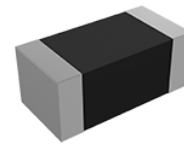


# Multilayer Chip Audio Bead – MZA Series

Operating Temp. : -55°C~+125°C



## FEATURES

- Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- Perfect effect for EMI suppression at high frequency
- Low DC resistance suitable for large current signals
- Excellent performance of THD+N

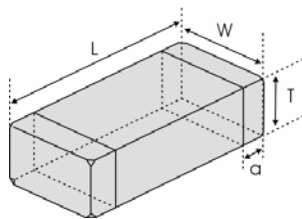
## APPLICATIONS

- Mobile phones, TV sound frequency equipment such as audio line isolation EMI

## PRODUCT IDENTIFICATION

<u>MZAH</u> ①		<u>1608</u> ②		<u>G</u> ③		<u>471</u> ④		<u>-1R6</u> ⑤		<u>T</u> ⑥		<u>F</u> ⑦	
Type		External Dimensions (LxW) (mm)		Rated Current		Packing		Nominal Impedance		Hazardous Substance		Free Products	
MZAS	Audio Filter for High Speed Signal	1005 [0402]	1.0x0.5	R40	0.4A	T	Tape & Reel	Example	Nominal Value	Hazardous Substance		Free Products	
MZAH	Audio Filter for High Frequency Noise	1608 [0603]	1.6x0.8	1R6	1.6A			471	470Ω	Free Products		F	
MZA	Audio Filter for wide rang frequency noise	2016 [0806]	2.0x1.6					152	1500Ω				
Material Code													
F, G, K, D													

## SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a
MZAH/MZAS 1005 [0402]	1.0±0.15 [.039±.006]	0.5±0.15 [.020±.006]	0.5±0.15 [.020±.006]	0.25±0.1 [.010±.004]
MZAH/MZAS 1608 [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.3±0.2 [.012±.008]
MZAS2016 [0806]	2.0 (+0.3, -0.1) [.079 (+.012, -.004)]	1.6±0.2 [.063±.008]	0.9±0.1 [.035±.004]	0.5±0.3 [.020±.012]
MZAS3225 [1210]	3.20±0.20 [0.126±0.008]	2.50±0.20 [0.098±0.008]	2.0±0.2 [0.079±0.008]	0.7±0.3 [0.028±0.012]

## SPECIFICATIONS

### MZAH1005 Series

Part Number	Impedance			Max. DC Resistance	Max. Rated Current	Thickness
	@900MHz(Typ.)	@900MHz(Min.)	@1.7GHz(Typ.)			
Units	$\Omega$			$\Omega$	mA	mm [inch]
Symbol	Z			DCR	Ir	T
MZAH1005F101-1R1TF	100	70	160	0.100	1100	0.5±0.15 [0.020±0.006]
MZAH1005F331-R65TF	330	230	540	0.300	650	
MZAH1005F461-R90TF	460	300	600	0.170	900	
MZAH1005F771-R50TF	770	530	900	0.500	500	
MZAH1005F152-R40TF	1500	1000	1000	0.600	400	
MZAH1005F262-R35TF	2600	1800	1450	0.800	350	
MZAH1005F352-R27TF	3500	2500	1600	1.350	270	
MZAH1005F462-R27TF	4600	2800	1800	1.650	270	

### MZAH1608 Series

Part Number	Impedance			Max. DC Resistance	Max. Rated Current	Thickness
	@900MHz(Typ.)	@900MHz(Min.)	@1.7GHz(Typ.)			
Units	$\Omega$			$\Omega$	mA	mm [inch]
Symbol	Z			DCR	Ir	T
MZAH1608G471-1R6TF	470	280	270	0.075	1600	0.8±0.15 [.031±.006]

### MZAS1005 Series

Part Number	Impedance	Z Test Freq.	Max. DC Resistance	Max. Rated Current	Thickness
Units	$\Omega$	MHz	$\Omega$	mA	mm [inch]
Symbol	Z	Freq.	DCR	Ir	T
MZAS1005G700-R90TF	70±25%	100	0.200	900	0.5±0.15 [0.020±0.006]
MZAS1005G121-R80TF	120±25%	100	0.300	800	
MZAS1005G221-R70TF	220±25%	100	0.400	700	
MZAS1005K102-R23TF	1000±25%	100	0.900	230	

