

有关本公司产品的注意事项

请务必在使用本公司产品目录之前阅读。

注意事项

■ 本产品目录中记载的内容是至2013年10月的内容。本产品目录记载的内容由于产品的改良等原因发生变更时，恕不另行通知。在您订购我司产品之前请确认最新的产品信息。

当您计划在本产品目录记载内容，或是《交货规格书》的规定范围以外使用我司产品时，由于使用我司产品引起的该应用设备的瑕疵我司将不承担任何责任。

■ 有关详细的产品规格我们准备有《交货规格书》，请向我司咨询相关事宜。

■ 在您使用我司产品时，请务必进行应用设备实装状态以及应用产品实际使用环境下的测评。

■ 本产品目录中记载的电子元器件，电路产品等产品适用于一般电子设备。

『AV设备，OA设备，家电及办公设备，信息/通讯设备（手机，电脑等）』

当您计划把本产品目录中记载的产品使用于可能会危及第三方生命安全的应用设备时，请务必提前与我公司取得联系，针对产品信息加以确认。

【运输用设备（火车控制设备，船舶控制设备等），交通用信号设备，防灾设备，医疗用设备，公共性高的信息通信设备等（电话程控交换机，电话，无线电，电视信号等基地局）】

另外，请不要在要求高度安全性，可靠性的应用设备上使用本产品目录中记载的产品。【航天设备，航空设备，核控制设备，用于海底的设备，军事设备等】

同时，应用于安全性，可靠性要求较高的一般电子设备/电路时，请充分进行安全性测评，必要时请在设计过程中追加保护电路。

■ 本产品目录中所记载的内容适用于通过我司营业所，销售子公司，销售代理店（即正规销售渠道）购买的我司产品。通过其他渠道购买的我司产品不在适用范围之内。

■ 由于使用本产品目录记载的产品引起的有关第三方知识产权的冲突，我司概不负责。本产品目录不代表相关权利的实施许诺。

■ 有关出口的注意事项

本产品目录中记载的产品中，部分产品在出口时会被归为“外汇及外贸管理法，美国出口管理法规”的管制货物，请及时实施相关手续，依据相关法律法规进行出口。需确认时，可向我司咨询。

铁氧体磁芯



特点

- 使用高损耗铁氧体材料
- 安装简单，抑制效果好
- 产品种类多样，用途广泛

用途

- 用于各种数码设备的接口电缆和导线等的辐射噪声抑制对策

产品类型

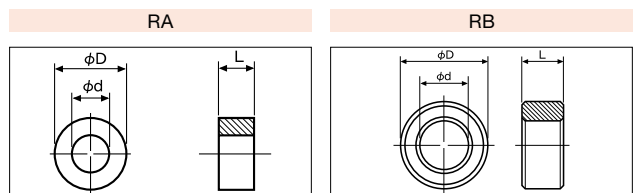
形状	Fig.	形状 mm (inch)	型号标示
RA/RB系列 环形磁芯		 $\phi D: 3.0 \sim 40.0$ (0.118~1.57) $\phi d: 1.0 \sim 27.0$ (0.039~1.06) $L: 2.0 \sim 28.0$ (0.079~1.10)	(例) BP53 RB 120 070 060 M 辅助标记 长度(L) 内径(ϕd) 外径(ϕD) 形状 材质
RD系列 扁平电缆用磁芯		 $A: 3.0 \sim 8.0$ (0.118~0.315) $B: 21.7 \sim 57.0$ (0.854~2.244) $C: 8.0 \sim 12.0$ (0.315~0.472)	(例) BP53 RD 030 310 120 M 辅助标记 厚度(C) 长边(B) 短边(A) 形状 材质
MA系列 平衡-不平衡磁芯		 $A: 1.9 \sim 4.0$ (0.075~0.157) $B: 3.4 \sim 7.0$ (0.134~0.276) $C: 2.0 \sim 5.0$ (0.079~0.197)	(例) BP53 MA 19 034 020 AA 辅助标记 高度(C) 宽度(B) 厚度(A) 形状 材质

环形磁芯 (RA/RB系列)

