

AISHI Hunan Aihua Group Co., Ltd.



Technology Roadmap

〔 技术中心 〕

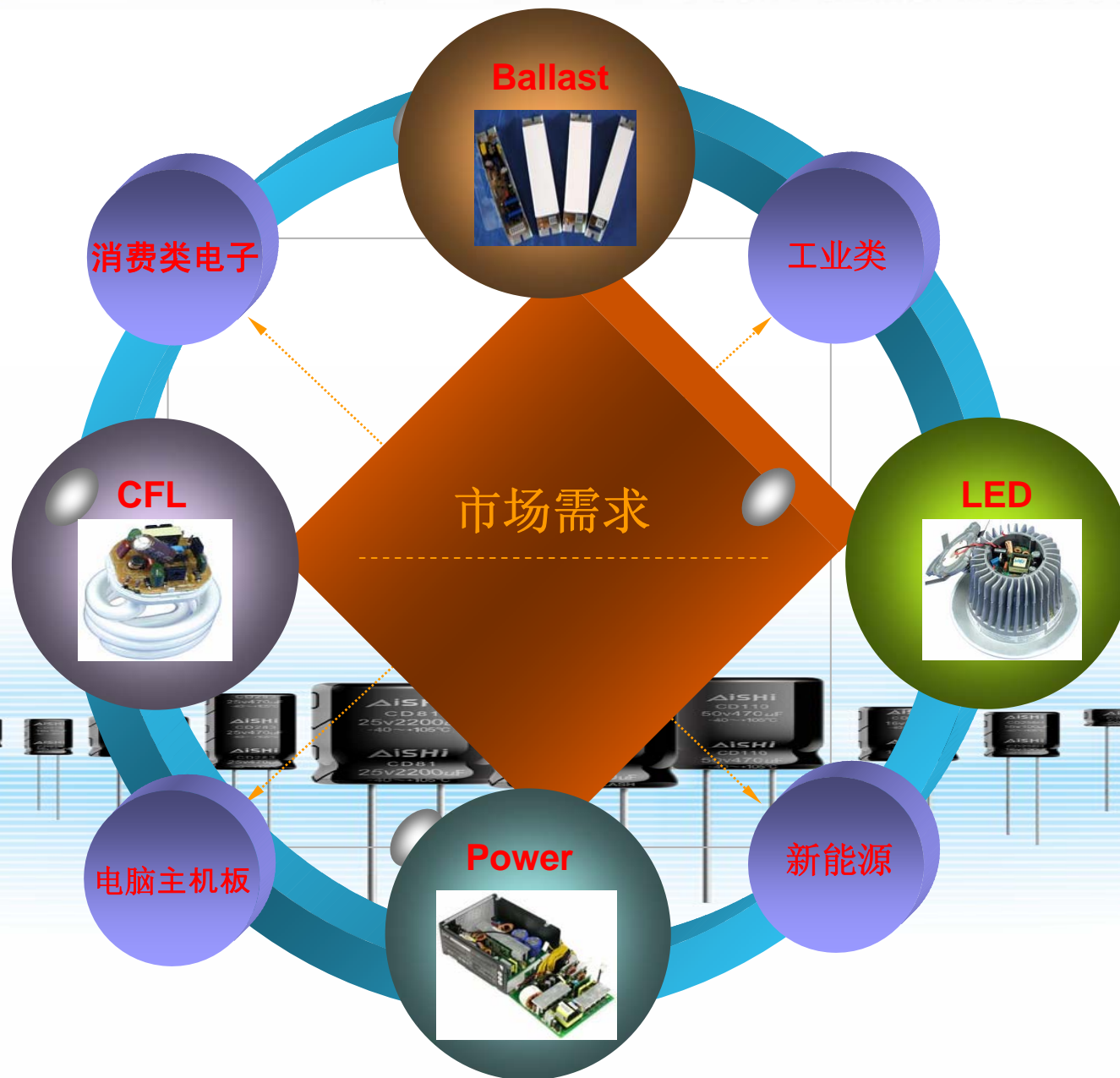
ADD: Jinxiu Road, Yiyang City, Hunan, China

