

### 开磁路功率电感

Unshielded Power Inductor (Wire Wound)



#### 特性

Characteristics

铁氧体绕线

Wire wound on ferrite

工作温度:  $-40^{\circ}\text{C}$ 至 $+105^{\circ}\text{C}$

Operating temperature:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$

#### 应用

Application

调谐器、应答器等射频电路

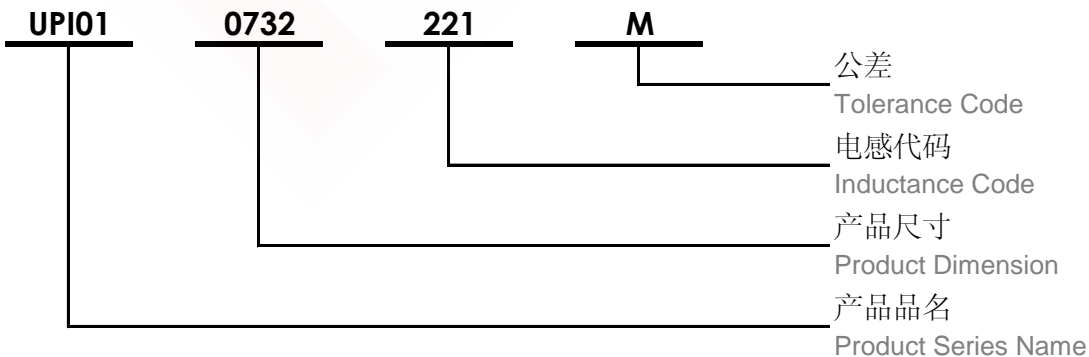
RF circuits like tuner, transponder etc.

射频放大器电路, 如天线放大器

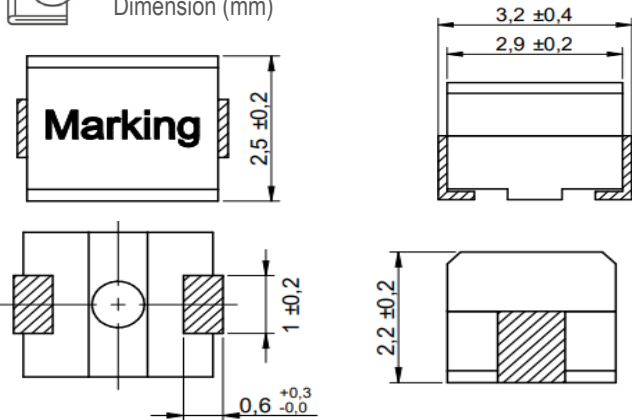
RF amplifier circuits like antennas amplifier

#### 产品品名介绍

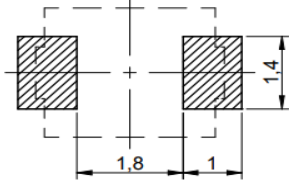
Product Number Structure



### 尺寸 Dimension (mm)



### 焊盘推荐 Land Pattern Recommended (mm)



### 示意图 Schematics



### 电性特性 Electrical Properties

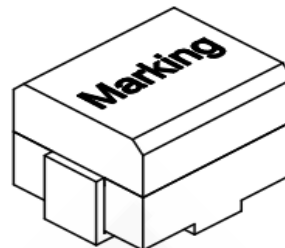
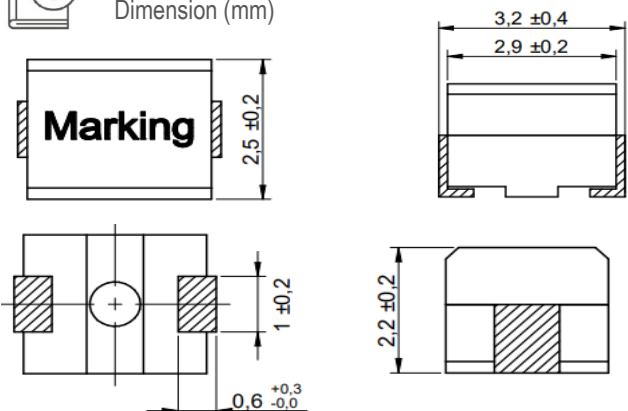
型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>r</sub> max 20°C (mA)	直流电阻 DC Resistance DCR <sub>max</sub> (Ω)	Q 值 Q Factor 25.2MHz min.	卷盘数量 Taping Reel Qty. pcs
UPI01-3225-R22K	0.22 ±10%	450	0.32	30.00	1,000
UPI01-3225-R27K	0.27 ±10%	450	0.36	30.00	1,000
UPI01-3225-R33K	0.33 ±10%	450	0.40	30.00	1,000
UPI01-3225-R39K	0.39 ±10%	450	0.45	30.00	1,000
UPI01-3225-R47K	0.47 ±10%	450	0.50	30.00	1,000
UPI01-3225-R56K	0.56 ±10%	450	0.55	30.00	1,000
UPI01-3225-R68K	0.68 ±10%	450	0.60	30.00	1,000
UPI01-3225-R82K	0.82 ±10%	450	0.65	30.00	1,000
UPI01-3225-1R0K	1.00 ±10%	400	0.70	30.00	1,000
UPI01-3225-1R2K	1.20 ±10%	390	0.75	30.00	1,000
UPI01-3225-1R5K	1.50 ±10%	370	0.85	30.00	1,000
UPI01-3225-1R8K	1.80 ±10%	350	0.90	30.00	1,000
UPI01-3225-2R2K	2.20 ±10%	320	1.00	30.00	1,000
UPI01-3225-2R7K	2.70 ±10%	290	1.10	30.00	1,000
UPI01-3225-3R3K	3.30 ±10%	260	1.20	30.00	1,000

### 测试状态

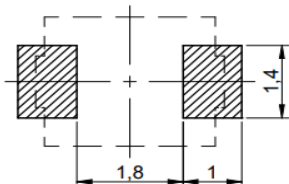
Test Condition

- ☆ 电感测试条件为 25.2 MHz  
Inductance measure condition at 25.2 kHz
- ☆ 工作温度: -40°C ~ +105°C  
Operating Temperature: -40°C ~ +105°C

### 尺寸 Dimension (mm)



### 焊盘推荐 Land Pattern Recommended (mm)



### 示意图 Schematics



### 电性特性 Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>r</sub> max 20°C (mA)	直流电阻 DC Resistance DCR <sub>max</sub> (Ω)	Q 值 Q Factor 25.2MHz min.	卷盘数量 Taping Reel Qty. pcs
UPI01-3225-3R3K	3.30 ±10%	250	1.30	30.00	1,000
UPI01-3225-4R7K	4.70 ±10%	220	1.50	30.00	1,000
UPI01-3225-6R8K	6.80 ±10%	180	1.80	30.00	1,000
UPI01-3225-100K	10.00 ±10%	150	2.10	30.00	1,000
UPI01-3225-120K	12.00 ±10%	140	2.50	30.00	1,000
UPI01-3225-150K	15.00 ±10%	130	2.80	30.00	1,000
UPI01-3225-180K	18.00 ±10%	120	3.30	30.00	1,000
UPI01-3225-220K	22.00 ±10%	110	3.70	30.00	1,000
UPI01-3225-330K	33.00 ±10%	70	5.60	30.00	1,000
UPI01-3225-390K	39.00 ±10%	65	6.40	30.00	1,000
UPI01-3225-470K	47.00 ±10%	60	7.00	30.00	1,000
UPI01-3225-560K	56.00 ±10%	55	8.00	30.00	1,000
UPI01-3225-680K	68.00 ±10%	50	9.00	30.00	1,000
UPI01-3225-101K	100.00 ±10%	40	11.00	20.00	1,000

### 测试状态

Test Condition

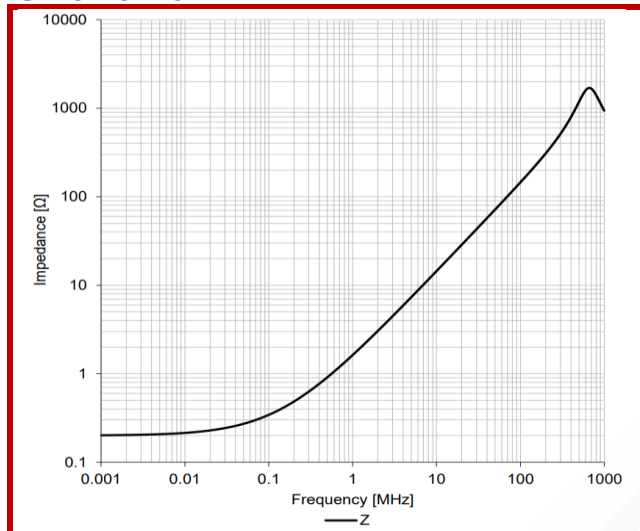
- ☆ 电感测试条件为 25.2 MHz  
Inductance measure condition at 25.2 kHz
- ☆ 工作温度: -40°C ~ +105°C  
Operating Temperature: -40°C ~ +105°C



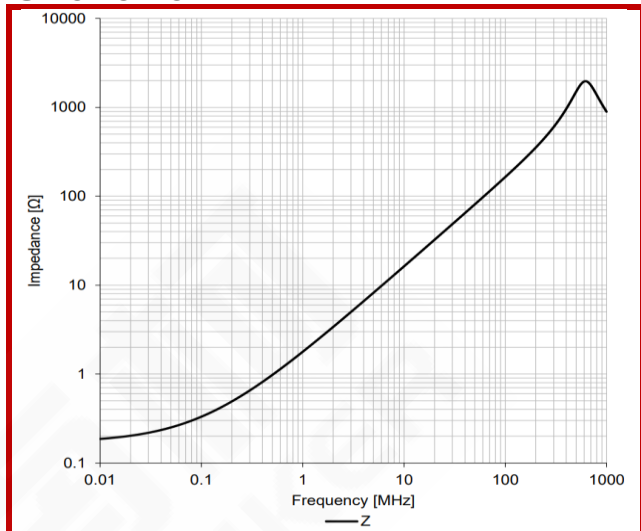
### 典型阻抗特性

Typical Impedance Characteristics

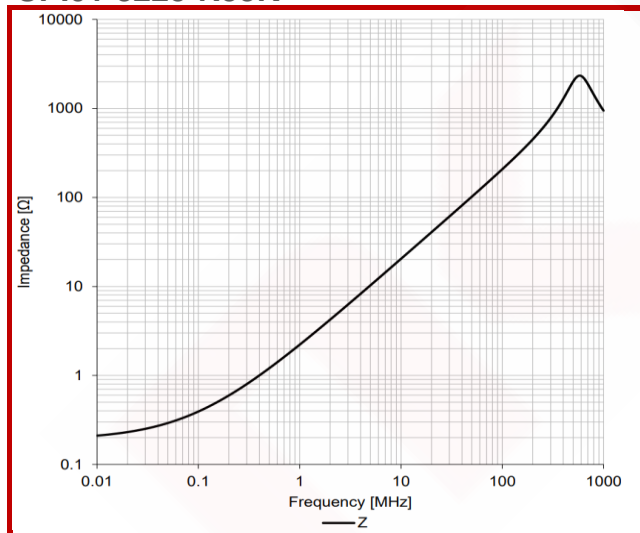
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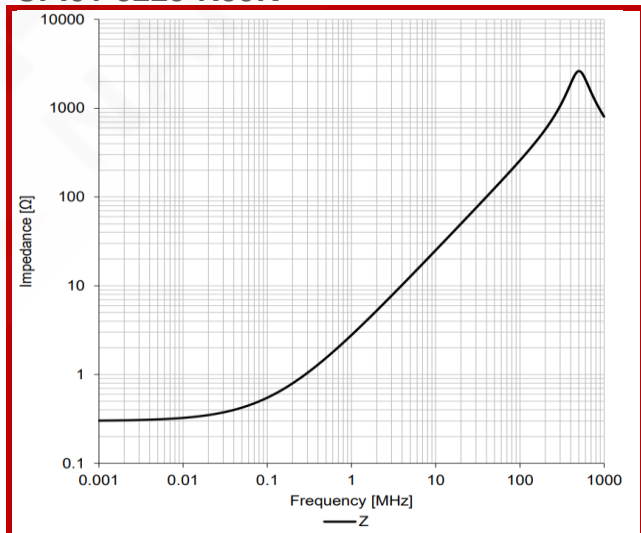
#### UPI01-3225-R27K