特点

- 3.0φ~40φ品种丰富

形状



型号 (在□□□□中指明材质标记)	外型尺寸 mm (inch)			适用材质
	ϕD	ϕd	L	
□□□□RA030010020M	$3.0^{+0.15}_{-0.1}$ ($0.118^{+0.006}_{-0.004}$)	1.0 ± 0.1 (0.039 ± 0.004)	$2.0^{+0.15}_{-0.1}$ ($0.079^{+0.006}_{-0.004}$)	BP53·CP22
□□□□RA030010040M	$3.0^{+0.15}_{-0.1}$ ($0.118^{+0.006}_{-0.004}$)	1.0 ± 0.1 (0.039 ± 0.004)	$4.0^{+0.2}_{-0.15}$ ($0.157^{+0.008}_{-0.006}$)	BP53
□□□□RA035010045M	$3.5^{+0.15}_{-0.1}$ ($0.138^{+0.006}_{-0.004}$)	1.0 ± 0.1 (0.039 ± 0.004)	4.5 ± 0.2 (0.177 ± 0.008)	BP53·CP22
□□□□RA035013030M	$3.5^{+0.15}_{-0.1}$ ($0.138^{+0.006}_{-0.004}$)	$1.3^{+0.2}_{-0.1}$ ($0.051^{+0.008}_{-0}$)	3.0 ± 0.15 (0.118 ± 0.006)	
□□□□RA035013050M	$3.5^{+0.15}_{-0.1}$ ($0.138^{+0.006}_{-0.004}$)	$1.3^{+0.2}_{-0.1}$ ($0.051^{+0.008}_{-0}$)	5.0 ± 0.2 (0.197 ± 0.008)	
□□□□RA040020020M	4.0 ± 0.15 (0.157 ± 0.006)	2.0 ± 0.1 (0.079 ± 0.004)	$2.0^{+0.15}_{-0.1}$ ($0.079^{+0.006}_{-0.004}$)	BP53
□□□□RA040020050M	4.0 ± 0.15 (0.157 ± 0.006)	2.0 ± 0.1 (0.079 ± 0.004)	5.0 ± 0.2 (0.197 ± 0.008)	
□□□□RA040020070M	4.0 ± 0.15 (0.157 ± 0.006)	2.0 ± 0.1 (0.079 ± 0.004)	7.0 ± 0.3 (0.276 ± 0.012)	BP53·CP22
□□□□RA045016050M	4.5 ± 0.15 (0.157 ± 0.006)	$1.6^{+0.1}_{-0.1}$ ($0.063^{+0.006}_{-0.004}$)	5.0 ± 0.2 (0.197 ± 0.008)	BP53
□□□□RB052025050M	5.2 ± 0.2 (0.205 ± 0.008)	2.5 ± 0.1 (0.098 ± 0.004)	5.0 ± 0.2 (0.197 ± 0.008)	BP53·CP22
□□□□RB060030020M	6.0 ± 0.2 (0.236 ± 0.008)	$3.0^{+0.1}_{-0.15}$ ($0.118^{+0.004}_{-0.006}$)	$2.0^{+0.15}_{-0.1}$ ($0.079^{+0.006}_{-0.004}$)	
□□□□RB080040030M	$8.0^{+0.15}_{-0.1}$ ($0.315^{+0.006}_{-0.004}$)	4.0 ± 0.15 (0.157 ± 0.006)	3.0 ± 0.15 (0.118 ± 0.006)	

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▶ 本产品目录根据版面大小，仅记载了代表性产品规格，若考虑使用本公司产品时，请确认供货规格书型号明细表中的详细规格。
有关各商品的详细信息(特性图、可靠性信息、使用时的注意事项等)，请参阅本公司网站(<http://www.ty-top.com/>)。

