERISTICS

| Part No. | Impedance | DC resistance | Rated current |
|--------------|--------------|---------------|---------------|
| ran no. | (Ω)[100MHz]* | (Ω)max. | (A)max. |
| MPZ1005S100C | 10±5Ω | 0.045 | 2.0 |
| MPZ1005S300C | 30±10Ω | 0.050 | 1.7 |
| MPZ1005S600C | 60±25% | 0.075 | 1.5 |
| MPZ1005S121C | 120±25% | 0.090 | 1.2 |

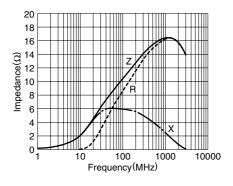
Test equipment: E4991A or equivalent Test tool: 16192A or equivalent Test temperature: 25±10°C

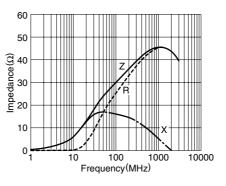
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
- Please contact our Sales office when your application are considered the following: The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

· All specifications are subject to change without notice.

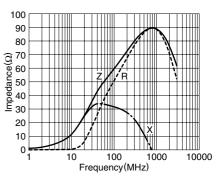
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TYPICAL ELECTRICAL CHARACTERISTICS Z, X, R vs. FREQUENCY CHARACTERISTICS MPZ1005S100C MPZ1005S300C

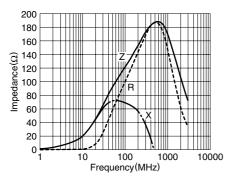




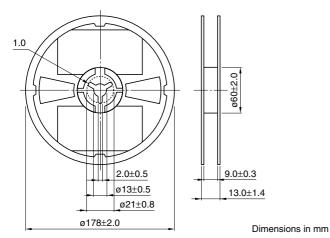
MPZ1005S600C



MPZ1005S121C



PACKAGING STYLES REEL DIMENSIONS



TAPE DIMENSIONS

