

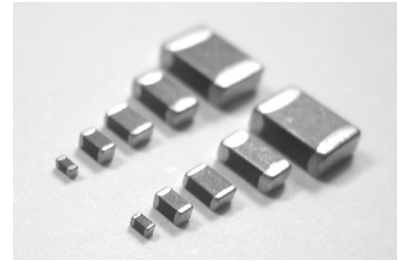
## 1. MTBS Series

Range of Size: (0603(0201)~3216(1206))

Test Equipment : E4991A IMPEDANCE ANALYZER

Operating Temperature : -55 ~+125

The max. rated current: the DC current value having temp. increased 40 after thro. DC current 2 hours at ambient temp.

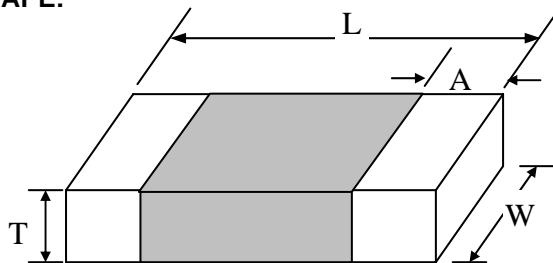


### Features

- > The impedance characteristics mainly comprise resistive components (R), so when an element is inserted in series with a noise conduction passage, the noise content can be attenuated.
- > Either flow or reflow soldering methods can be used due to electroplating of the terminal electrodes.
- > High reliability due to an entirely monolithic structure.
- > Low DC resistance structure of electrode prevents wasteful electric power consumption.

### General Dimensions and Configuration

#### SHAPE:



Unit: mm

#### EQUIVALENT CIRCUIT DIAGRAM:

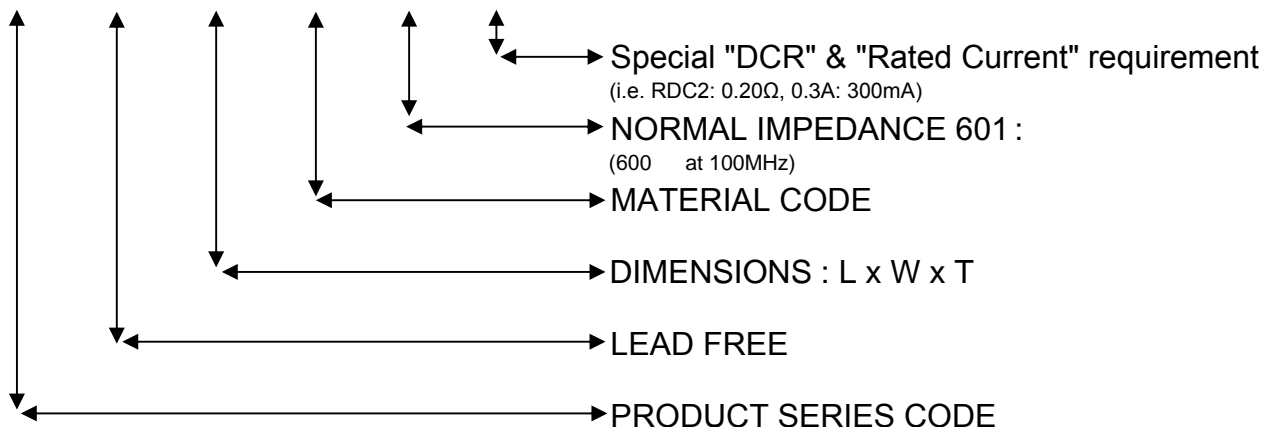


#### DIMENSIONS:

SHAPE	L (m/m)	W (m/m)	T (m/m)	A (m/m)	Net Weight (mg)
060303(0201)	0.60±0.03	0.30±0.03	0.30±0.03	0.10~0.20	0.26
100505(0402)	1.00±0.05	0.50±0.05	0.50±0.05	0.10~0.30	1.10
160808(0603)	1.60±0.15	0.80±0.15	0.80±0.15	0.20~0.60	5.80
201209(0805)	2.00±0.20	1.25±0.20	0.90+0.15/-0.20	0.20~0.80	12.00
321611(1206)	3.20±0.20	1.60±0.20	1.10±0.20	0.40~1.00	28.00

