



Ferrite bead part number description

Part Number Structure Details - MMZ Series



TDK full part number includes an internal coding structure to denote particular attributes used in our factories. TDK is now including these internal codes (full part number as part of the ordering code).

For general signal line

■ PART NUMBER CONSTRUCTION

| Series name | LxWxT Dimensions (mm) | Material name | Impedance (Ω) at 100MHz | Characteristic type | Packaging style | Internal code |
|-------------|-----------------------|---------------|-------------------------|---------------------|-----------------|---------------|
| 0402 | 0.4x0.2x0.2 | A | 121 120 | C | T Taping | 000 |
| 0603 | 0.6x0.3x0.3 | B | | A | | A00 |
| 1005 | 1.0x0.5x0.5 | D | | B | | AH0 |
| 1608 | 1.6x0.8x0.6 | F | | H | | |
| 1608 | 1.6x0.8x0.8 | Q | | | | |
| 2012 | 2.0x1.25x0.85 | R | | | | |
| | | S | | | | |
| | | Y | | | | |

For general signal line

GHz noise countermeasure (general signal line, high-speed signal line)

■ PART NUMBER CONSTRUCTION

| Series name | LxWxT Dimensions (mm) | Material name | Impedance (Ω) at 100MHz | Characteristic type | Packaging style | Internal code |
|-------------|-----------------------|---------------|-------------------------|---------------------|-----------------|---------------|
| 0603 | 0.6x0.3x0.3 | S | 601 600 | E | T Taping | 000 |
| 1005 | 1.0x0.5x0.5 | A | 102 1000 | | | |
| | | D | | | | |
| | | F | | | | |

For general signal line

GHz noise countermeasure (general signal line, high-speed signal line)

■ PART NUMBER CONSTRUCTION

| Series name | LxWxT Dimensions (mm) | Material name | Impedance (Ω) at 100MHz | Characteristic type | Packaging style | Internal code |
|-------------|-----------------------|---------------|-------------------------|---------------------|-----------------|---------------|
| 1005 | 1.0x0.5x0.5 | AFZ | 750 75 | V | T Taping | 000 |
| | | | 151 150 | | | |
| | | | 181 180 | | | |

Part Number Structure Details- MPZ Series



For power line

■ PART NUMBER CONSTRUCTION

| MPZ | 0603 | | S | 220 | | C | T | 000 |
|-------------|-----------------------|--|---------------|-------------------------|----|---------------------|-----------------|---------------|
| Series name | LxWxT Dimensions (mm) | | Material name | Impedance (Ω) at 100MHz | | Characteristic type | Packaging style | Internal code |
| 0603 | 0.6x0.3x0.3 | | S | 220 | 22 | C | T Taping | 000 |
| 1005 | 1.0x0.5x0.5 | | Y | | | A | | AO0 |
| 1608 | 1.6x0.8x0.6 | | B | | | B | | AHO |
| | 1.6x0.8x0.8 | | R | | | | | |
| 2012 | 2.0x1.25x0.85 | | D | | | | | |

For power line

GHz noise countermeasure

■ PART NUMBER CONSTRUCTION

| MPZ | 1005 | | S | 221 | | E | T | 000 |
|-------------|-----------------------|--|---------------|-------------------------|-----|---------------------|-----------------|---------------|
| Series name | LxWxT Dimensions (mm) | | Material name | Impedance (Ω) at 100MHz | | Characteristic type | Packaging style | Internal code |
| 1005 | 1.0x0.5x0.5 | | S | 221 | 220 | E | T Taping | 000 |
| | | | A | | | | | |
| | | | D | | | | | |
| | | | F | | | | | |

For power line

High GHz noise countermeasure (high-speed signal line)

■ PART NUMBER CONSTRUCTION

| MPZ | 1005 | | AFZ | 150 | | V | T | 000 |
|-------------|-----------------------|--|---------------|-------------------------|----|---------------------|-----------------|---------------|
| Series name | LxWxT Dimensions (mm) | | Material name | Impedance (Ω) at 100MHz | | Characteristic type | Packaging style | Internal code |
| 1005 | 1.0x0.5x0.5 | | AFZ | 150 | 15 | V | T Taping | 000 |
| | | | | | | N | | |

Part Number Structure Details – MMZ, MPZ Automotive Series



For general Signal line Automotive

■ PART NUMBER CONSTRUCTION

| MMZ | | 1005 | | S | 121 | | C | T | D25 |
|-------------|-----------------------|------|---------------|-------------------------|-----|---------------------|-----------------|--------|---------------|
| Series name | L×W×T Dimensions (mm) | | Material name | Impedance (Ω) at 100MHz | | Characteristic type | Packaging style | | Internal code |
| 1005 | 1.0 | 0.5 | A | 121 | 120 | C | T | Taping | D25 |
| | 1.6 | 0.8 | B | | | A | | | DH5 |
| 1608 | 1.6 | 0.8 | D | | | B | | | |
| | 2.0 | 1.25 | F | | | H | | | |
| 2012 | | | Q | | | | | | |
| | | | R | | | | | | |
| | | | S | | | | | | |
| | | | Y | | | | | | |

Signal Line

For general signal line
GHz noise countermeasure (general signal line, high-speed signal line)