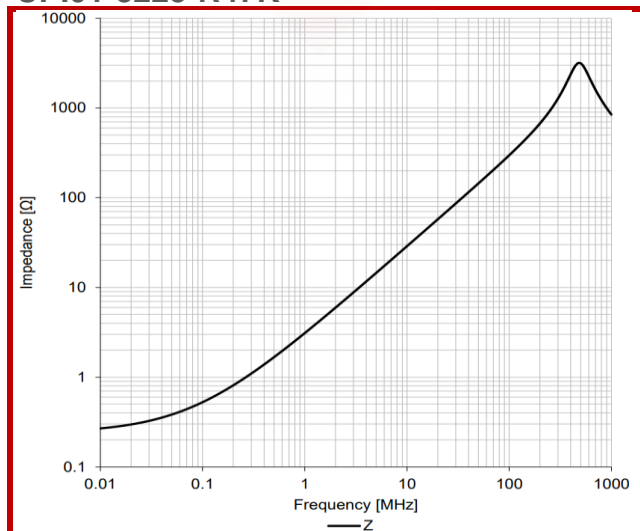
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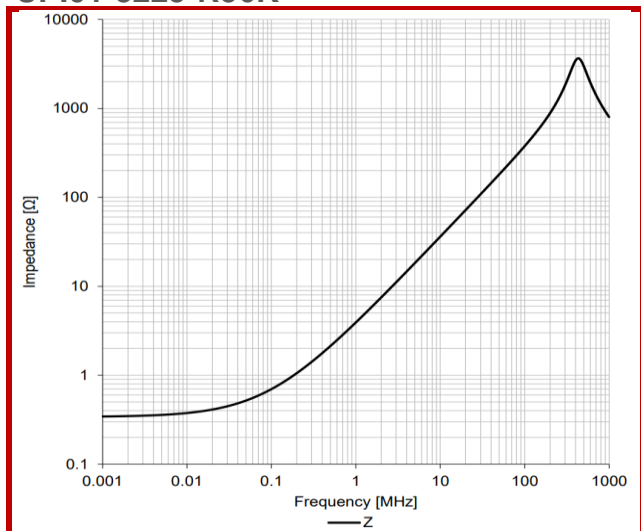
#### UPI01-3225-R39K



#### UPI01-3225-R47K



#### UPI01-3225-R56K

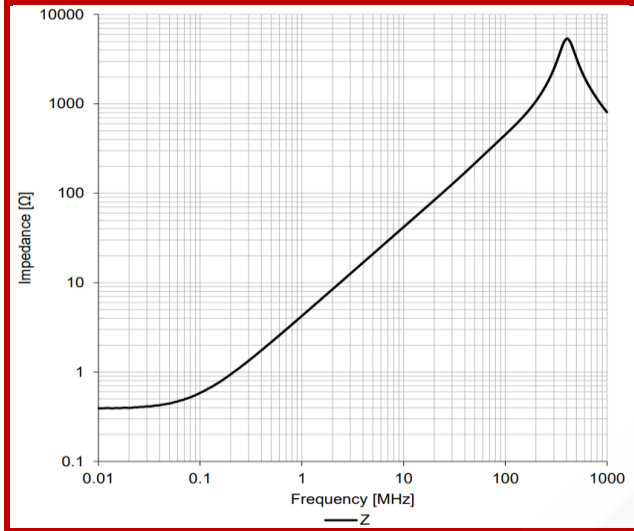




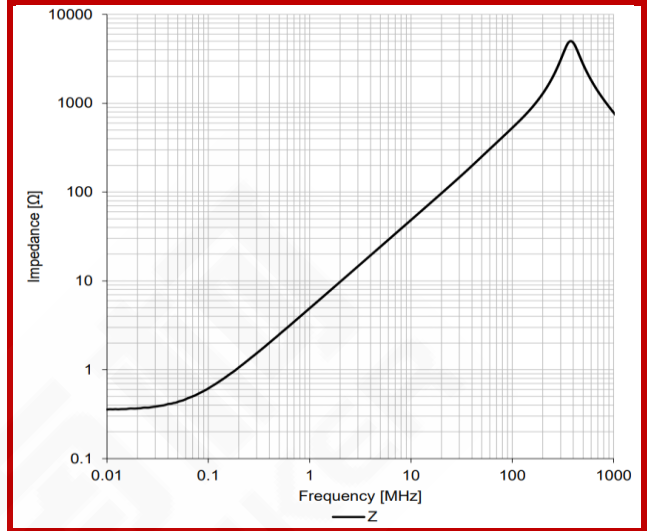
### 典型阻抗特性

Typical Impedance Characteristics

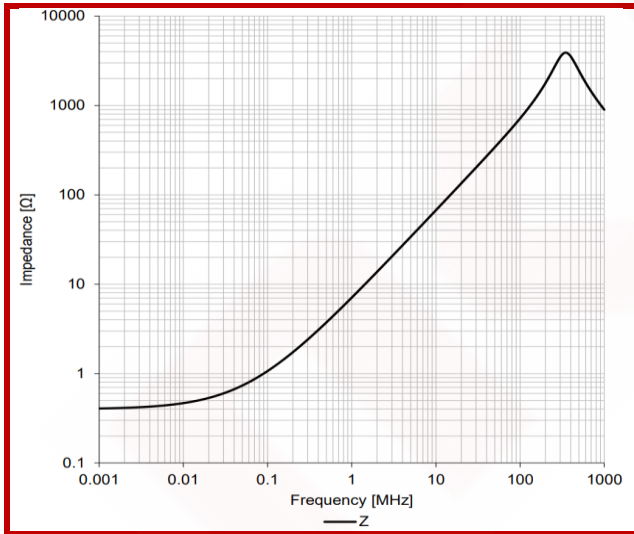
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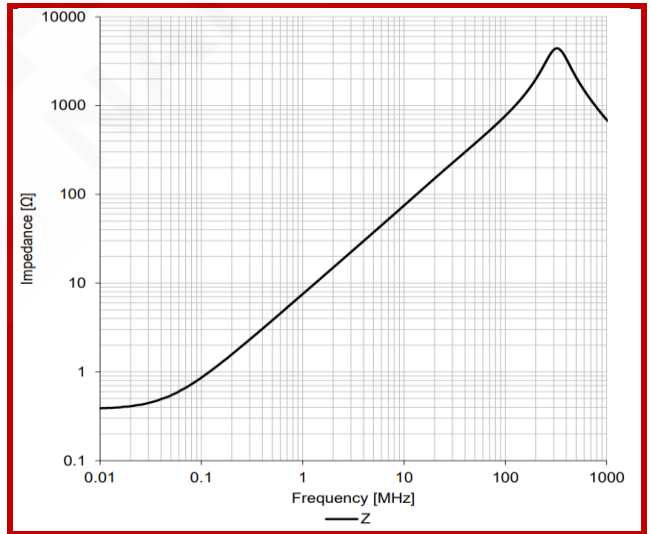
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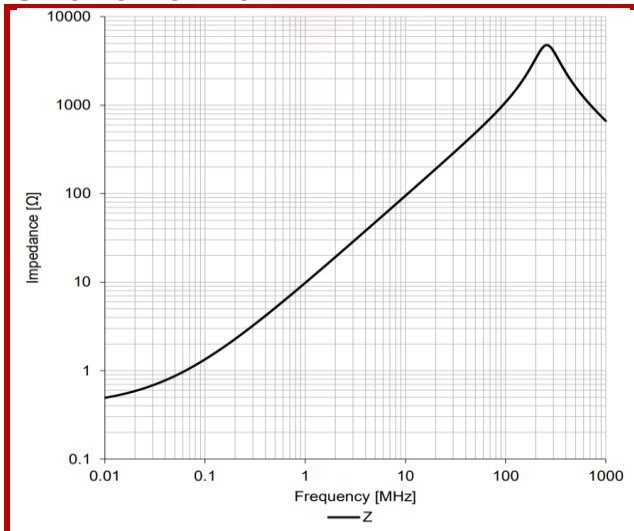
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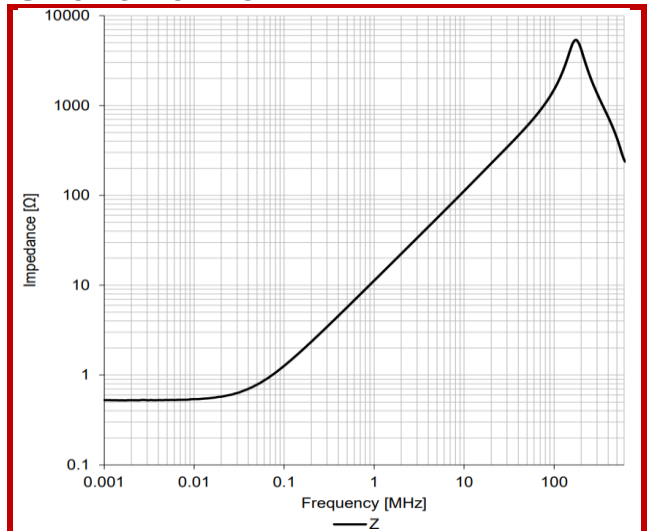
#### UPI01-3225-1R2K