### Part Numbering Systems

MTB S 100505 A 601 0.3A



## (I) MULTILAYER FERRITE CHIP BEADS

Tri-Tron

### 1. MTBS Series (Size: 1005 (0402))

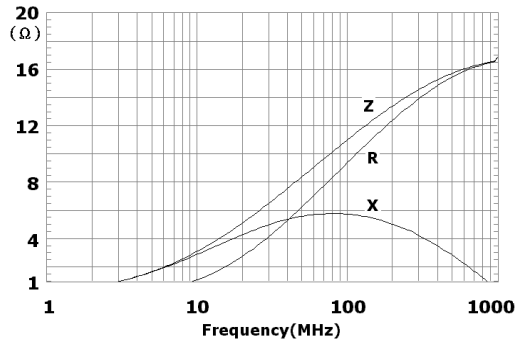
#### Electrical Characteristics

Part No.	Impedance ( ) $\pm 25\%$ (100MHz, 500mV)	DC Resistance (Max.)	Rated Current mA (Max.)
MTBS100505A100	10	0.05	500
MTBS100505A300	30	0.20	300
MTBS100505A600	60	0.40	200
MTBS100505A600 0.5A	60	0.15	500
MTBS100505A700	70	0.40	200
MTBS100505A800	80	0.40	200
MTBS100505A101	100	0.45	200
MTBS100505A121	120	0.50	200
MTBS100505A121 0.5A	120	0.25	500
MTBS100505A151	150	0.60	200
MTBS100505A181	180	0.65	100
MTBS100505A221	220	0.70	100
MTBS100505A301	300	0.75	100
MTBS100505A331	330	0.75	100
MTBS100505A471	470	0.90	100
MTBS100505A501	500	1.00	100
MTBS100505A601	600	1.10	50
MTBS100505A601 0.3A	600	0.60	300
MTBS100505A102	1000	1.50	50
MTBS100505A102 0.2A	1000	1.00	200
MTBS100505B600	60	0.40	200
MTBS100505B101	100	0.50	200
MTBS100505B121	120	0.50	200
MTBS100505B221	220	0.80	100
MTBS100505B301	300	0.85	100
MTBS100505B471	470	1.00	100
MTBS100505B601	600	1.50	50
MTBS100505K300	30	0.15	300
MTBS100505K600	60	0.30	200
MTBS100505K101	100	0.50	200
MTBS100505K121	120	0.50	200
MTBS100505K221	220	0.80	100
MTBS100505K301	300	0.85	100
MTBS100505K471	470	1.00	100
MTBS100505K601	600	1.50	50
MTBS100505H100	10	0.10	500
MTBS100505H300	30	0.20	300
MTBS100505H600	60	0.40	300
MTBS100505H101	100	0.55	300
MTBS100505H121	120	0.55	300
MTBS100505H221	220	0.80	200
MTBS100505H471	470	1.50	50
MTBS100505H601	600	2.50	50

