



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
MMZ	0402	S	121	C	T	000
	0402	A	120	C	Taping	000
	0603	B		A		A00
	1005	D		B		AH0
	1608	F		H		
	1608	Q				
	2012	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
MMZ	0603	S	601	E	T	000
	0603	S	600	E	Taping	000
	1005	A	102			
		D	1000			
		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
MMZ	1005	AFZ	750	V	T	000
	1005	AFZ	75	V	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	
1608	1.6	0.8	Y			A			DH5	
	1.6	0.8	B			B				
2012	2.0	1.25	R							
			D							

Power Line

For power line
GHz noise countermeasure

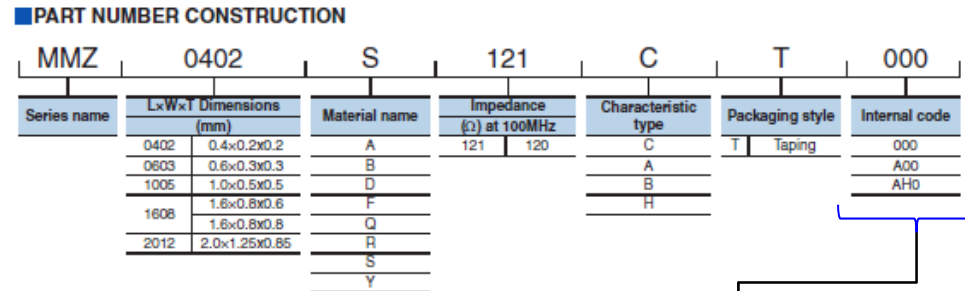
■ PART NUMBER CONSTRUCTION

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.

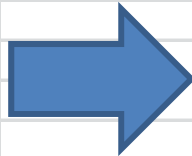
Previous Part number (Short format without Internal codes)

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