#### UPI01-3225-1R5K



#### UPI01-3225-1R8K

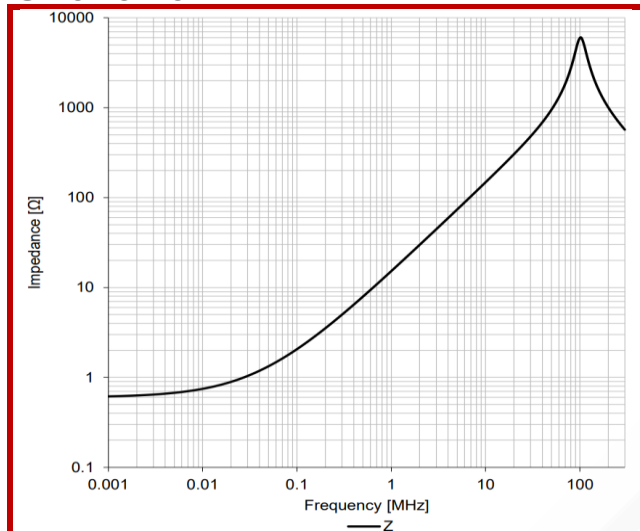




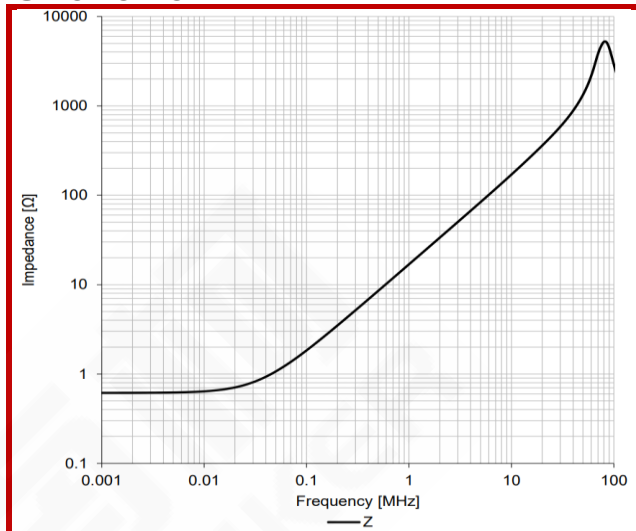
### 典型阻抗特性

Typical Impedance Characteristics

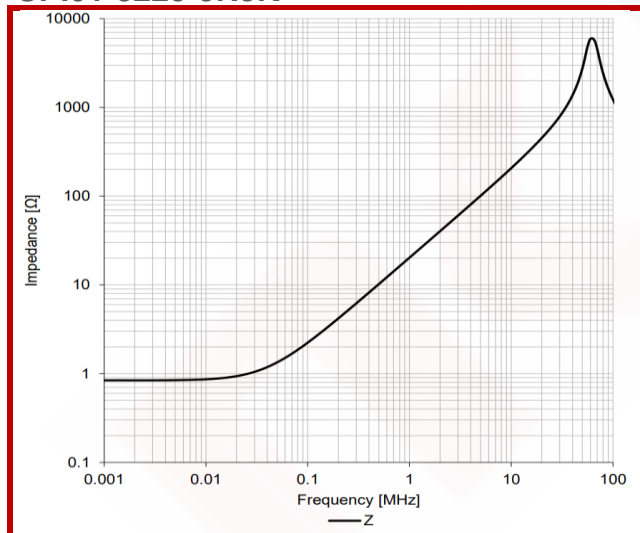
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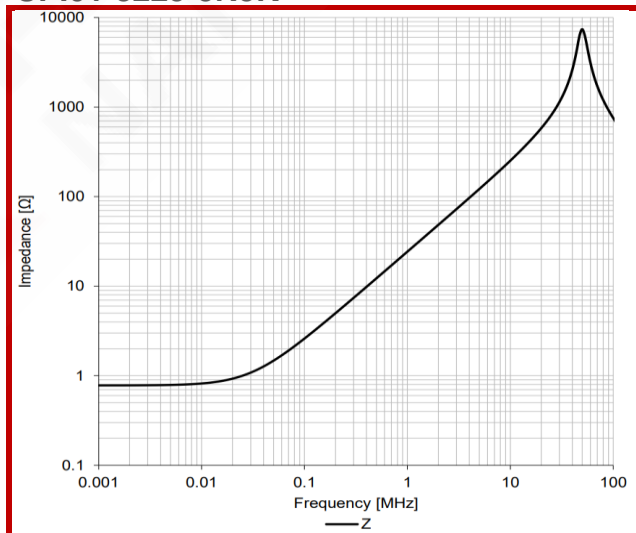
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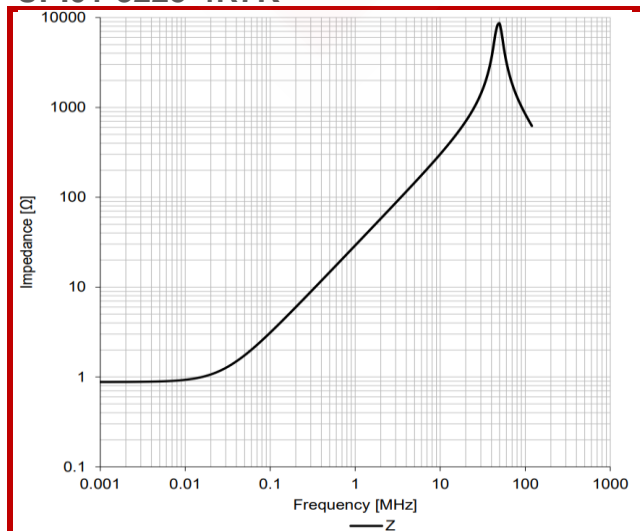
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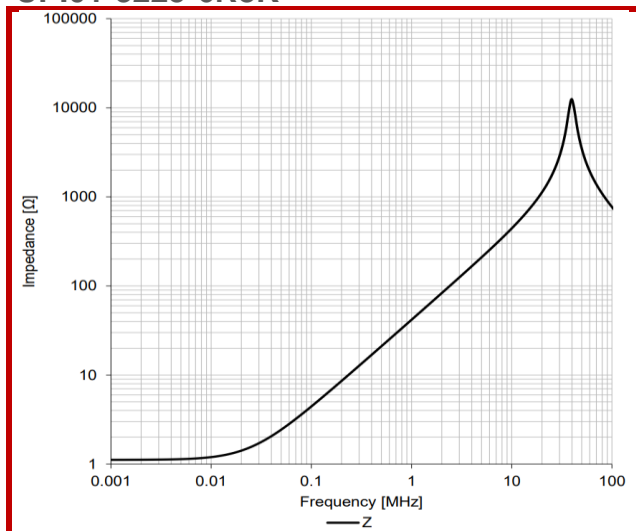
#### UPI01-3225-3R3K



#### UPI01-3225-4R7K



#### UPI01-3225-6R8K

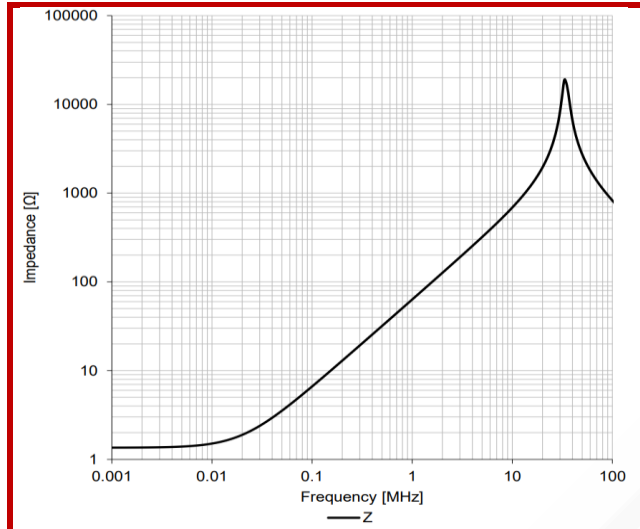




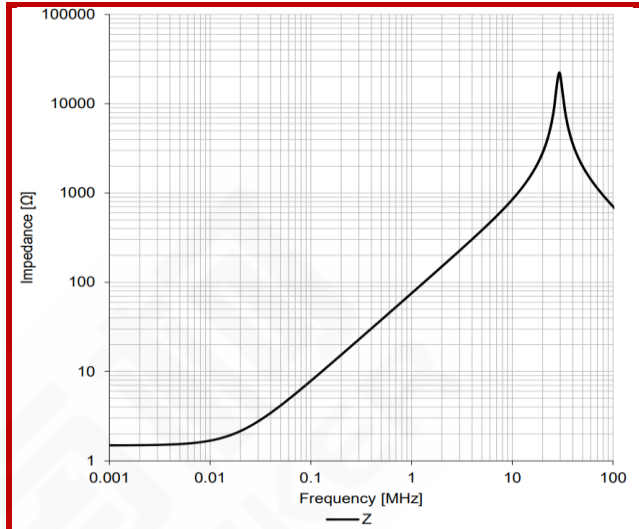
### 典型阻抗特性

Typical Impedance Characteristics

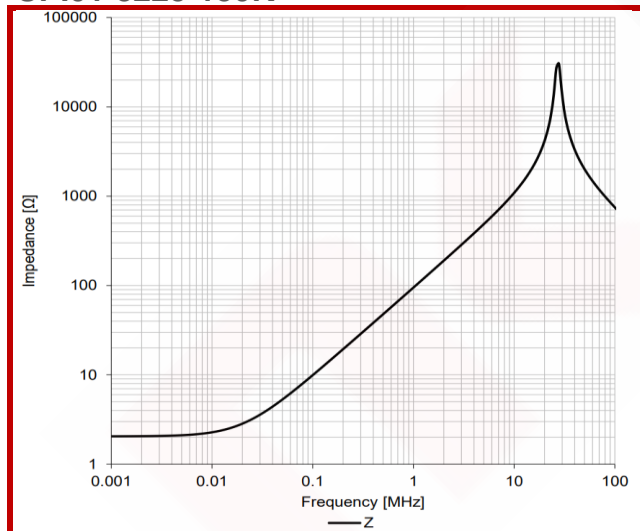
#### UPI01-3225-100K



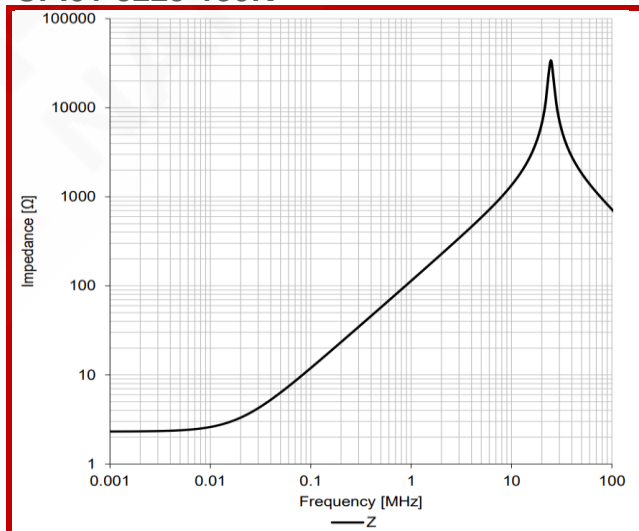
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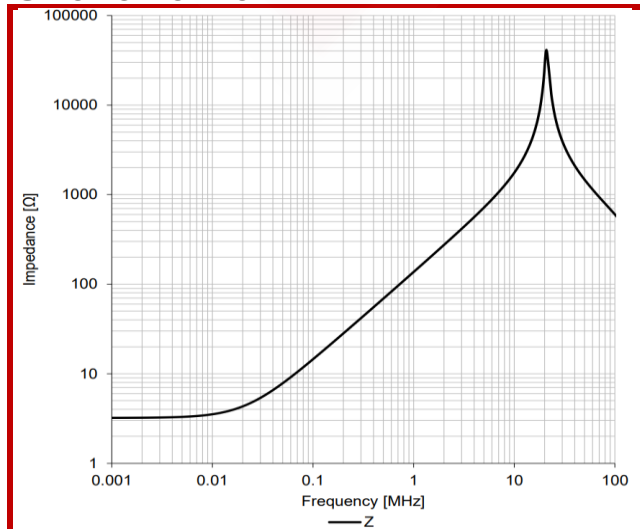
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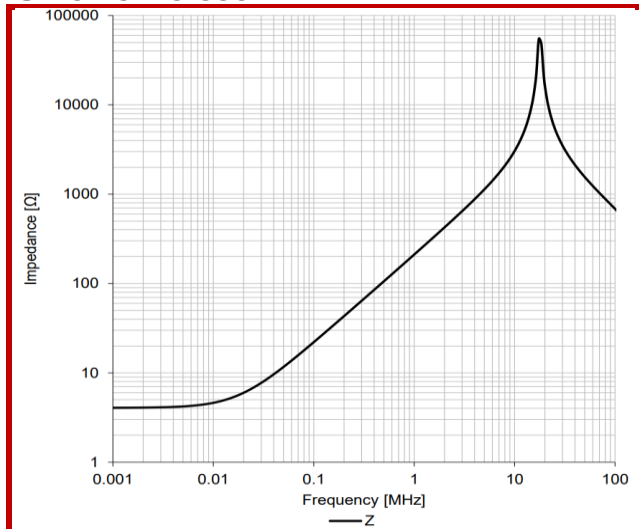
#### UPI01-3225-180K