环形磁芯（RA/RB系列）

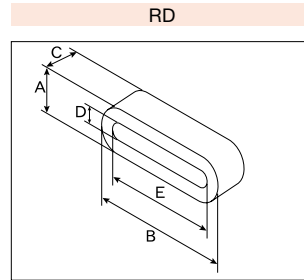
型号 (在□□□□中指明材质标记)	外型尺寸 mm (inch)			适用材质
	ϕD	ϕd	L	
□□□□RA100060100M	10.0±0.3 (0.394±0.012)	6.0±0.2 (0.236±0.008)	10.0±0.5 (0.394±0.020)	BP53
□□□□RA100060140M	10.0±0.3 (0.394±0.012)	6.0 ^{+0.2} _{-0.3} (0.236 ^{+0.008} _{-0.012})	14.0±0.5 (0.551±0.020)	
□□□□RB120070060M	12.0±0.4 (0.472±0.016)	7.0±0.25 (0.276±0.010)	6.0±0.3 (0.236±0.012)	
□□□□RB120070150M	12.0±0.4 (0.472±0.016)	7.0±0.25 (0.276±0.010)	15.0±0.8 (0.591±0.031)	BP53
□□□□RB120080130M	12.0±0.4 (0.472±0.016)	8.0±0.25 (0.315±0.010)	13.0±0.7 (0.512±0.028)	
□□□□RB140063280M	14.0±0.45 (0.551±0.018)	6.35±0.25 (0.250±0.010)	28.0±1.5 (1.10±0.059)	
□□□□RB140070100M	14.0±0.45 (0.551±0.018)	7.0±0.25 (0.276±0.010)	10.0±0.5 (0.394±0.020)	
□□□□RB160070200M	16.0±0.5 (0.630±0.020)	7.0±0.25 (0.276±0.010)	20.0±1.0 (0.787±0.039)	
□□□□RB160080280M	16.0±0.5 (0.630±0.020)	8.0±0.3 (0.315±0.012)	28.0±1.5 (1.10±0.059)	
□□□□RB160100140M	16.0±0.5 (0.630±0.020)	10.0±0.3 (0.394±0.012)	14.0±0.7 (0.551±0.028)	
□□□□RB190120080M	19.0±0.6 (0.748±0.024)	12.0±0.4 (0.472±0.016)	8.0±0.4 (0.315±0.016)	BP53·CP22
□□□□RB200100100M	20.0±0.6 (0.787±0.024)	10.0±0.3 (0.394±0.012)	10.0±0.5 (0.394±0.020)	BP53
□□□□RB250150120M	25.0±0.8 (0.984±0.031)	15.0±0.5 (0.591±0.020)	12.0±0.6 (0.472±0.024)	
□□□□RB260130280M	26.0±0.8 (1.02±0.031)	13.0±0.4 (0.512±0.016)	28.0±1.5 (1.10±0.059)	
□□□□RB280160130M	28.0±0.9 (1.10±0.035)	16.0±0.5 (0.630±0.020)	13.0±0.7 (0.512±0.028)	
□□□□RB310190100M	31.0±1.1 (1.22±0.043)	19.0±0.6 (0.748±0.024)	10.0±0.5 (0.394±0.020)	
□□□□RB400270150M	40.0±1.2 (1.57±0.047)	27.0±0.9 (1.06±0.035)	15.0±0.8 (0.591±0.031)	BP53

RD形

■ 特点

- 从12芯到32芯，产品种类丰富
- 也备有可用于柔性扁平电缆的磁芯

■ 形状



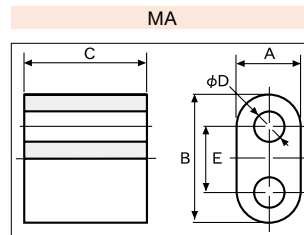
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	A	B	C	D	E	
BP53RD030310120M	3.0 (0.118)	31.0 (1.22)	12.0 (0.472)	0.8 (0.031)	28.0 (1.10)	用于柔性扁平电缆
BP53RD050380120M	5.0 (0.197)	38.0 (1.50)	12.0 (0.472)	0.8 (0.031)	34.0 (1.34)	用于柔性扁平电缆
BP53RD050570120M	5.0 (0.197)	57.0 (2.24)	12.0 (0.472)	0.8 (0.031)	53.0 (2.09)	用于柔性扁平电缆
BP53RD065220080M	6.5 (0.256)	21.7 (0.854)	8.0 (0.315)	1.3 (0.051)	16.5 (0.650)	12
BP53RD065270080M	6.5 (0.256)	27.0 (1.06)	8.0 (0.315)	1.3 (0.051)	21.8 (0.858)	16
BP53RD065330080M	6.5 (0.256)	33.0 (1.30)	8.0 (0.315)	1.3 (0.051)	27.8 (1.09)	20
BP53RD065400120M	6.5 (0.256)	40.0 (1.57)	12.0 (0.472)	1.3 (0.051)	34.8 (1.37)	26
BP53RD080480080M	8.0 (0.315)	48.0 (1.89)	8.0 (0.315)	2.0 (0.079)	42.0 (1.65)	32