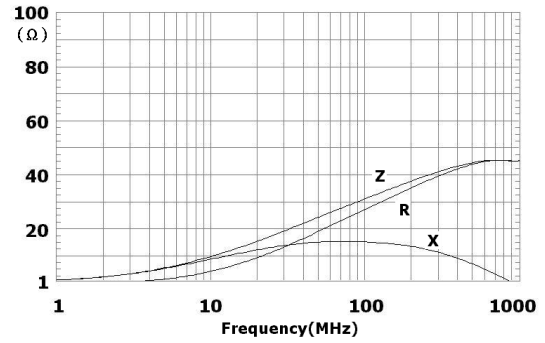
**1. MTBS Series (Size: 1005 (0402))**

**Rating Curves**

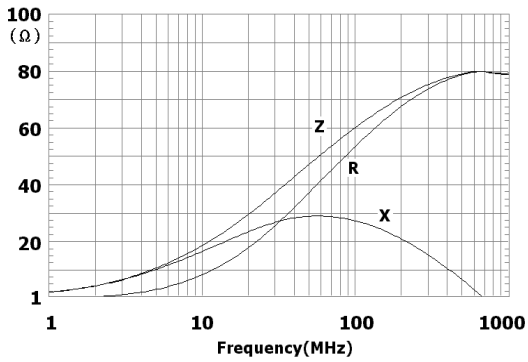
**MTBS100505A100**



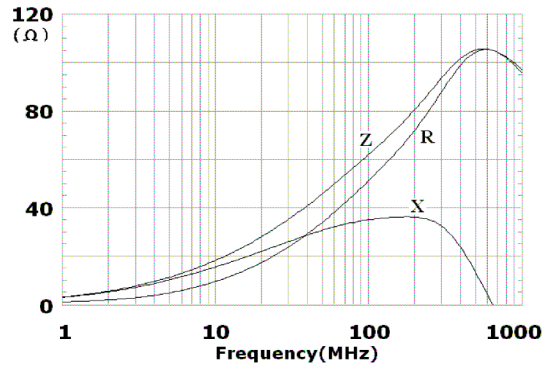
**MTBS100505A300**



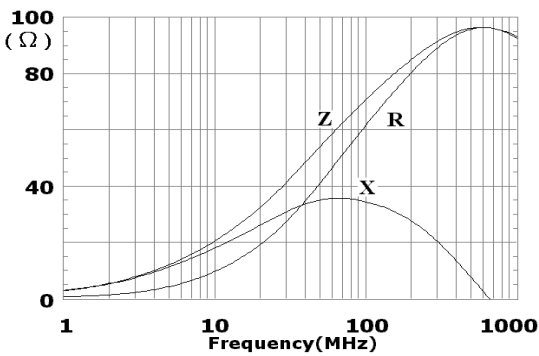
**MTBS100505A600**



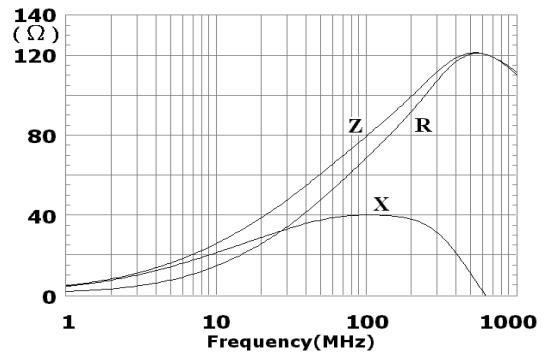
**MTBS100505A600 0.5A**



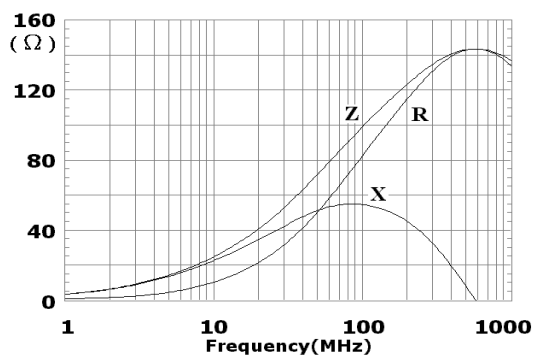
**MTBS100505A700**



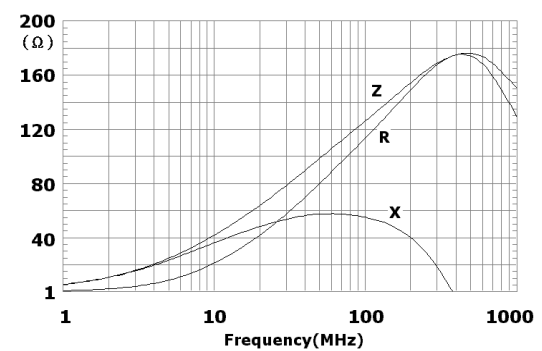
**MTBS100505A800**



**MTBS100505A101**



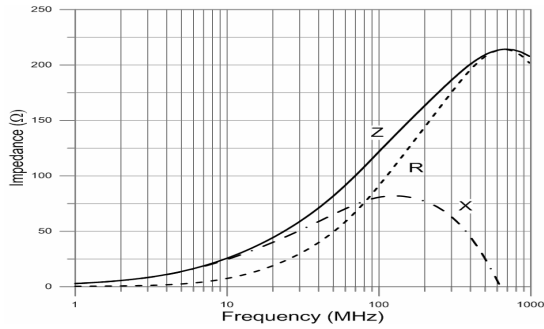
**MTBS100505A121**



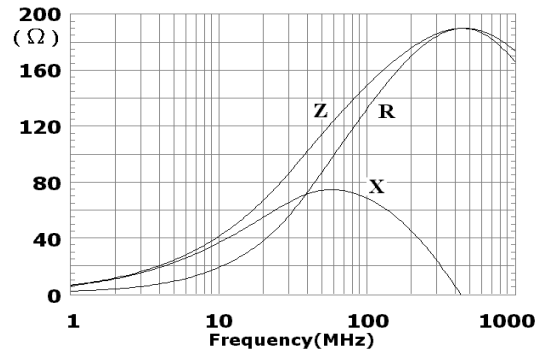
## 1. MTBS Series (Size: 1005 (0402))