#### UPI01-3225-220K



#### UPI01-3225-330K

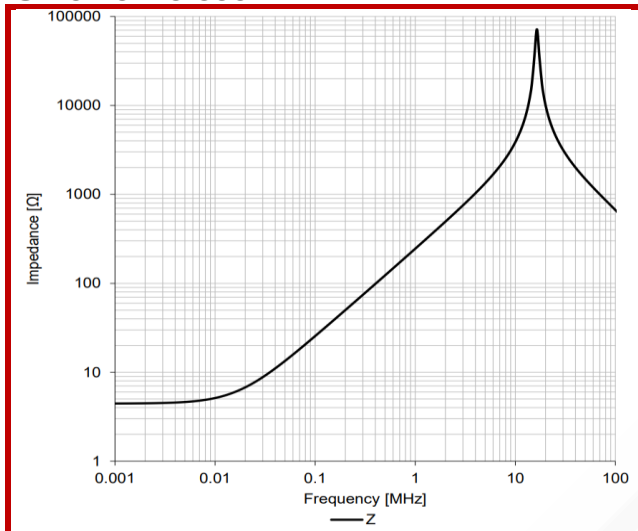




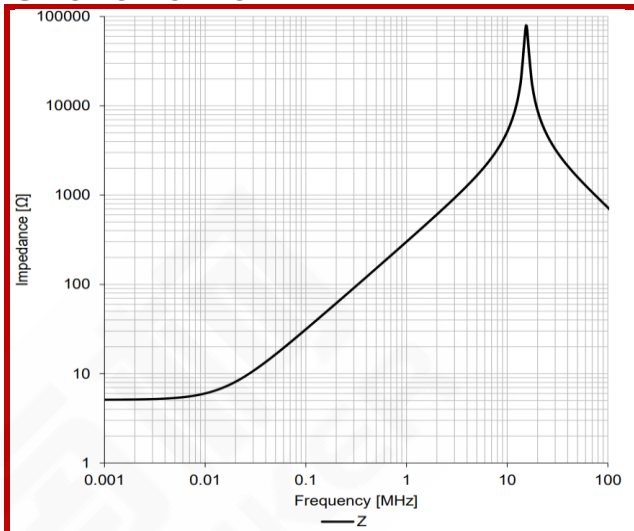
### 典型阻抗特性

Typical Impedance Characteristics

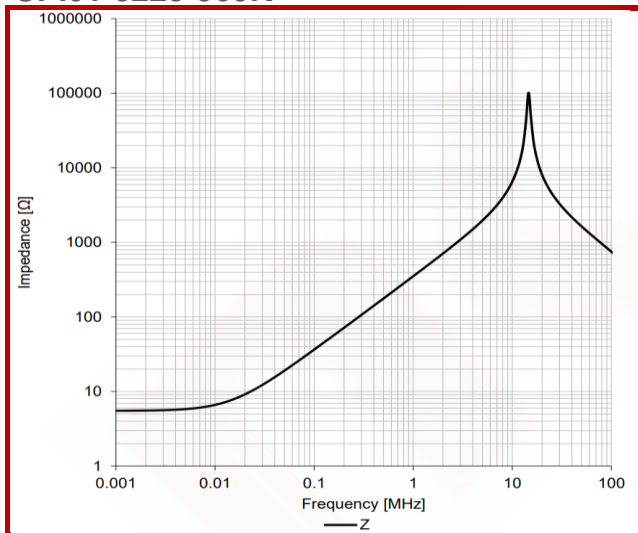
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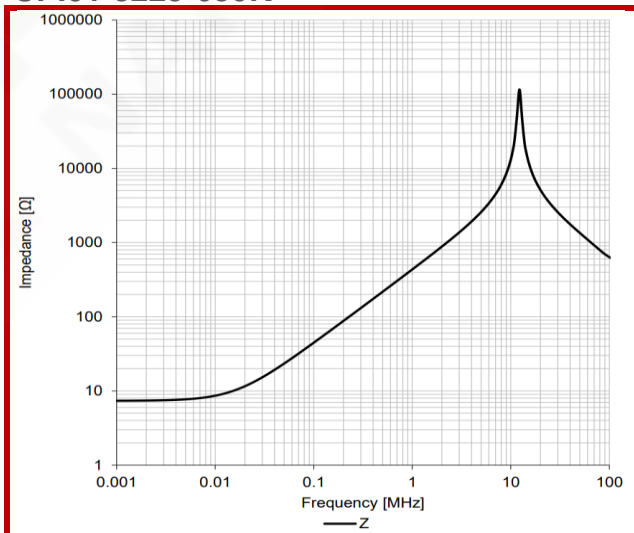
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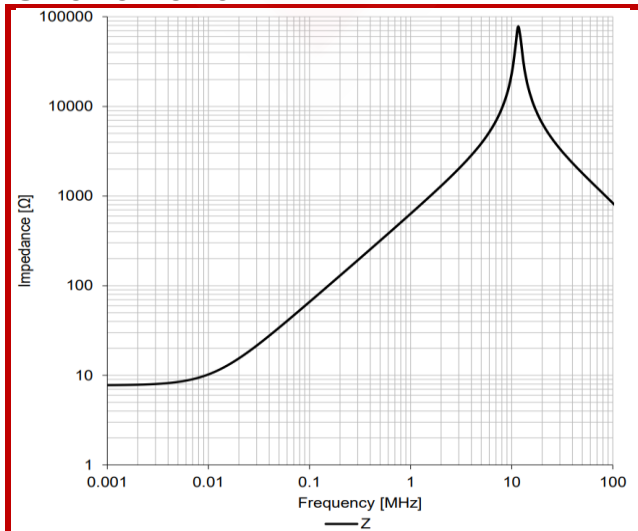
#### UPI01-3225-560K



#### UPI01-3225-680K



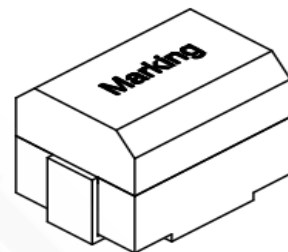
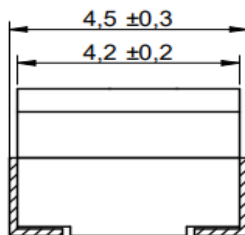
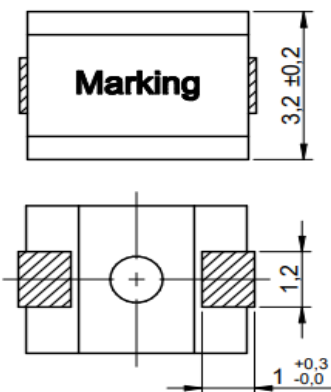
#### UPI01-3225-101K





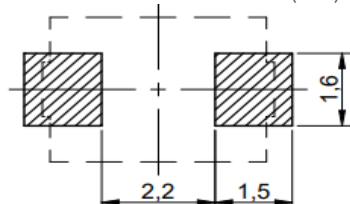
### 尺寸

Dimension (mm)



### 焊盘推荐

Land Pattern Recommended (mm)



### 示意图

Schematics



### 电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>r</sub> max 20°C (mA)	直流电阻 DC Resistance DCR <sub>max</sub> (Ω)	Q 值 Q Factor 25.2MHz min.	卷盘数量 Taping Reel Qty. pcs
UPI01-4532-R10K	0.10 ±10%	450	0.44	28.00	500
UPI01-4532-R33K	0.33 ±10%	450	0.40	30.00	500
UPI01-4532-R39K	0.39 ±10%	450	0.45	30.00	500
UPI01-4532-R68K	0.68 ±10%	450	0.60	30.00	500
UPI01-4532-R82K	0.82 ±10%	450	0.67	30.00	500
UPI01-4532-1R0K	1.00 ±10%	450	0.50	50.00	500
UPI01-4532-1R2K	1.20 ±10%	430	0.55	50.00	500
UPI01-4532-1R5K	1.50 ±10%	410	0.60	50.00	500
UPI01-4532-1R8K	1.80 ±10%	390	0.65	50.00	500
UPI01-4532-2R2K	2.20 ±10%	380	0.70	50.00	500
UPI01-4532-3R3K	3.30 ±10%	355	0.80	50.00	500
UPI01-4532-3R9K	3.90 ±10%	330	0.90	50.00	500

### 测试状态

Test Condition

- ☆ 电感测试条件为 25.2 MHz  
Inductance measure condition at 25.2 kHz
- ☆ 工作温度: -40°C ~ +105°C  
Operating Temperature: -40°C ~ +105°C

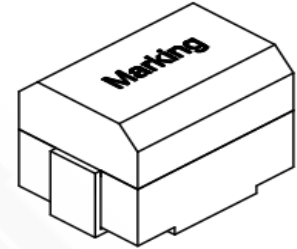
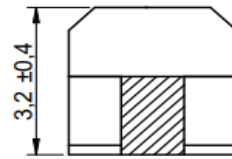
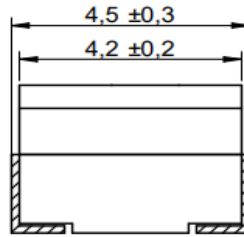
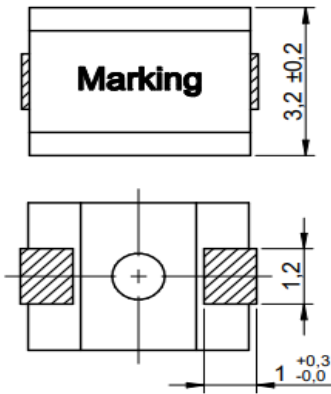
# UPI01 SERIES

Unshielded Power Inductor (Wire Wound)



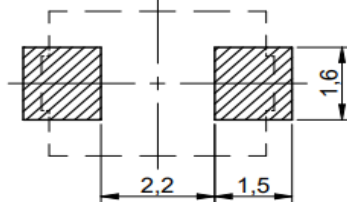
## 尺寸

Dimension (mm)



## 焊盘推荐

Land Pattern Recommended (mm)



## 示意图

Schematics



## 电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>R</sub> max 20°C (mA)	直流电阻 DC Resistance DCR <sub>max</sub> (Ω)	Q 值 Q Factor 25.2MHz min.	卷盘数量 Taping Reel Qty. pcs
UPI01-4532-4R7K	4.70 ±10%	315	1.00	50.00	500
UPI01-4532-5R6K	5.60 ±10%	300	1.10	50.00	500
UPI01-4532-6R8K	6.80 ±10%	285	1.20	50.00	500
UPI01-4532-8R2K	8.20 ±10%	270	1.40	50.00	500
UPI01-4532-100K	10.00 ±10%	250	1.60	50.00	500
UPI01-4532-150K	15.00 ±10%	200	2.50	50.00	500
UPI01-4532-180K	18.00 ±10%	190	2.80	50.00	500
UPI01-4532-220K	22.00 ±10%	180	3.20	50.00	500
UPI01-4532-330K	33.00 ±10%	160	4.00	50.00	500
UPI01-4532-470K	47.00 ±10%	140	5.00	50.00	500
UPI01-4532-560K	56.00 ±10%	135	5.50	50.00	500
UPI01-4532-680K	68.00 ±10%	130	6.00	50.00	500

## 测试状态

Test Condition

- ☆ 电感测试条件为 25.2 MHz  
Inductance measure condition at 25.2 kHz
- ☆ 工作温度: -40°C ~ +105°C  
Operating Temperature: -40°C ~ +105°C