平衡-不平衡磁芯（MA系列）

■ 特点

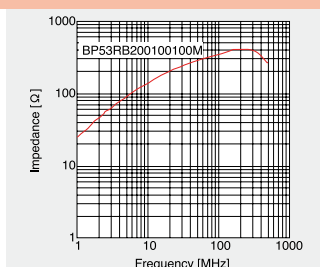
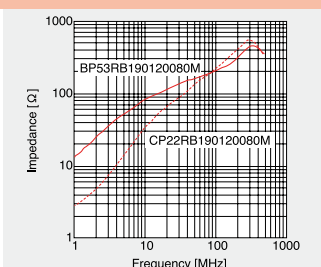
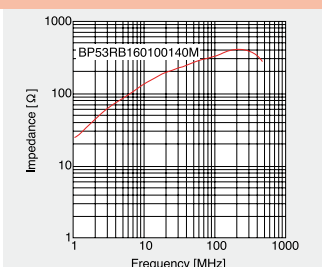
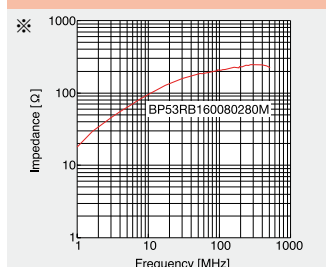
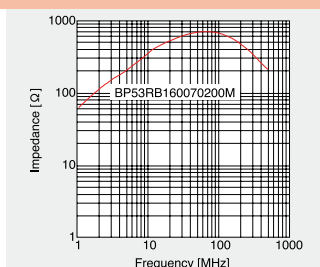
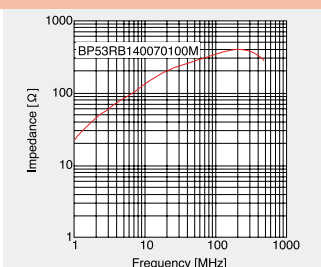
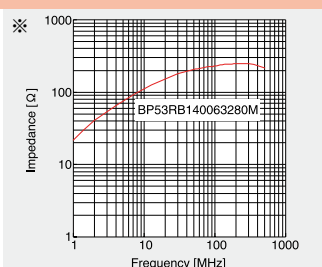
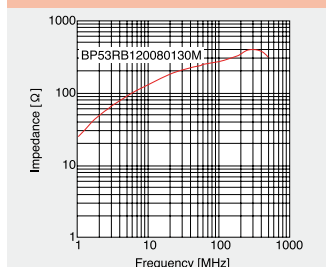
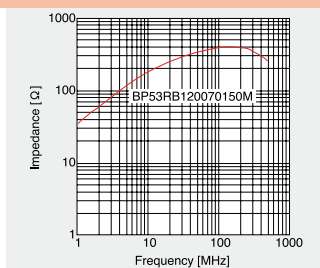
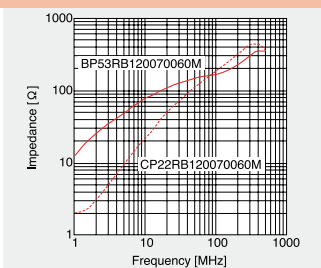
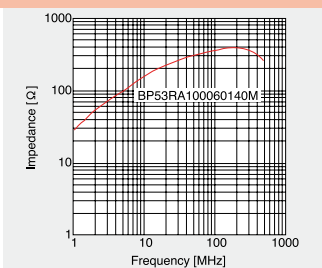
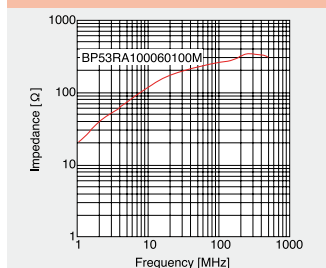