### Rating Curves (Cont'd)

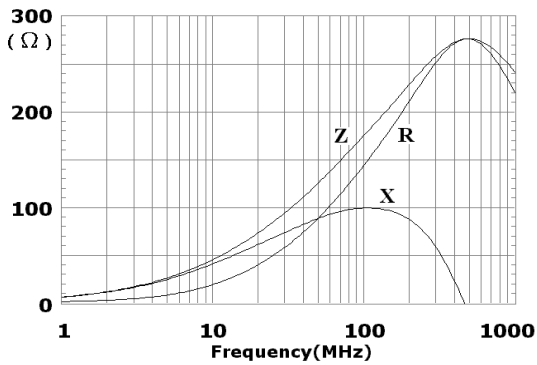
MTBS100505A121 0.5A



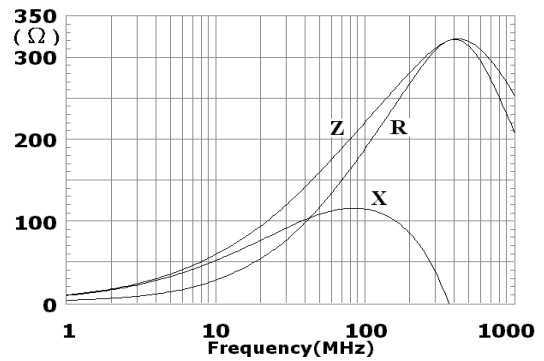
MTBS100505A151



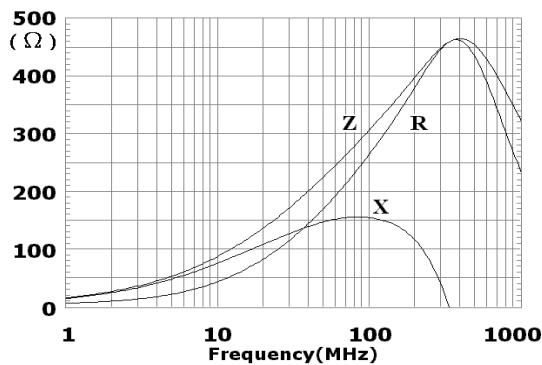
MTBS100505A181



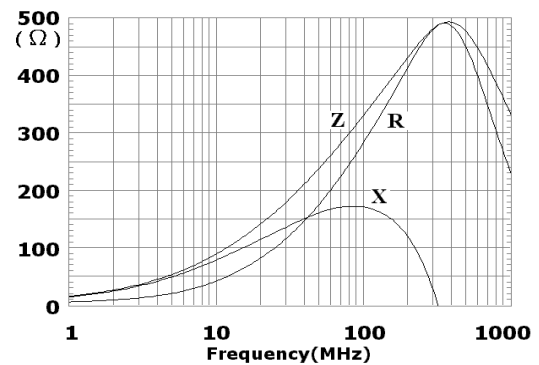
MTBS100505A221



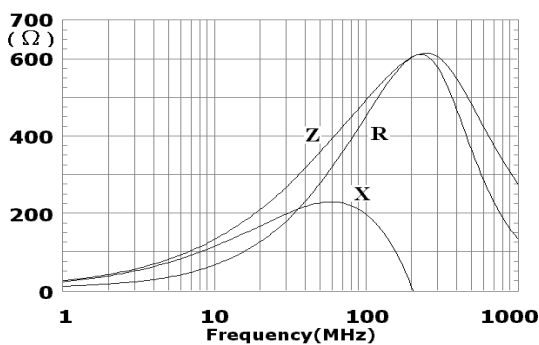
MTBS100505A301



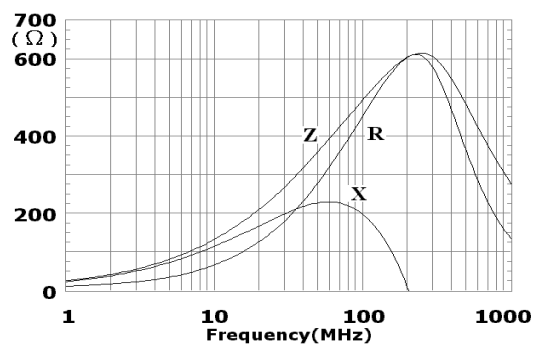
MTBS100505A331



MTBS100505A471



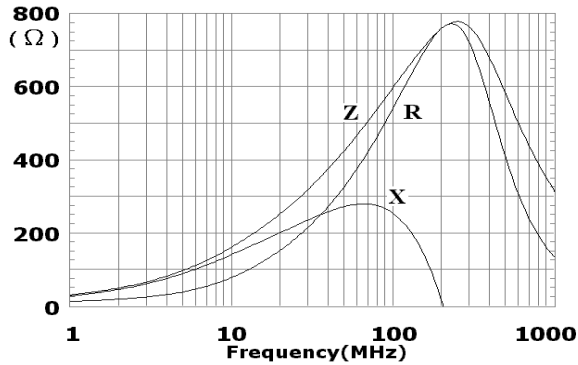
MTBS100505A501



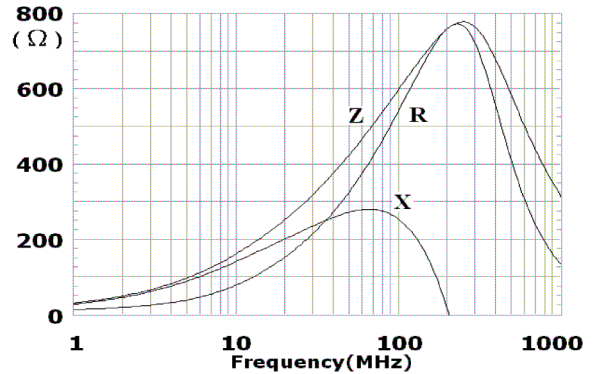
**1. MTBS Series (Size: 1005 (0402))**

**Rating Curves (Cont'd)**

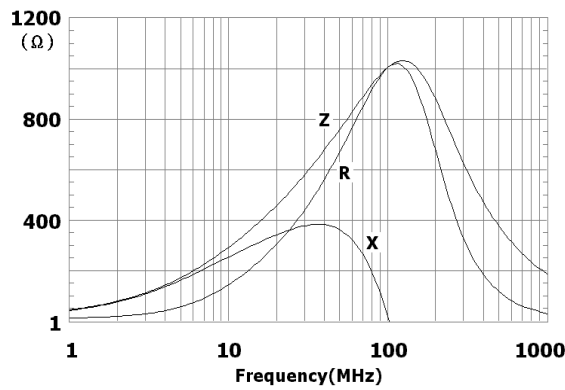