Automotive

■ PART NUMBER CONSTRUCTION

| MMZ | | 1005 | | S | 601 | | E | T | D25 |
|-------------|-----------------------|------|---------------|-------------------------|------|---------------------|-----------------|--------|---------------|
| Series name | L×W×T Dimensions (mm) | | Material name | Impedance (Ω) at 100MHz | | Characteristic type | Packaging style | | Internal code |
| 1005 | 1.0 | 0.5 | S | 601 | 600 | E | T | Taping | D25 |
| | | | A | 102 | 1000 | | | | |
| | | | D | | | | | | |
| | | | F | | | | | | |

For Power line Automotive

■ PART NUMBER CONSTRUCTION

| MPZ | | 1005 | | S | 121 | | C | T | D25 |
|-------------|-----------------------|------|---------------|-------------------------|-----|---------------------|-----------------|--------|---------------|
| Series name | L×W×T Dimensions (mm) | | Material name | Impedance (Ω) at 100MHz | | Characteristic type | Packaging style | | Internal code |
| 1005 | 1.0 | 0.5 | S | 121 | 120 | C | T | Taping | D25 |
| | 1.6 | 0.8 | Y | | | A | | | DH5 |
| 1608 | 1.6 | 0.8 | B | | | B | | | |
| | 2.0 | 1.25 | R | | | | | | |
| 2012 | | | D | | | | | | |

Power Line

For power line
GHz noise countermeasure

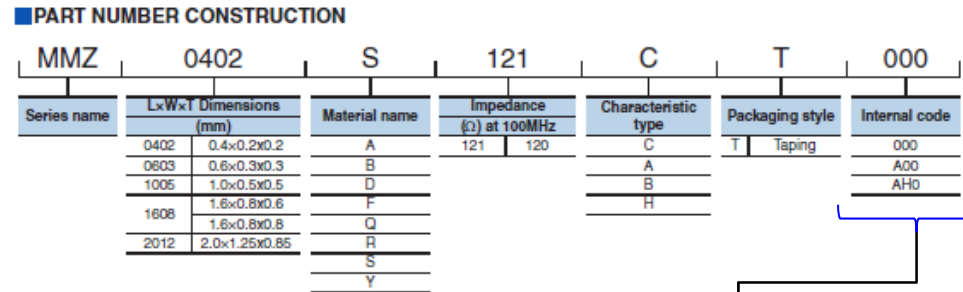
■ PART NUMBER CONSTRUCTION

| MPZ | | 1005 | | S | 221 | | E | T | D25 |
|-------------|-----------------------|------|---------------|-------------------------|-----|---------------------|-----------------|--------|---------------|
| Series name | L×W×T Dimensions (mm) | | Material name | Impedance (Ω) at 100MHz | | Characteristic type | Packaging style | | Internal code |
| 1005 | 1.0 | 0.5 | F | 221 | 220 | E | T | Taping | D25 |
| | | | S | | | | | | |

Ending Code Significance



TDK Part number structure



| Applicable Series | Internal Code | Internal Code Description |
|--|---------------|---|
| MMZ0402,MMZ0603,MMZ1005,MMZ2012 MPZ1005,MPZ2012 | 000 | Standard Code for Multilayer Bead H=0.2, 0.3, 0.5, 0.85 mm |
| MMZ1608 , MPZ1608 | A00 | Standard for Multilayer Bead H=0.8mm |
| MMZ1608 , MPZ1608 | AH0 | Standard for Multilayer Power Line Bead H=0.6mm |
| MMZ1005,MMZ1608,MMZ2012 MPZ1608,MPZ2012 | D25 | Automotive grade H=0.8mm |
| MMZ1608 , MPZ1608 | DH5 | Automotive grade H=0.6mm |

H=Product height per design specs

Part Number Update



Previously, the TDK ordering codes for some parts were used in a short format. TDK is now including these internal codes (full part number as part of the ordering code). This update has no impact on the product form fit and performance.

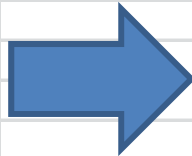
Previous Part number (Short format without Internal codes)

Example : MMZ1608R301C

New/Updated Part number format (with Internal codes)

Example : MMZ1608R301C**TA00**

Example parts before and after update

| Short Part number | | Full Part Number |
|-------------------|---|------------------|
| MMZ1005Y241C | | MMZ1005Y241CT000 |
| MMZ1005Y301C | | MMZ1005Y301CT000 |
| MMZ1005Y400C | | MMZ1005Y400CT000 |
| MMZ1005Y471C | | MMZ1005Y471CT000 |
| MMZ1005Y601C | | MMZ1005Y601CT000 |
| MMZ1005Y800C | | MMZ1005Y800CT000 |
| MMZ1608A152E |  | MMZ1608A152ETA00 |
| MMZ1608A182B | | MMZ1608A182BTA00 |
| MMZ1608A222B | | MMZ1608A222BTA00 |
| MMZ1608A252B | | MMZ1608A252BTA00 |
| MMZ1608B102C | | MMZ1608B102CTA00 |
| MMZ1608B121C | | MMZ1608B121CTAH0 |
| MMZ1608B221C | | MMZ1608B221CTAH0 |
| MMZ1608B301C | | MMZ1608B301CTAH0 |
| MMZ1608B471C | | MMZ1608B471CTAH0 |
| MMZ1608B601C | | MMZ1608B601CTAH0 |
| MMZ1608D100C | | MMZ1608D100CTAH0 |
| MMZ1608D121B | | MMZ1608D121BTA00 |
| MMZ1608D121C | | MMZ1608D121CTAH0 |
| MMZ1608D220C | | MMZ1608D220CTAH0 |