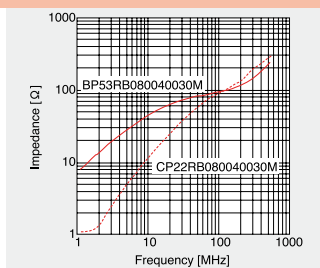
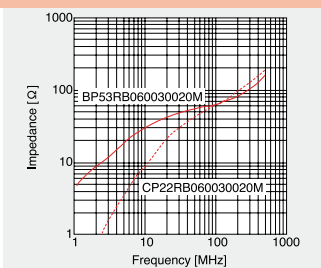
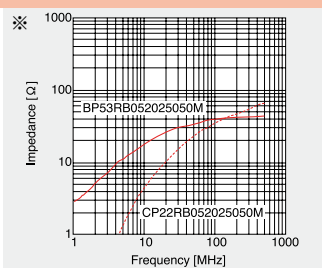
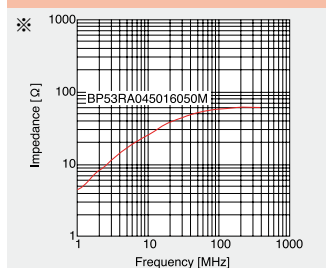
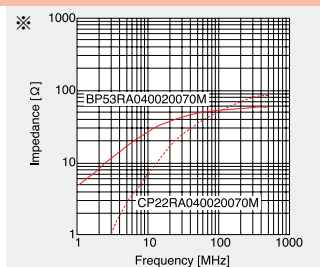
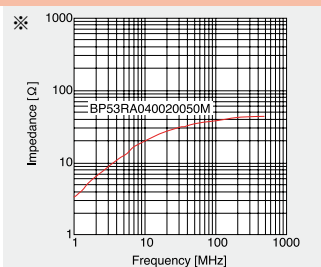
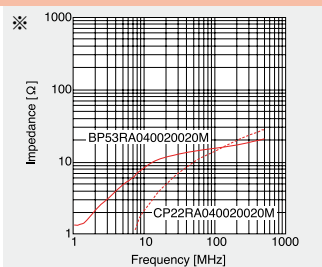
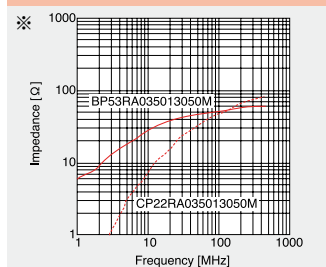
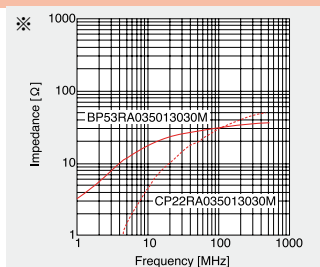
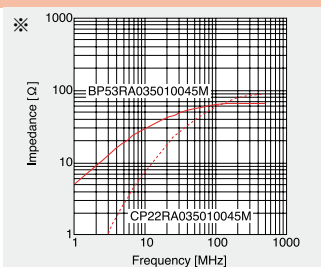
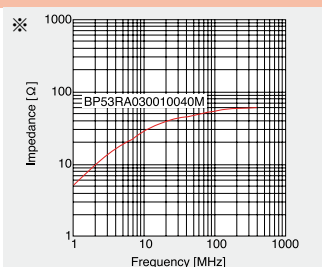
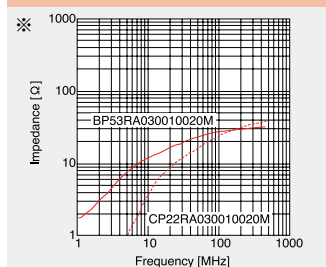
- 小型产品种类齐全