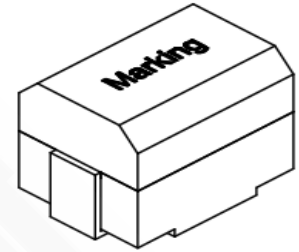
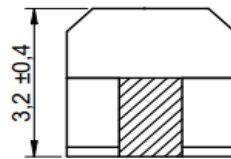
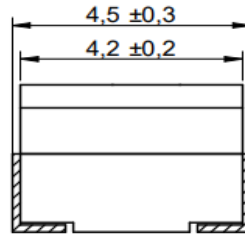
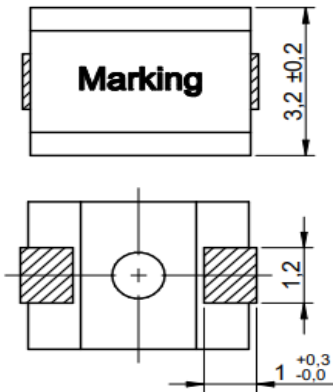
# UPI01 SERIES

Unshielded Power Inductor (Wire Wound)



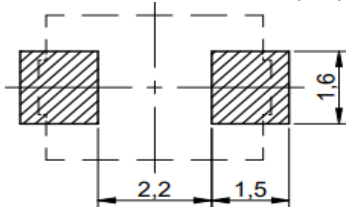
## 尺寸

Dimension (mm)



## 焊盘推荐

Land Pattern Recommended (mm)



## 示意图

Schematics



## 电性特性

Electrical Properties

型号 Part No.	电感 Inductance μH	温升电流 Rated Current I <sub>r</sub> max 20°C (mA)	直流电阻 DC Resistance DCR <sub>max</sub> (Ω)	Q 值 Q Factor 25.2MHz min.	卷盘数量 Taping Reel Qty. pcs
UPI01-4532-101K	100 ±10%	110	8.00	40.00	500
UPI01-4532-151K	150 ±10%	105	9.00	40.00	500
UPI01-4532-181K	180 ±10%	100	9.50	40.00	500
UPI01-4532-221K	220 ±10%	100	10.00	40.00	500
UPI01-4532-331K	330 ±10%	85	14.00	40.00	500
UPI01-4532-391K	390 ±10%	80	18.00	40.00	500
UPI01-4532-471K	470 ±10%	62	26.00	40.00	500
UPI01-4532-561K	560 ±10%	50	30.00	40.00	500
UPI01-4532-681K	680 ±10%	50	30.00	30.00	500
UPI01-4532-821K	820 ±10%	30	45.00	25.00	500
UPI01-4532-102K	1,000 ±10%	30	50.00	20.00	500

## 测试状态

Test Condition

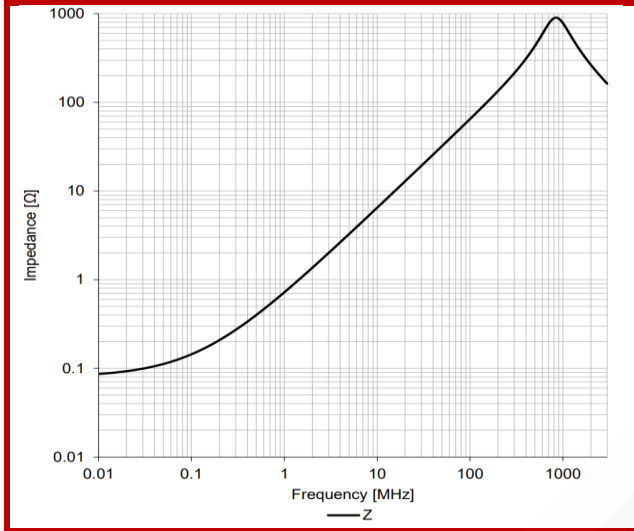
- ☆ 电感测试条件为 25.2 MHz  
Inductance measure condition at 25.2 kHz
- ☆ 工作温度: -40°C ~ +105°C  
Operating Temperature: -40°C ~ +105°C