### MZAS1608 Series

Part Number	Impedance	Z Test Freq.	Max. DC Resistance	Max. Rated Current	Thickness
Units	$\Omega$	MHz	$\Omega$	mA	mm [inch]
Symbol	Z	Freq.	DCR	Ir	T
MZAS1608G600-1R2TF	60±25%	100	0.130	1200	0.8±0.15 [.031±.006]
MZAS1608G121-1R3TF	120±25%	100	0.140	1300	
MZAS1608G251-1R1TF	250±25%	100	0.190	1100	
MZAS1608K501-R95TF	500±25%	100	0.250	950	
MZAS1608K701-R80TF	700±25%	100	0.290	800	

## SPECIFICATIONS

### MZAS2016 Series

Part Number	Impedance	Z Test Freq.	Max. DC Resistance	Max. Rated Current	Thickness
Units	$\Omega$	MHz	$\Omega$	mA	mm [inch]
Symbol	Z	Freq.	DCR	I <sub>r</sub>	T
MZAS2016G401-2R0TF	400±25%	100	0.10	2000	0.9±0.1 [.035±.004]

### MZAS3225 Series

Part Number	Impedance	Z Test Freq.	Max. DC Resistance	Max. Rated Current	Thickness
Units	$\Omega$	MHz	$\Omega$	mA	mm [inch]
Symbol	Z	Freq.	DCR	I <sub>r</sub>	T
MZAS3225D300TF	20~40	100	0.0016	10000	2.0±0.2 [0.079±0.008]
MZAS3225D681-4R0TF	680±25%	100	0.035	4000	1.5±0.2 [0.059±0.008]

### MZA1608 Series

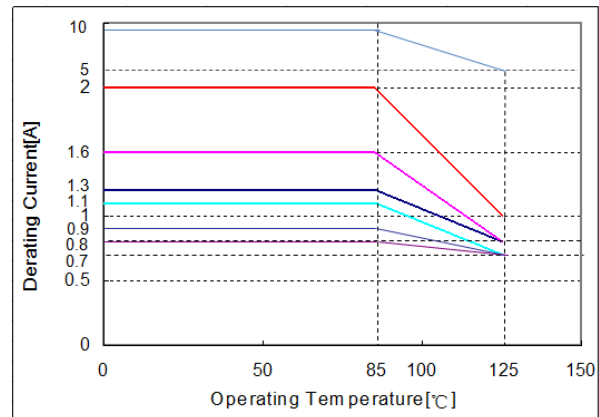
Part Number	Impedance			Max. DC Resistance	Max. Rated Current	Thickness
	@100MHz(Typ.)	@900MHz(Typ.)	@900MHz(Min.)			
Units	$\Omega$			$\Omega$	mA	mm [inch]
Symbol	Z			DCR	I <sub>r</sub>	T
MZA1608K331-1R2TF	330±25%	650	470	0.12	1200	0.8±0.15 [.031±.006]