**MTBS100505A601**



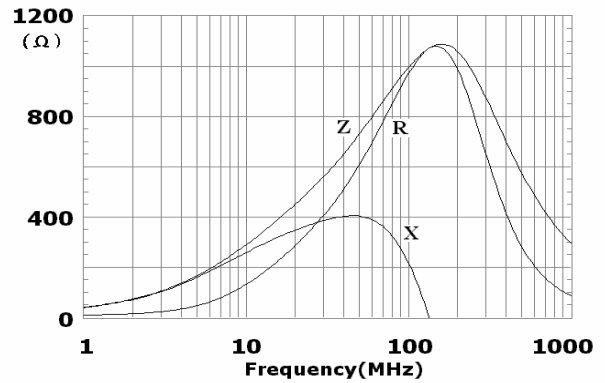
**MTBS100505A601 0.3A**



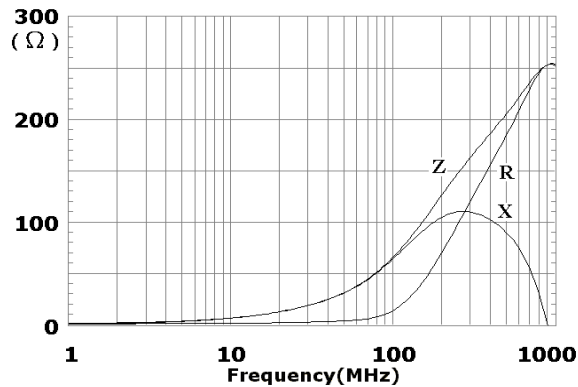
**MTBS100505A102**



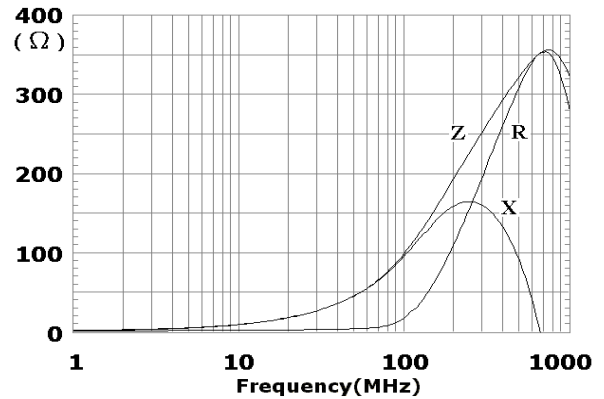
**MTBS100505A102 0.2A**



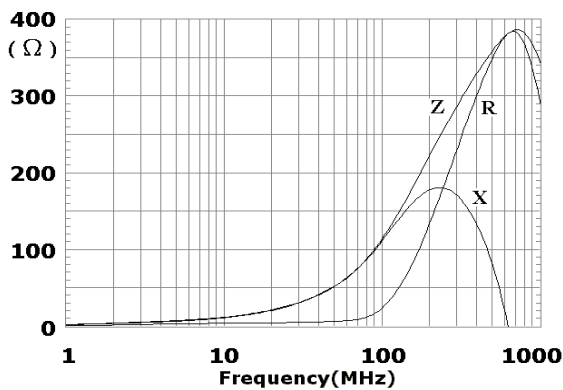
**MTBS100505B600**



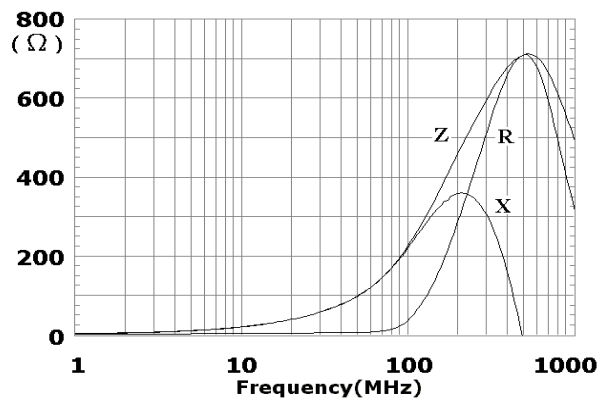
**MTBS100505B101**



**MTBS100505B121**



**MTBS100505B221**



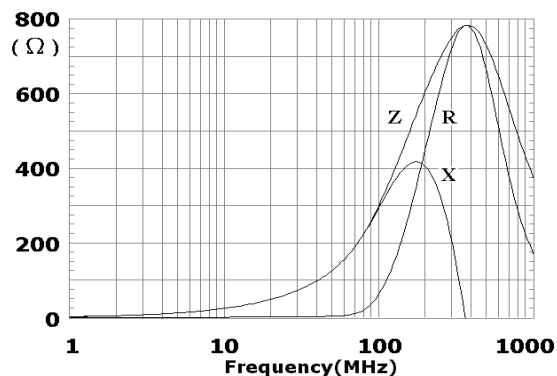
# *(I) MULTILAYER FERRITE CHIP BEADS*

Tri-Tron

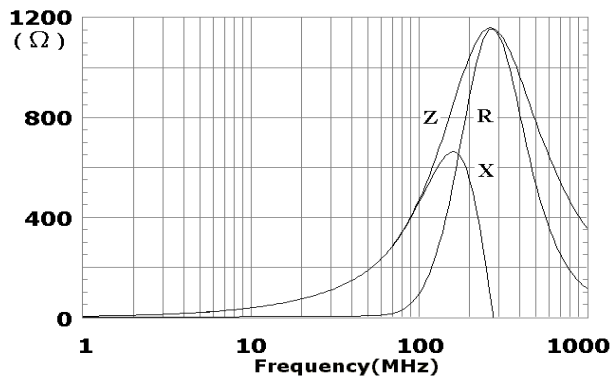
## 1. MTBS Series (Size: 1005 (0402))