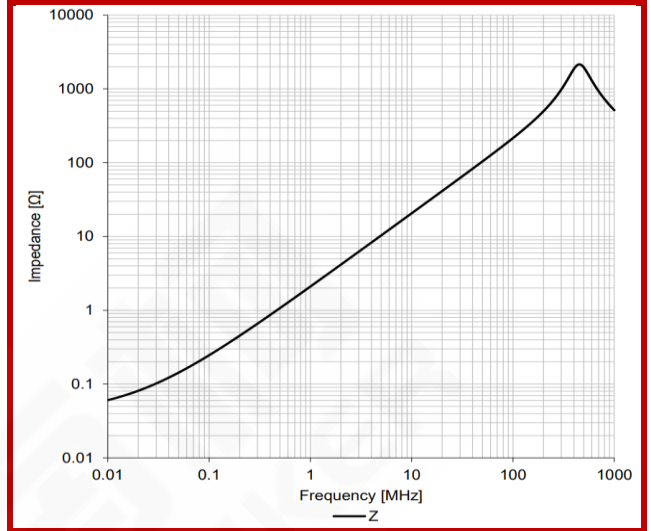
### 典型阻抗特性

Typical Impedance Characteristics

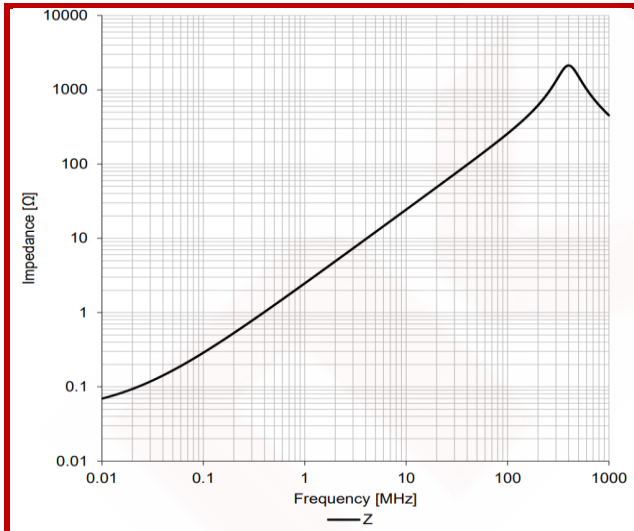
#### UPI01-4532-R10K



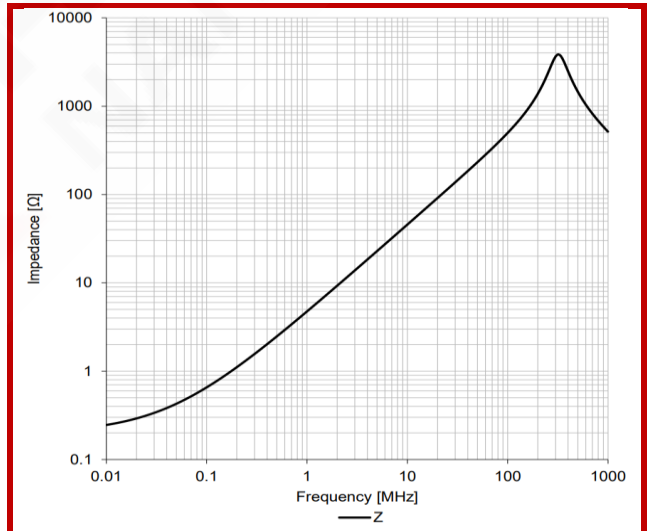
#### UPI01-4532-R33K



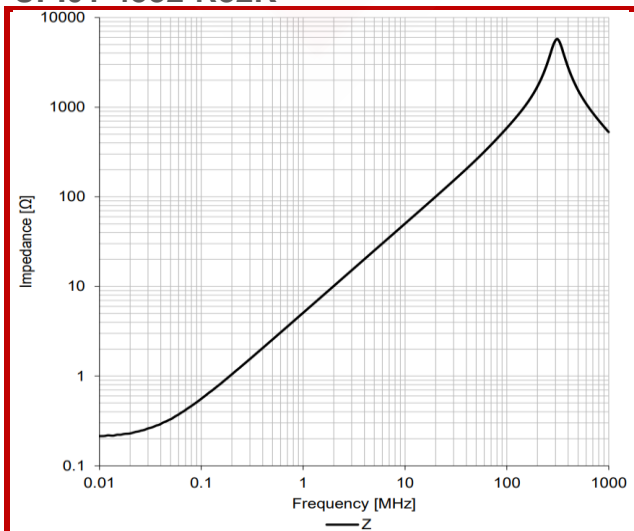
#### UPI01-4532-R39K



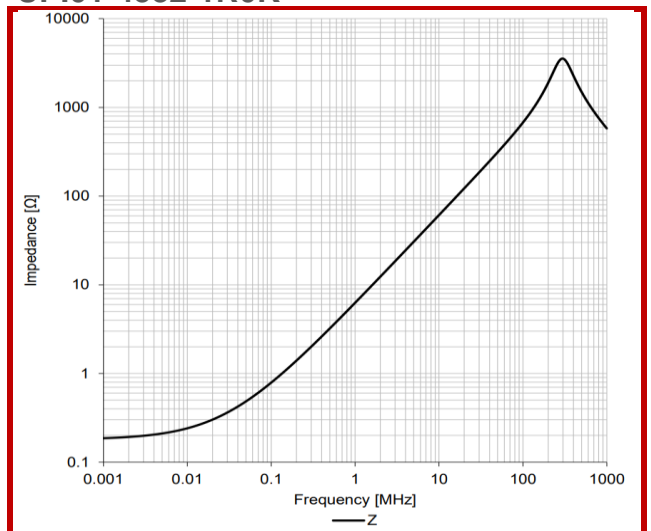
#### UPI01-4532-R68K



#### UPI01-4532-R82K



#### UPI01-4532-1R0K

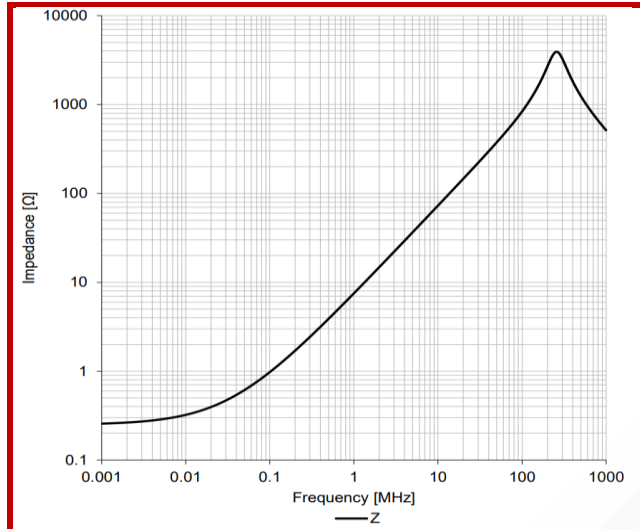




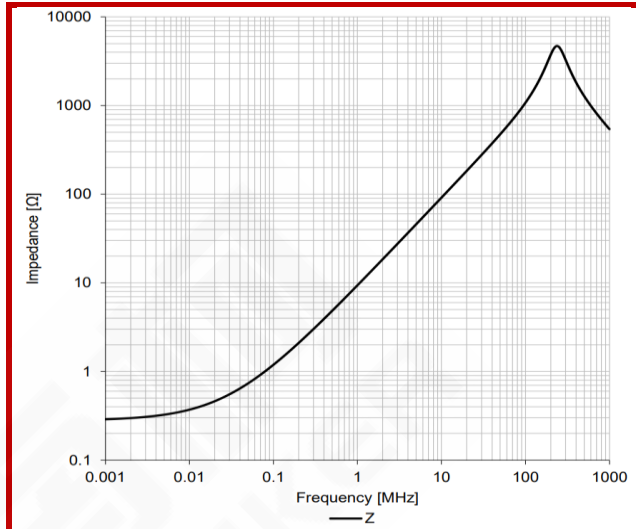
### 典型阻抗特性

Typical Impedance Characteristics

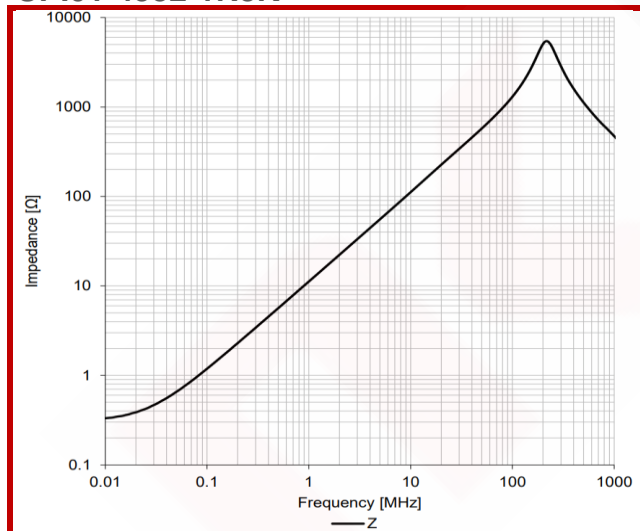
**UPI01-4532-1R2K**



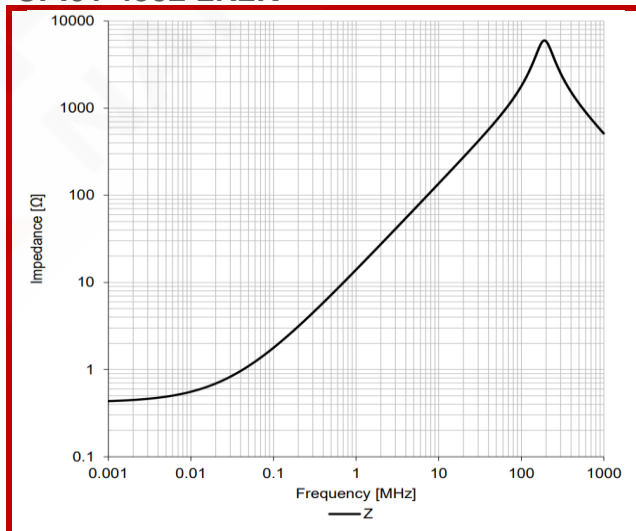
**UPI01-4532-1R5K**



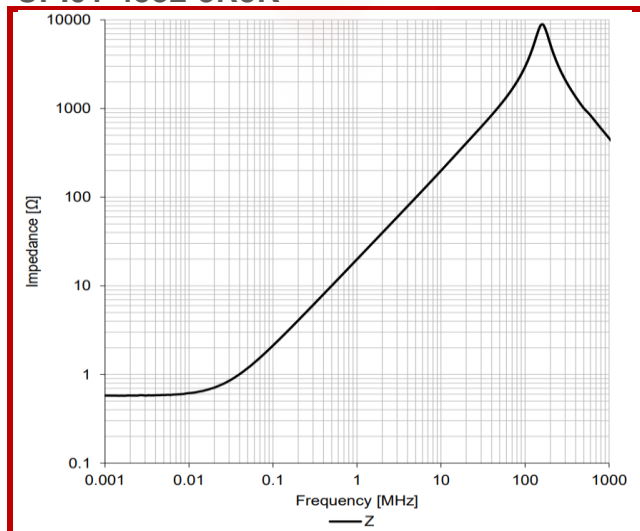
**UPI01-4532-1R8K**



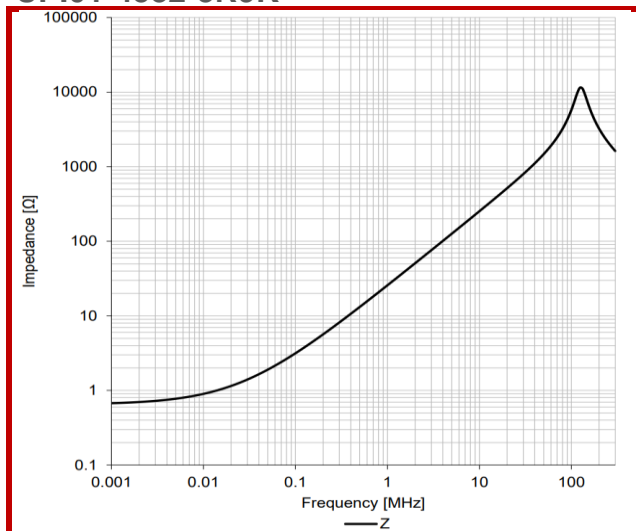
**UPI01-4532-2R2K**



**UPI01-4532-3R3K**



**UPI01-4532-3R9K**

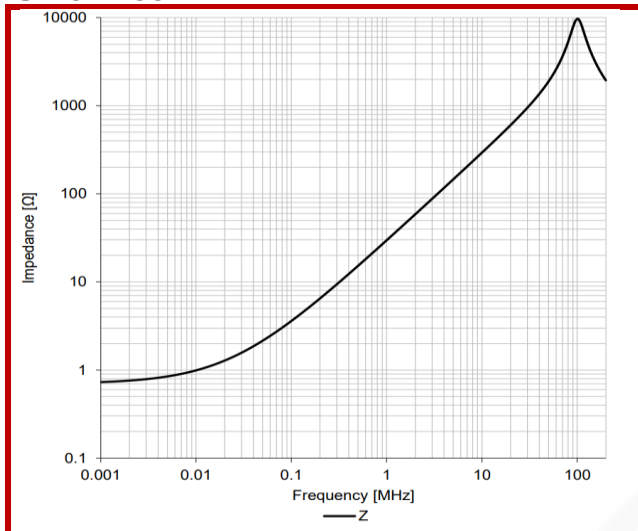




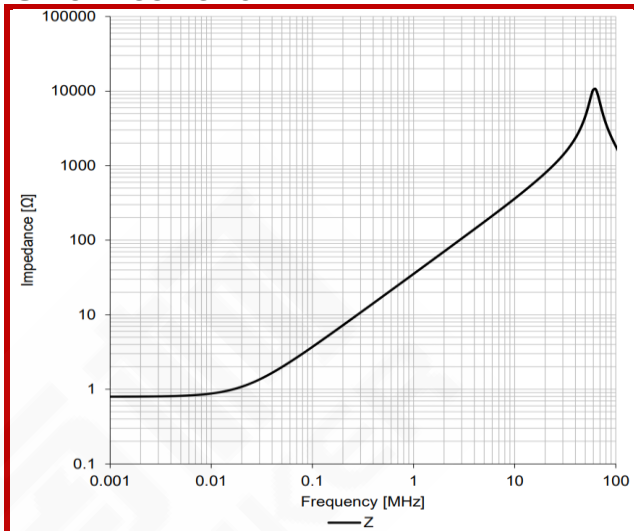
### 典型阻抗特性

Typical Impedance Characteristics

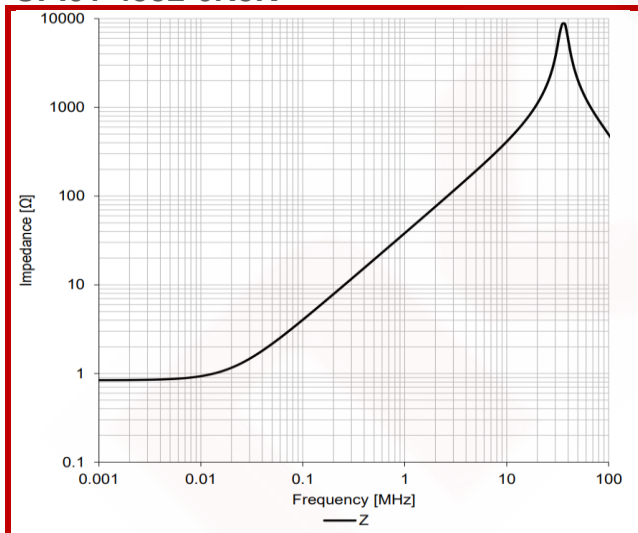