※: Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

## TYPICAL ELECTRICAL CHARACTERISTICS

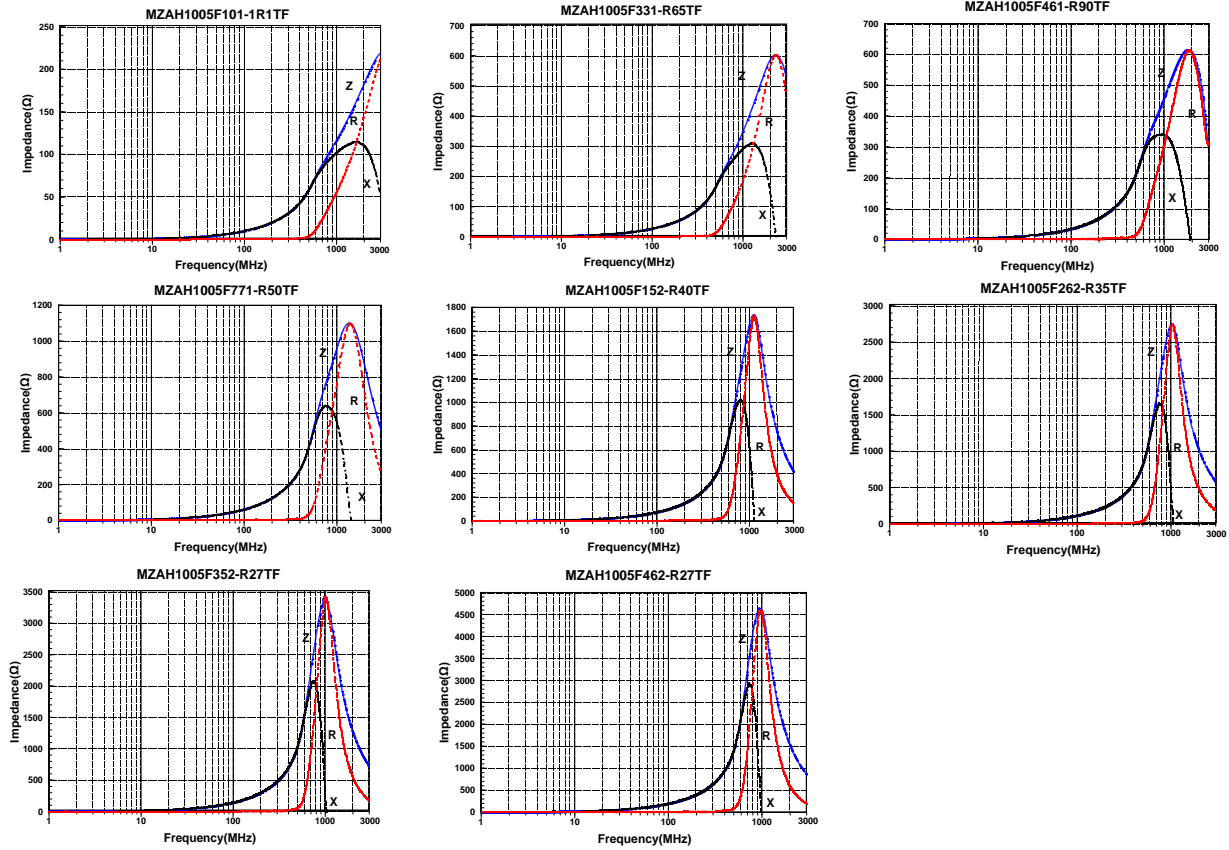
### Rated Current

When operating temperatures exceed +85°C, derating of current is necessary for chip ferrite beads for which rated current is 800mA and over. Please apply the derating curve shown in chart according to the operating temperature.