### Rating Curves (Cont'd)

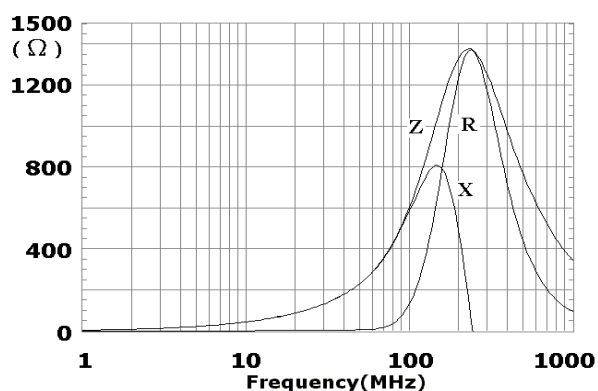
MTBS100505B301



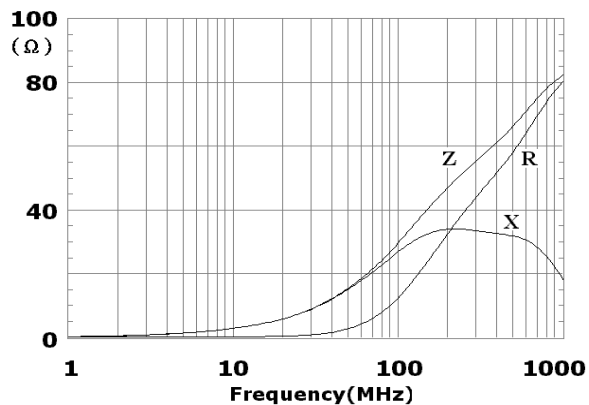
MTBS100505B471



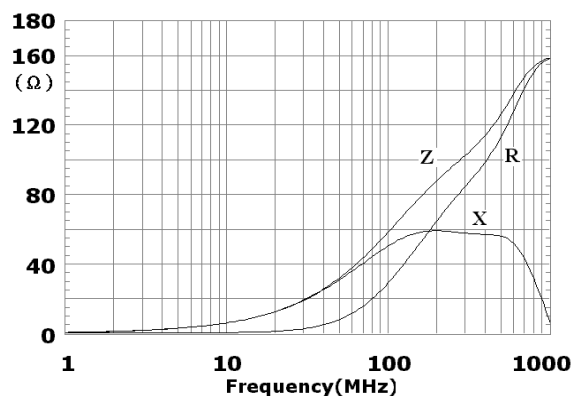
MTBS100505B601



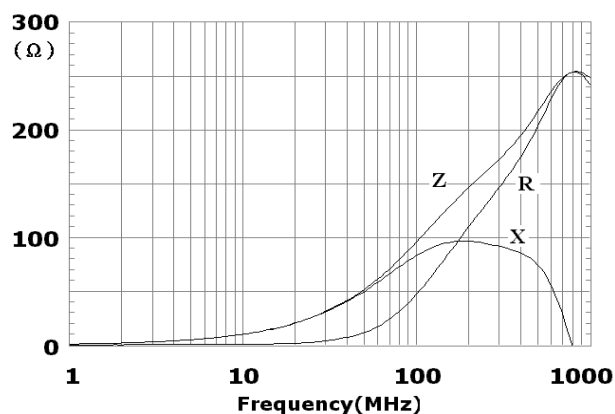
MTBS100505K300



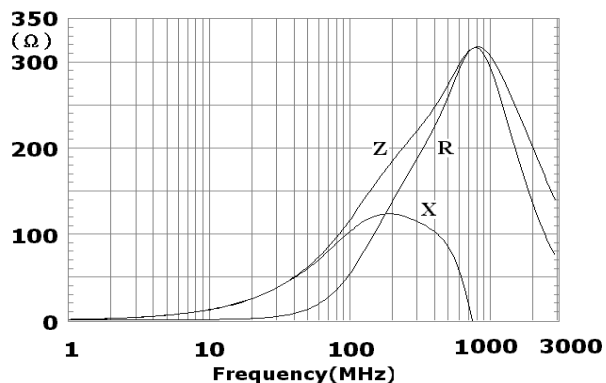
MTBS100505K600



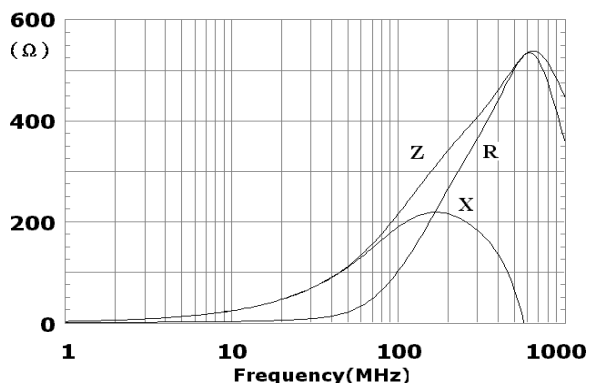
MTBS100505K101



MTBS100505K121