#### UPI01-4532-4R7K



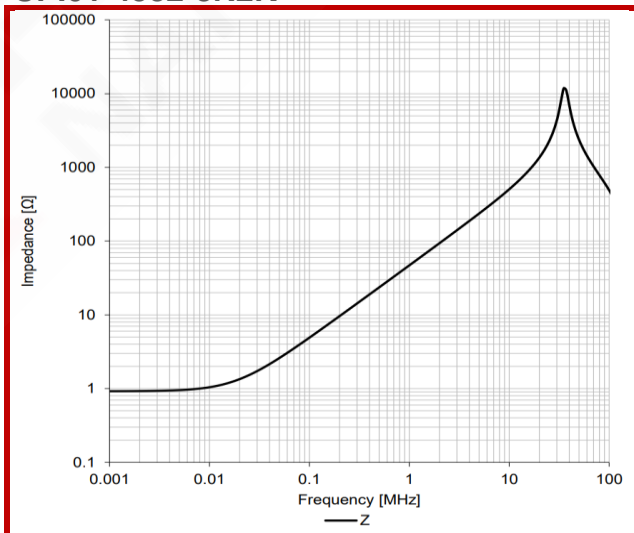
#### UPI01-4532-5R6K



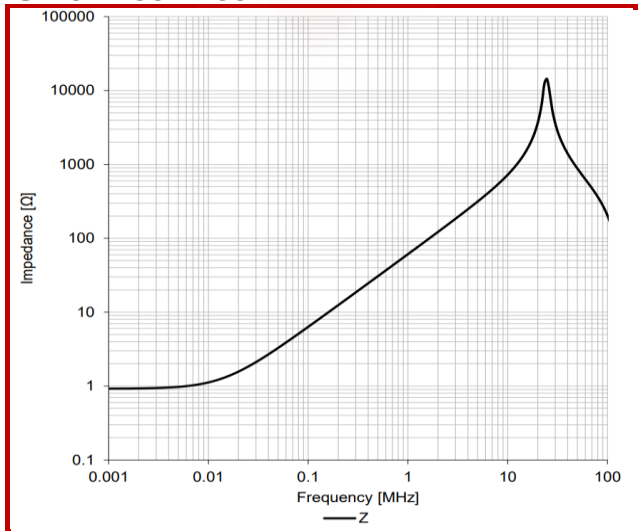
#### UPI01-4532-6R8K



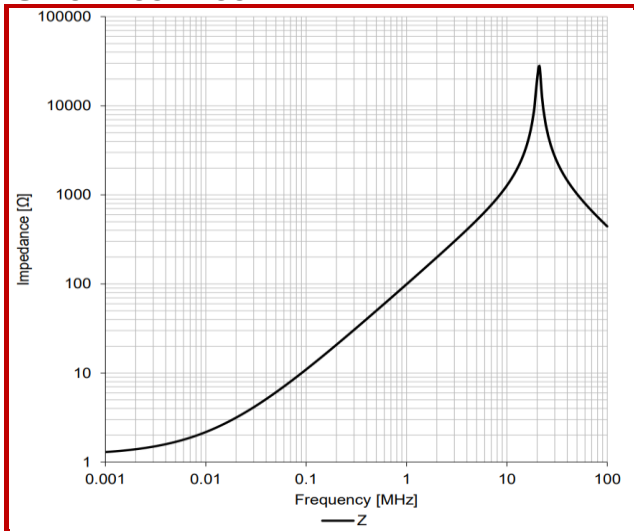
#### UPI01-4532-8R2K



#### UPI01-4532-100K



#### UPI01-4532-150K

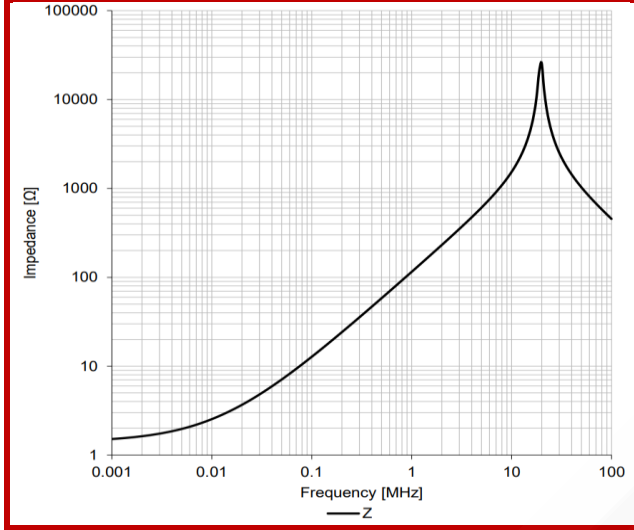




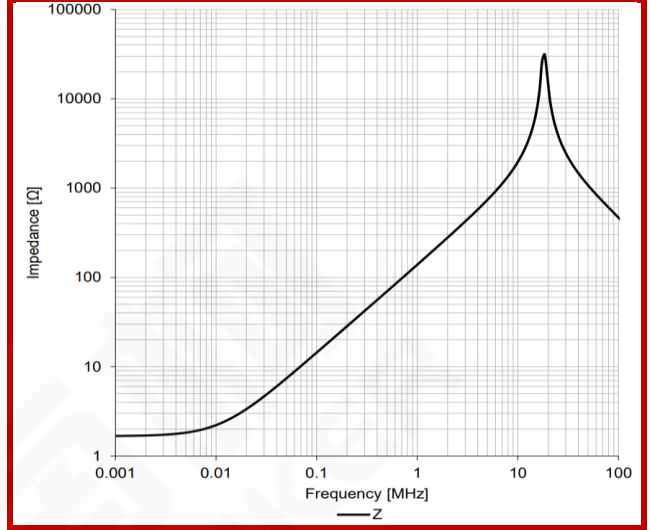
### 典型阻抗特性

Typical Impedance Characteristics

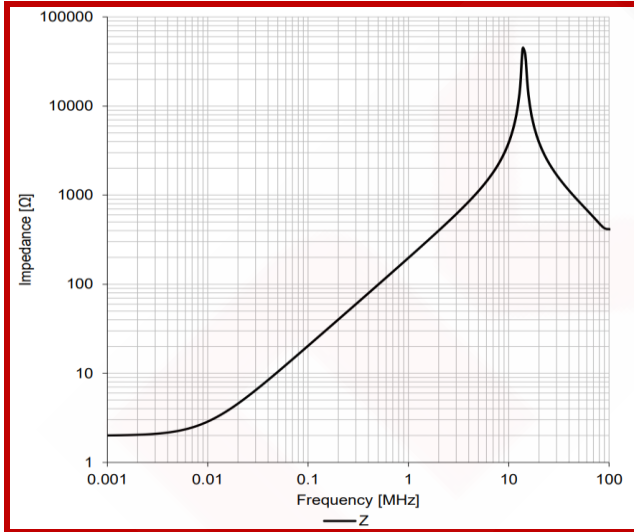
#### UPI01-4532-180K



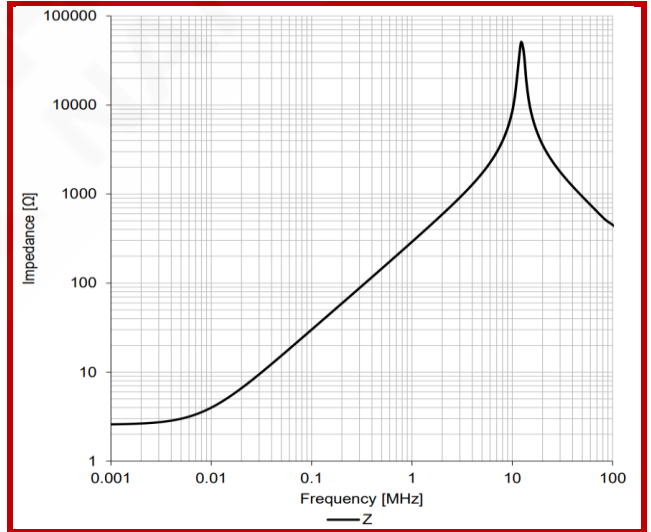
#### UPI01-4532-220K



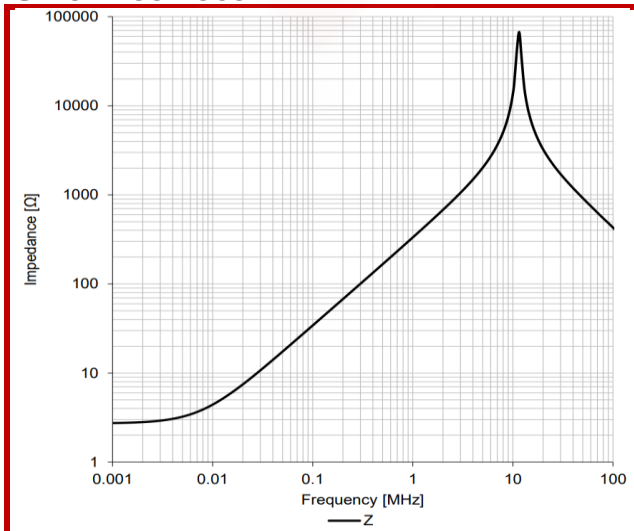
#### UPI01-4532-330K



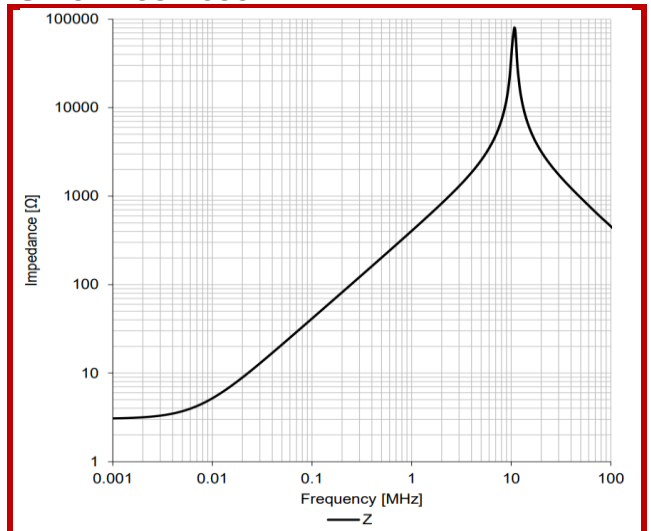
#### UPI01-4532-470K



#### UPI01-4532-560K



#### UPI01-4532-680K

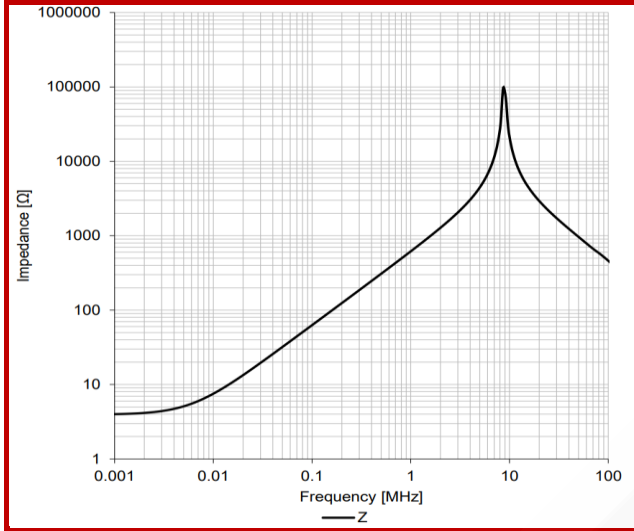




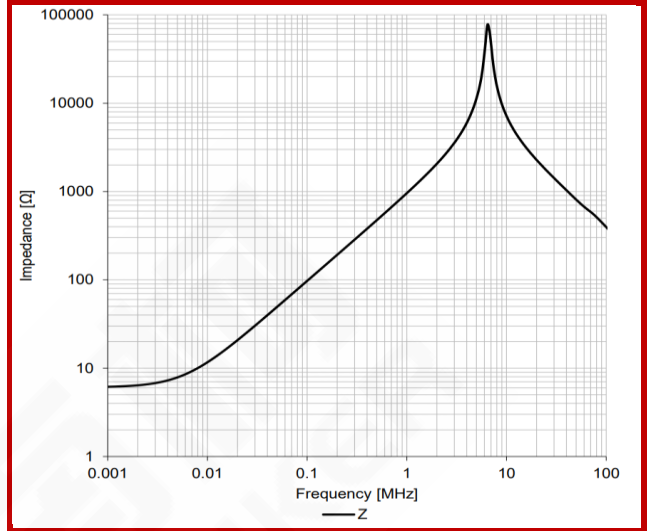
### 典型阻抗特性

Typical Impedance Characteristics

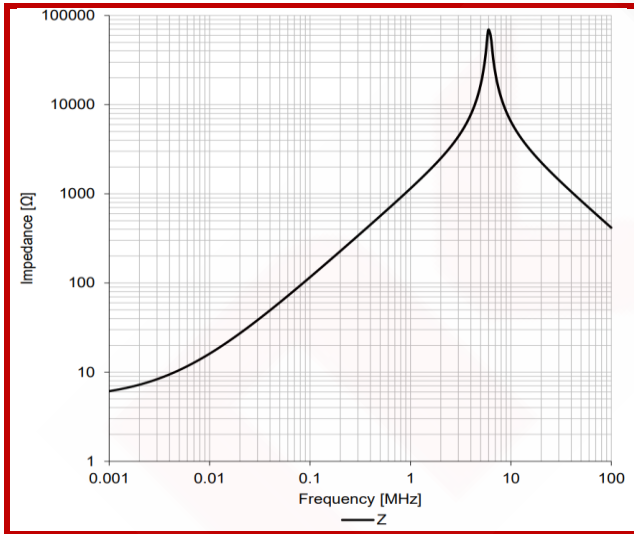
#### UPI01-4532-101K



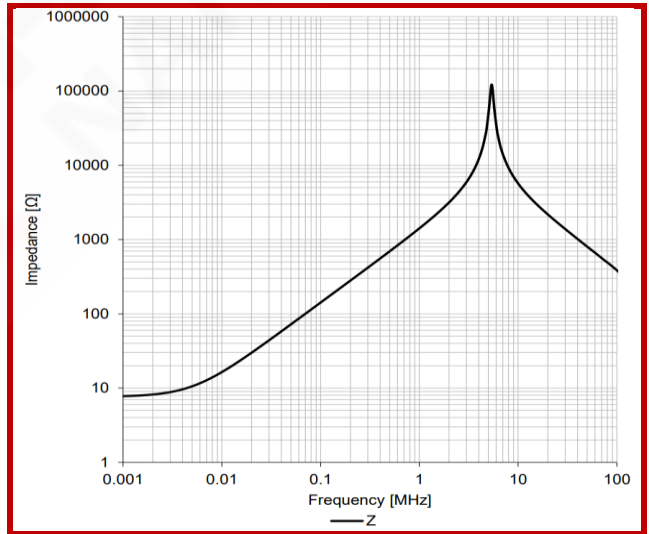
#### UPI01-4532-151K



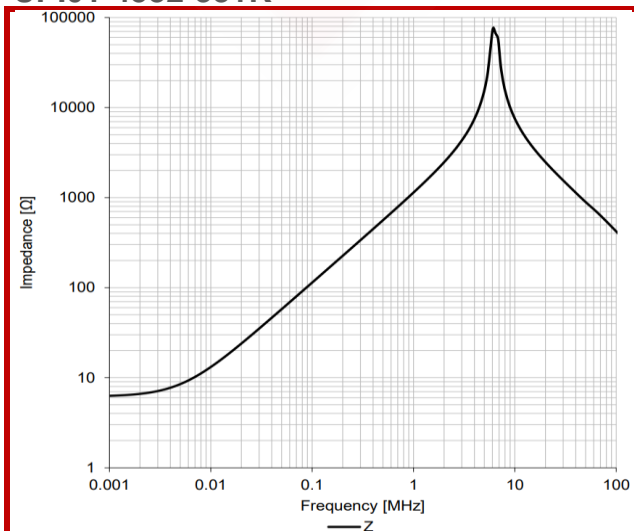