■ 形状



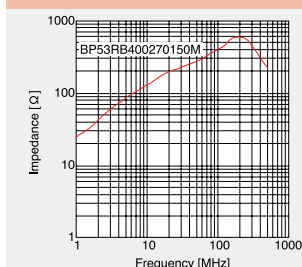
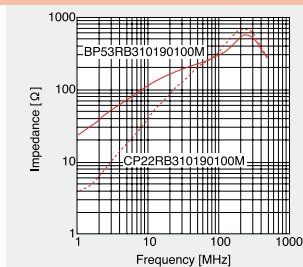
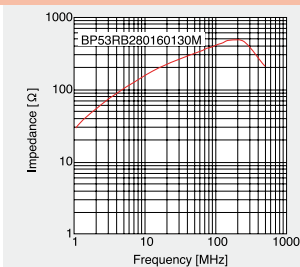
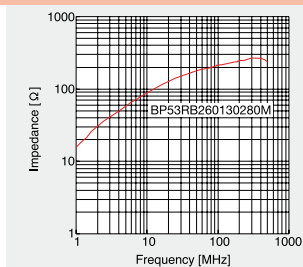
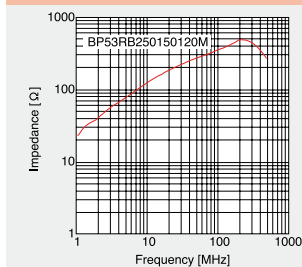
型号	外型尺寸 mm (inch)				
	A	B	C	ϕD	E
BP53 MA19034020AA	1.9±0.2 (0.075±0.008)	3.4±0.3 (0.134±0.012)	2.0±0.15 (0.079±0.006)	0.9±0.1 (0.035±0.004)	1.4 (0.055)
CP22 MA26053020AA	2.6±0.3 (0.102±0.012)	5.3±0.3 (0.209±0.012)	2.0±0.3 (0.079±0.012)	1.4±0.2 (0.055±0.008)	2.5 (0.098)
CP22 MA26053040AA	2.6±0.3 (0.102±0.012)	5.3±0.3 (0.209±0.012)	4.0±0.3 (0.157±0.012)	1.4±0.2 (0.055±0.008)	2.5 (0.098)
BP53 MA30060040BA	3.0±0.3 (0.118±0.012)	6.0±0.3 (0.236±0.012)	4.0±0.3 (0.157±0.012)	1.5±0.2 (0.059±0.008)	3.0 (0.118)
CP22 MA30060050AA	3.0±0.3 (0.118±0.012)	6.0±0.3 (0.236±0.012)	5.0±0.3 (0.197±0.012)	1.0±0.2 (0.039±0.008)	2.5 (0.098)
CP22 MA40070050AA	4.0±0.3 (0.157±0.012)	7.0±0.3 (0.276±0.012)	5.0±0.3 (0.197±0.012)	1.8±0.2 (0.071±0.008)	3.0 (0.118)

● 环形磁芯(RA/RB系列)

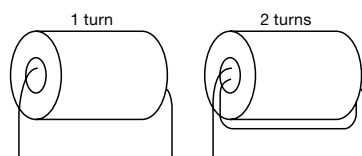


► 本产品目录根据版面大小, 仅记载了代表性产品规格, 若考虑使用本公司产品时, 请确认供货规格书型号明细表中的详细规格。
有关各商品的详细信息(特性图、可靠性信息、使用时的注意事项等), 请参阅本公司网站(<http://www.tv-top.com/>)。

特性图



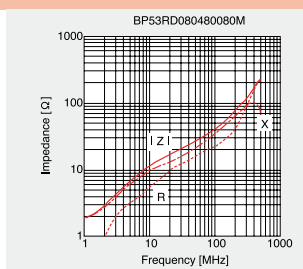
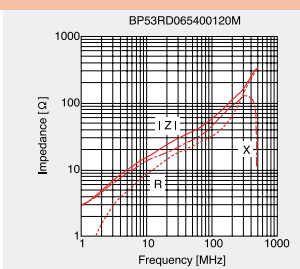
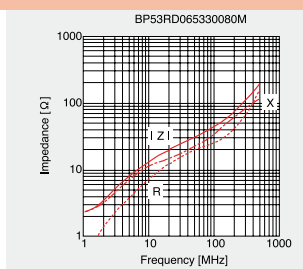
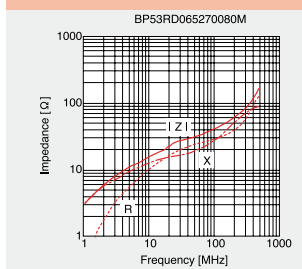
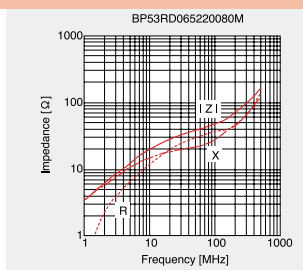
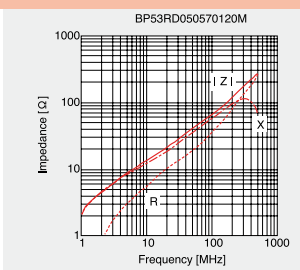
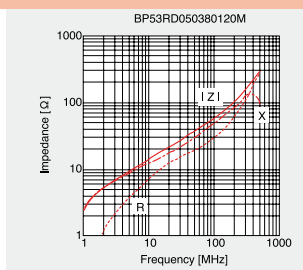
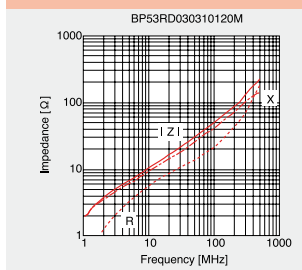
測定方法：