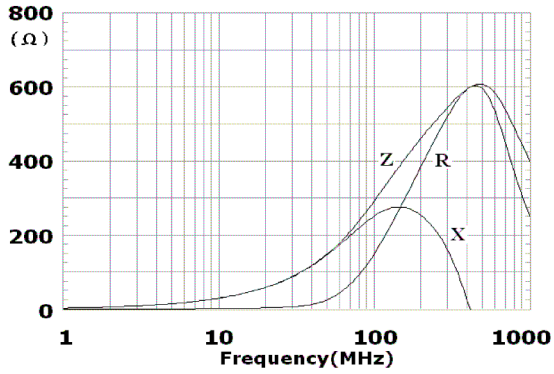
MTBS100505K221



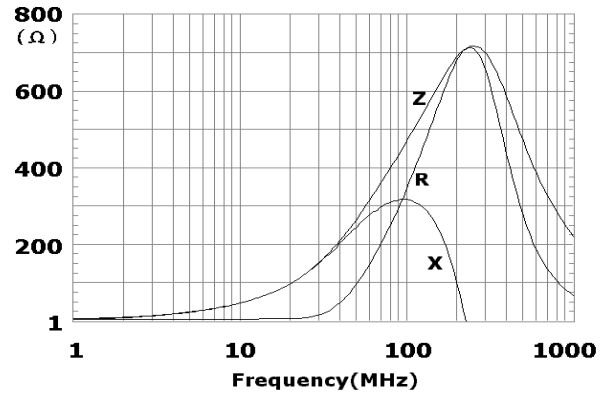
**1. MTBS Series (Size: 1005 (0402))**

**Rating Curves (Cont'd)**

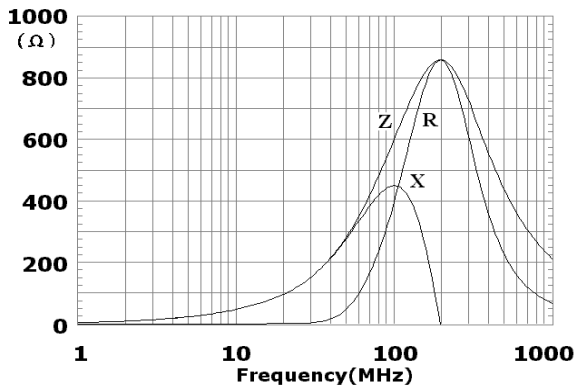
**MTBS100505K301**



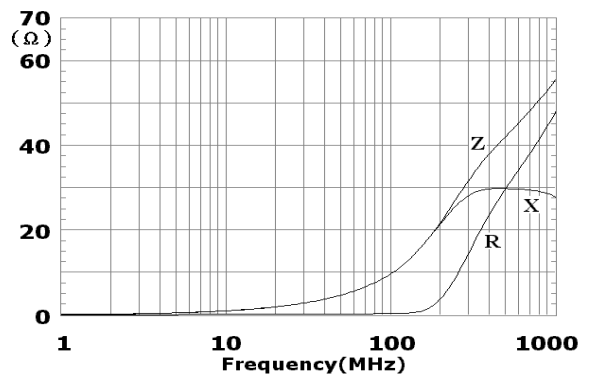
**MTBS100505K471**



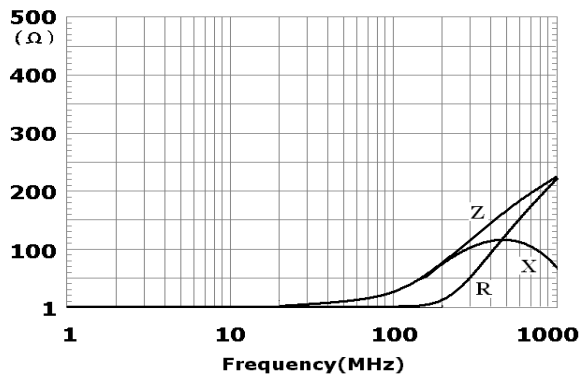
**MTBS100505K601**



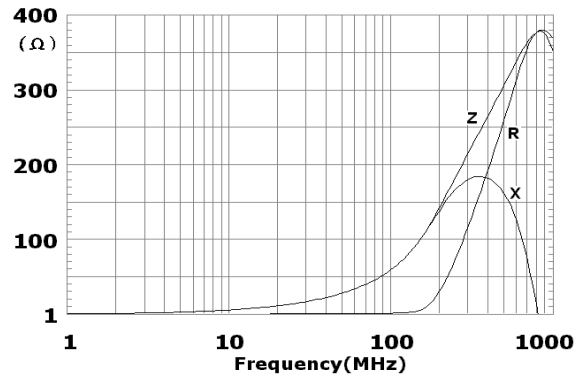