#### UPI01-4532-181K



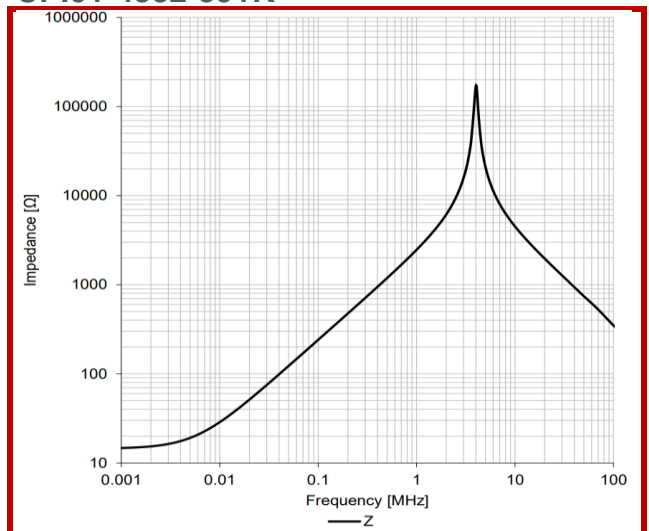
#### UPI01-4532-221K



#### UPI01-4532-331K



#### UPI01-4532-391K

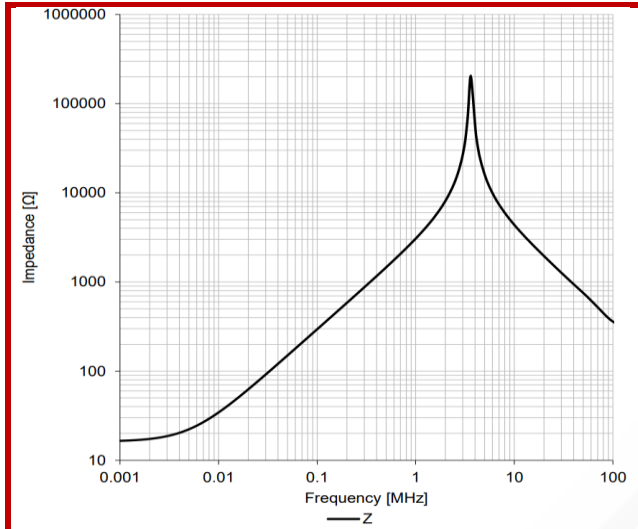




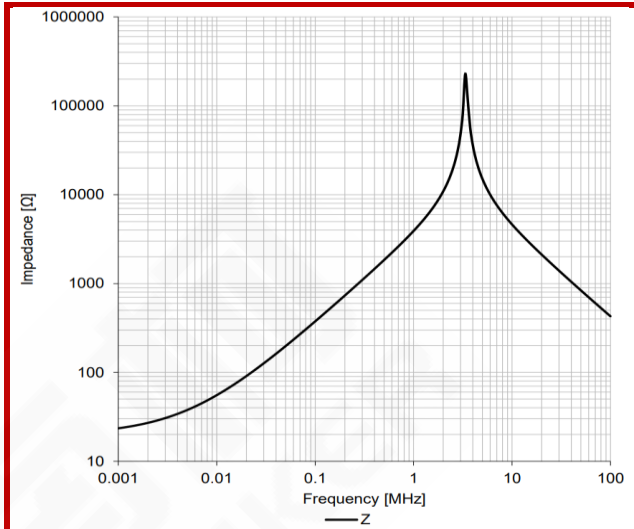
### 典型阻抗特性

Typical Impedance Characteristics

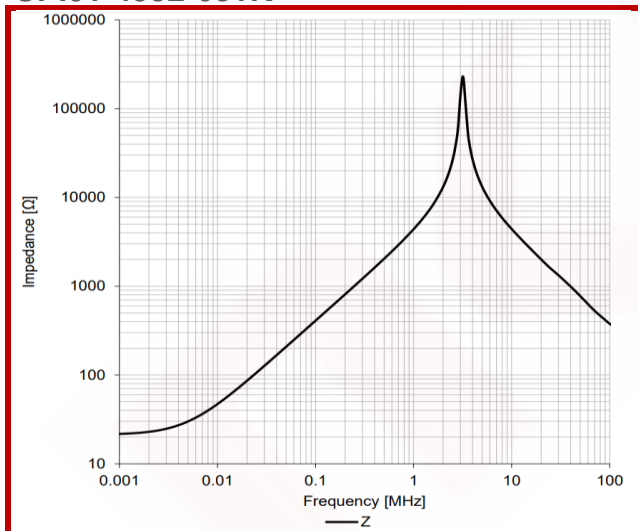
#### UPI01-4532-471K



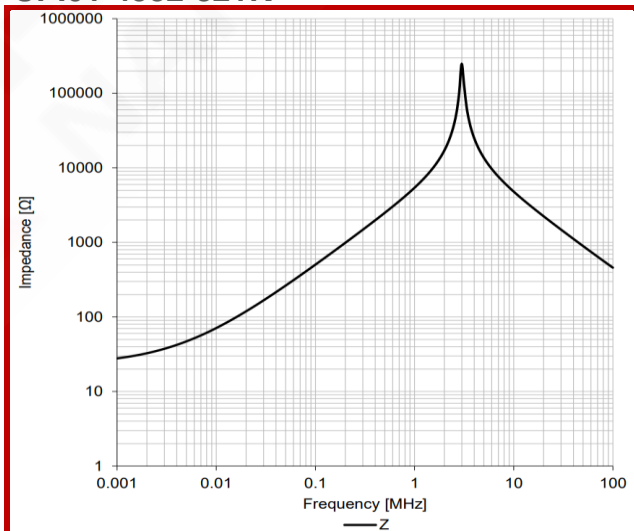
#### UPI01-4532-561K



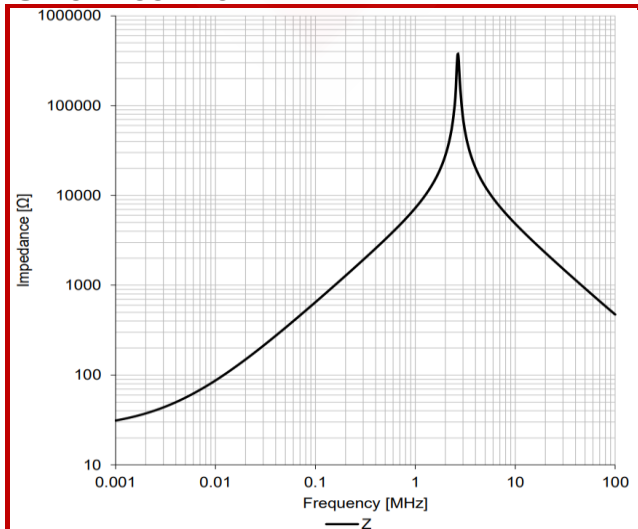
#### UPI01-4532-681K



#### UPI01-4532-821K



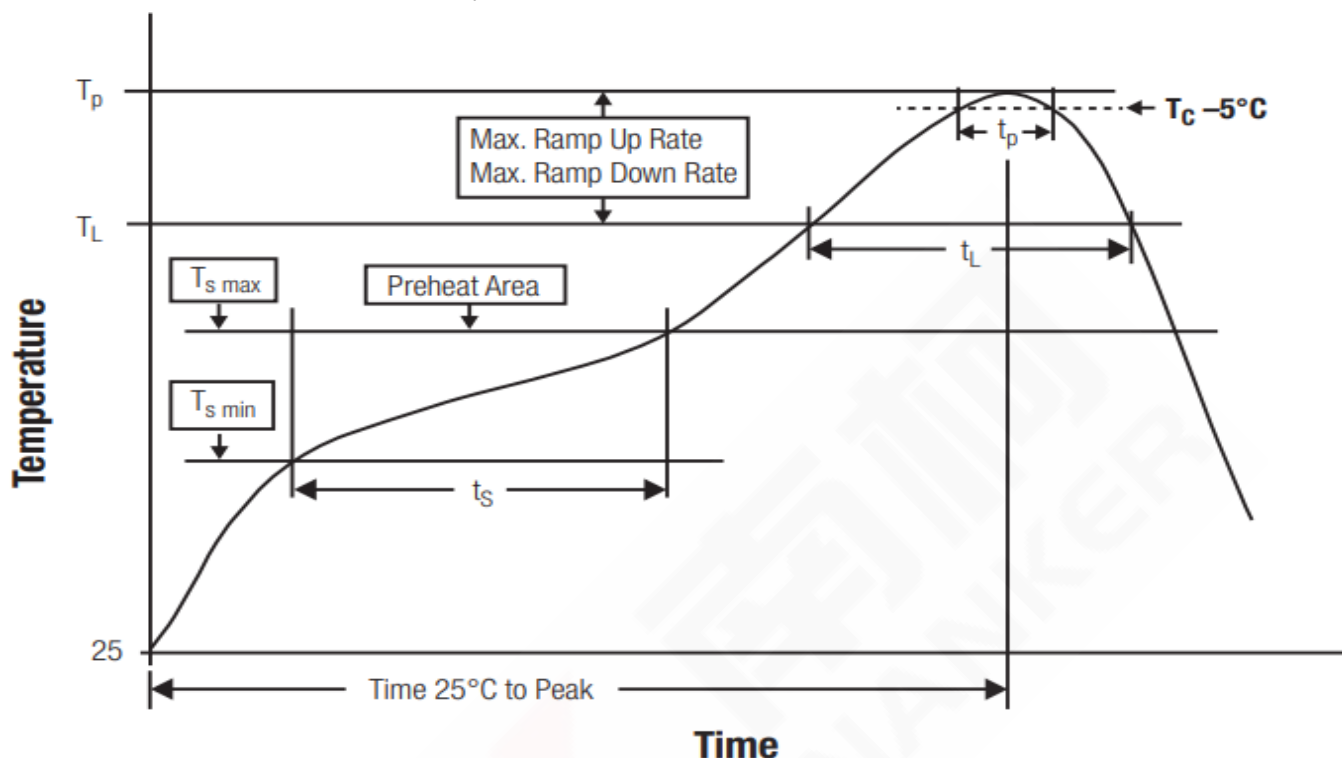
#### UPI01-4532-102K





### 回流焊曲线图

Classification Reflow Profile for SMT Components



### 封装体峰值温度(Tp)分类

Classification Reflow Soldering Profile:

	封装厚度 Package Thickness	封装体积 Package Volume		
		<350 mm <sup>3</sup>	350~2,000 mm <sup>3</sup>	>2,000 mm <sup>3</sup>
无铅装配 PB-Free Assembly	<1.60mm	260°C	260°C	260°C
	1.60~2.50mm	260°C	250°C	245°C
	>2.50mm	260°C	245°C	245°C

- ◆ 回流焊参照标准 IPC/JEDEC J-STD-020D。  
Reflow is refer to standard IPC/JEDEC J-STD-020D.