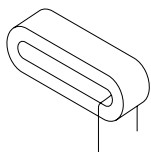
(图表 ※记号)

测试仪器：RF 阻抗分析仪 HP4291A

RD形



測定方法：



测试仪器：RF 阻抗分析仪 HP4291A

Ferrite Cores

RELIABILITY DATA

1. Operating Temperature Range			
Specified Value	RA, RB Series		−25°C to +85°C
	RD Series		
	MA Series		
2. Storage Temperature Range			
Specified Value	RA, RB Series		−40°C to +85°C
	RD Series		
	MA Series		
3. Capacitance			
Specified Value	RA, RB Series		—
	RD Series		
	MA Series		Refer to individual specs.
Test Methods and Remarks	Measurement shall be made at the specified frequency using the specified measuring equipment.		
4. Q			
Specified Value	RA, RB Series		—
	RD Series		
	MA Series		Refer to individual specs.
Test Methods and Remarks	Measurement shall be made at the specified frequency using the specified measuring equipment.		
5. Inductance			
Specified Value	RA, RB Series		—
	RD Series		
	MA Series		Refer to individual specs.
Test Methods and Remarks	Measurement shall be made at the specified frequency using the specified measuring equipment.		
6. Impedance			
Specified Value	RA, RB Series		Within the specified tolerance
	RD Series		
	MA Series		Refer to individual specs.
Test Methods and Remarks	Measuring equipment : HP4291A or its equivalent Measuring frequency : Specified frequency		
7. Thermal shock			
Specified Value	RA, RB Series		Appearance : No abnormality Impedance change : Within ±20%
	RD Series		
	MA Series		—
Test Methods and Remarks			
	Conditions for 1 cycle		
	Step	Temperature (°C)	Duration (min)
	1	−25±3	30±3
	2	Room temperature	Within 3
	3	+85±3	30±3
	4	Room temperature	Within 3
	Number of cycles : 10 cycles		
	Recovery : 3hrs of recovery under the standard condition after the removal from the test chamber.		

► This catalog contains the typical specification only due to the limitation of space. When you consider the purchase of our products, please check our specification. For details of each product (characteristics graph, reliability information, precautions for use, and so on), see our Web site (<http://www.ty-top.com/>) .

8. Damp heat		
Specified Value	RA, RB Series	Appearance : No abnormality Impedance change : Within $\pm 20\%$
	RD Series	
	MA Series	—
Test Methods and Remarks	Temperature : $60 \pm 2^{\circ}\text{C}$ Humidity : $90 \sim 95\% \text{RH}$ Duration : 1000 hrs Recovery : 3hrs of recovery under the standard condition after the removal from the test chamber.	

9. Low temperature life test		
Specified Value	RA, RB Series	Appearance : No abnormality Impedance change : Within $\pm 20\%$
	RD Series	
	MA Series	—
Test Methods and Remarks	Temperature : $-40 + 0 / -3^{\circ}\text{C}$ Duration : 1000 hrs Recovery : 3hrs of recovery under the standard condition after the removal from the test chamber.	

10. High temperature life test		
Specified Value	RA, RB Series	Appearance : No abnormality Impedance change : Within $\pm 20\%$
	RD Series	
	MA Series	—
Test Methods and Remarks	Temperature : $85 + 3 / -0^{\circ}\text{C}$ Duration : 1000 hrs Recovery : 3hrs of recovery under the standard condition after the removal from the test chamber.	

Note on standard condition :

“standard condition” referred to herein is defined as follows :

5 to 35°C of temperature, 45 to 85% relative humidity, and 86 to 106 kPa of air pressure.

When there are questions concerning measurement results :

In order to provide correlation data, the test shall be conducted under condition of $23 \pm 2^{\circ}\text{C}$ of temperature, 60 to 70% relative humidity, and 86 to 106 kPa of air pressure.

Unless otherwise specified, all the tests are conducted under the “standard condition.”