**MTBS100505H100**



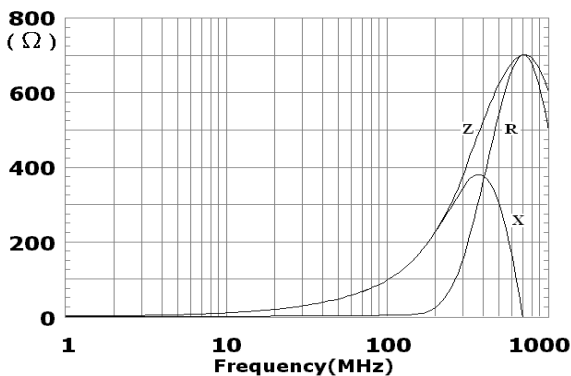
**MTBS100505H300**



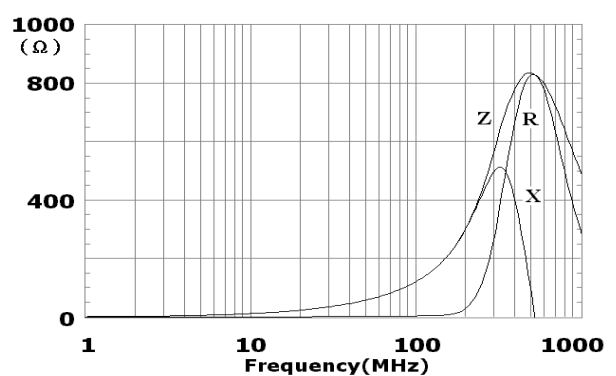
**MTBS100505H600**



**MTBS100505H101**



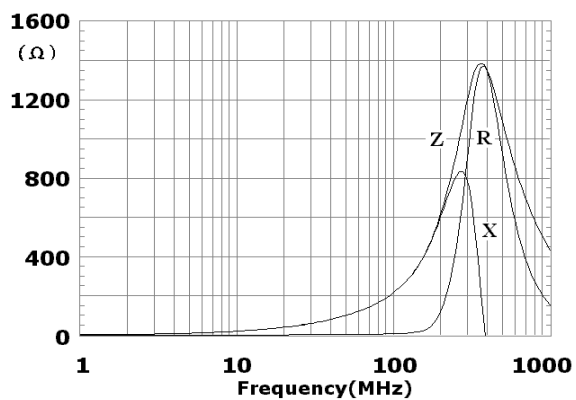
**MTBS100505H121**



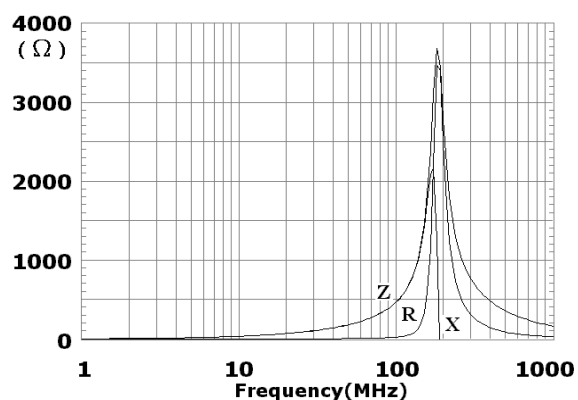
**1. MTBS Series (Size: 1005 (0402))**

**Rating Curves (Cont'd)**

**MTBS100505H221**



**MTBS100505H471**



**MTBS100505H601**