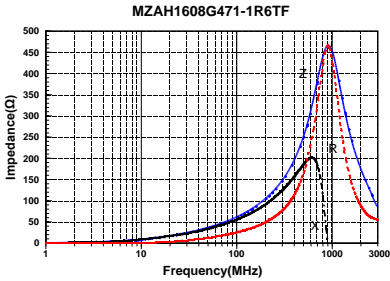


# DETAIL ELECTRICAL CHARACTERISTICS

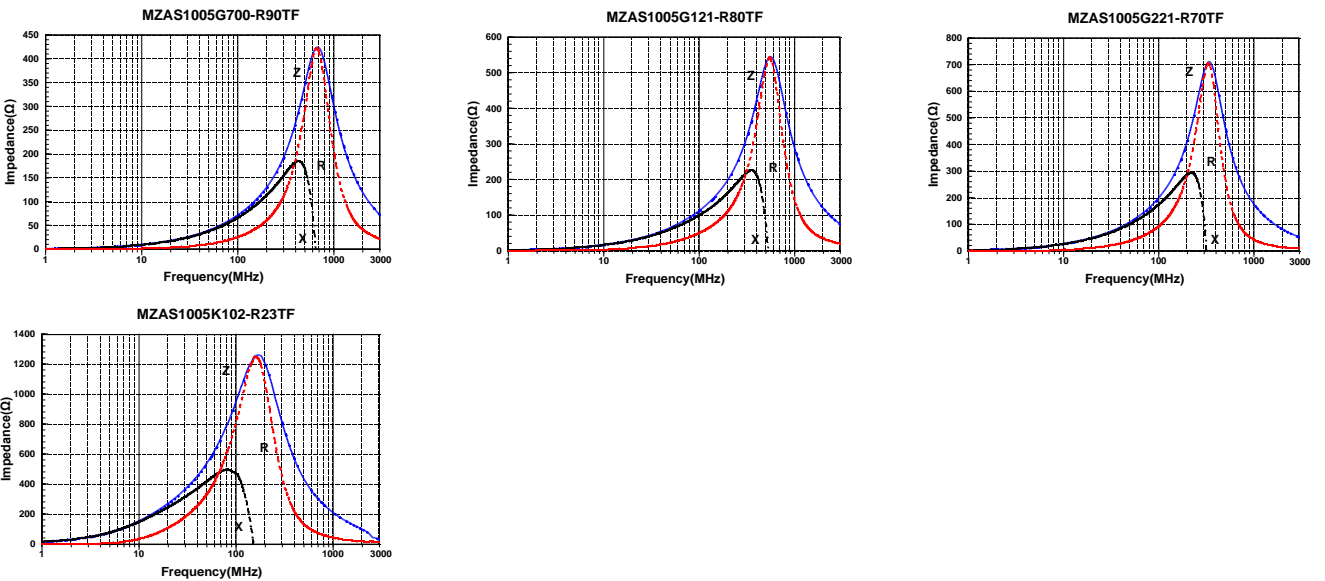
## MZAH1005 Series



## MZAH1608 Series

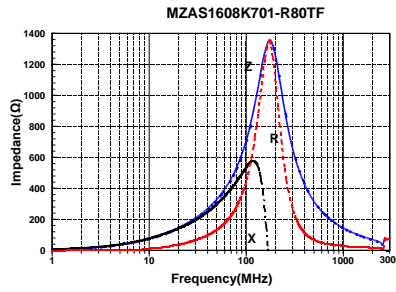
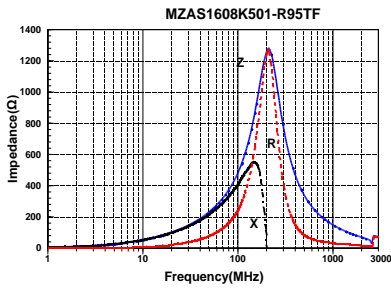
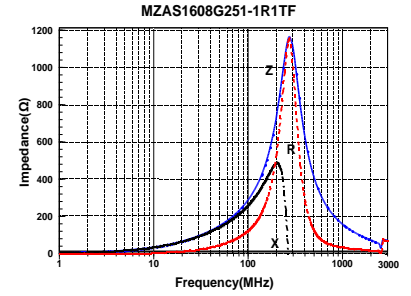
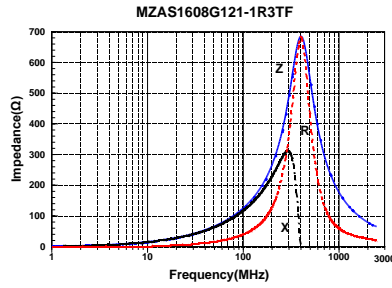
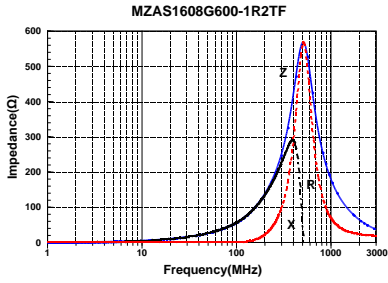


## MZAS1005 Series

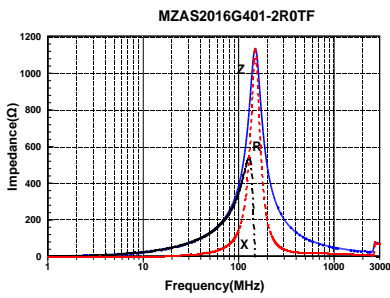


# DETAIL ELECTRICAL CHARACTERISTICS

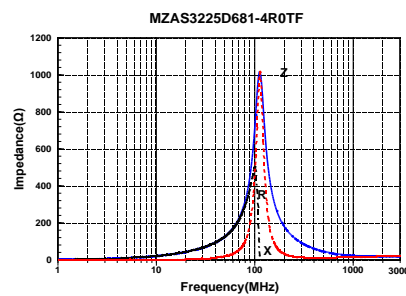
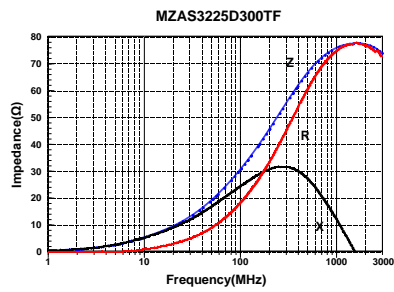
## MZAS1608 Series



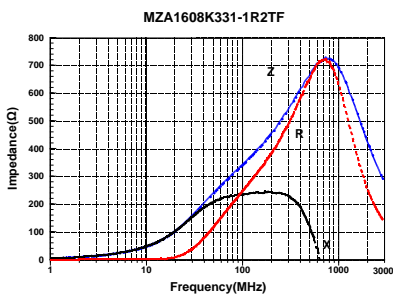
## MZAS2016 Series



## MZAS3225 Series



## MZA1608 Series



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