WEB: <http://www.aihuaglobal.com>

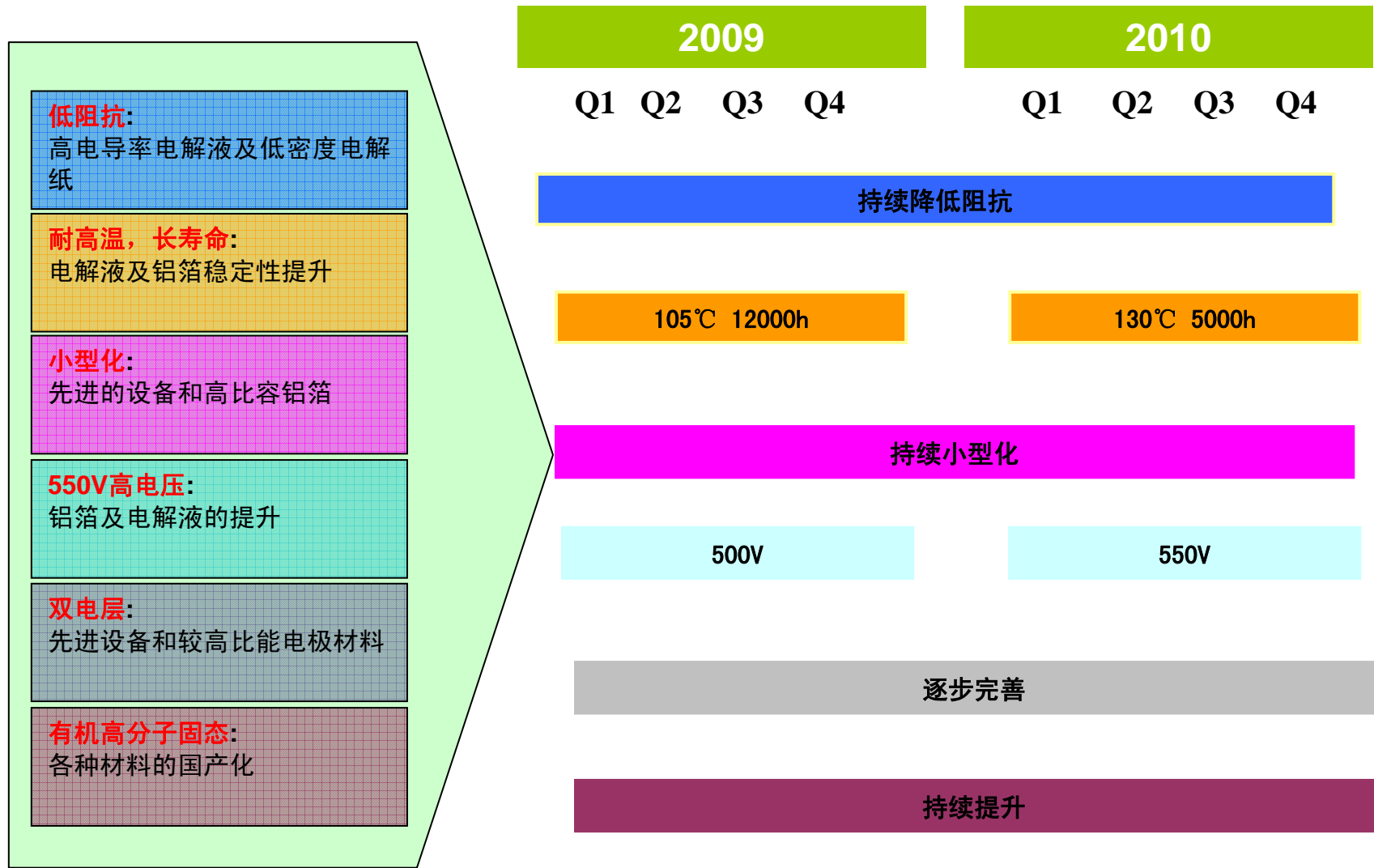
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Technology Roadmap (技术路线)

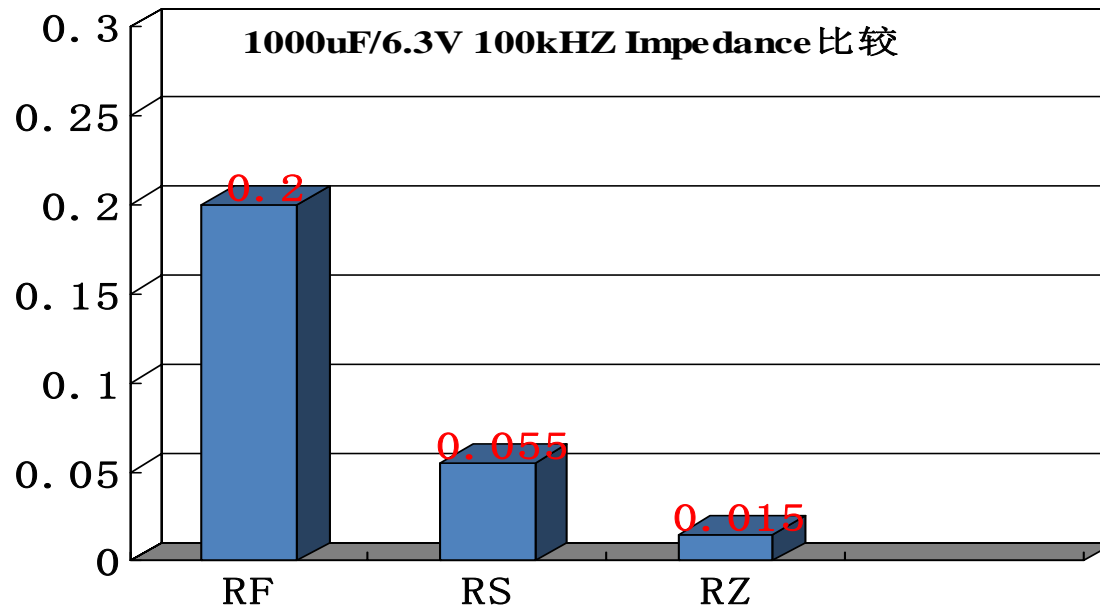


Technology Roadmap (技术路线)

Low ESR & Low Impedance

我们的目标：愿消费类电子产品制造商在Low ESR E-CAP需求时候，首选AISHI电容。

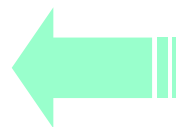
Low ESR E-CAP的ESR值降低50%以上。



Technology Roadmap (技术路线)

Low ESR & Low Impedance

高导电率低损耗电解液开发



自主开发的智能化RD研发系统
已经建立并投入使用

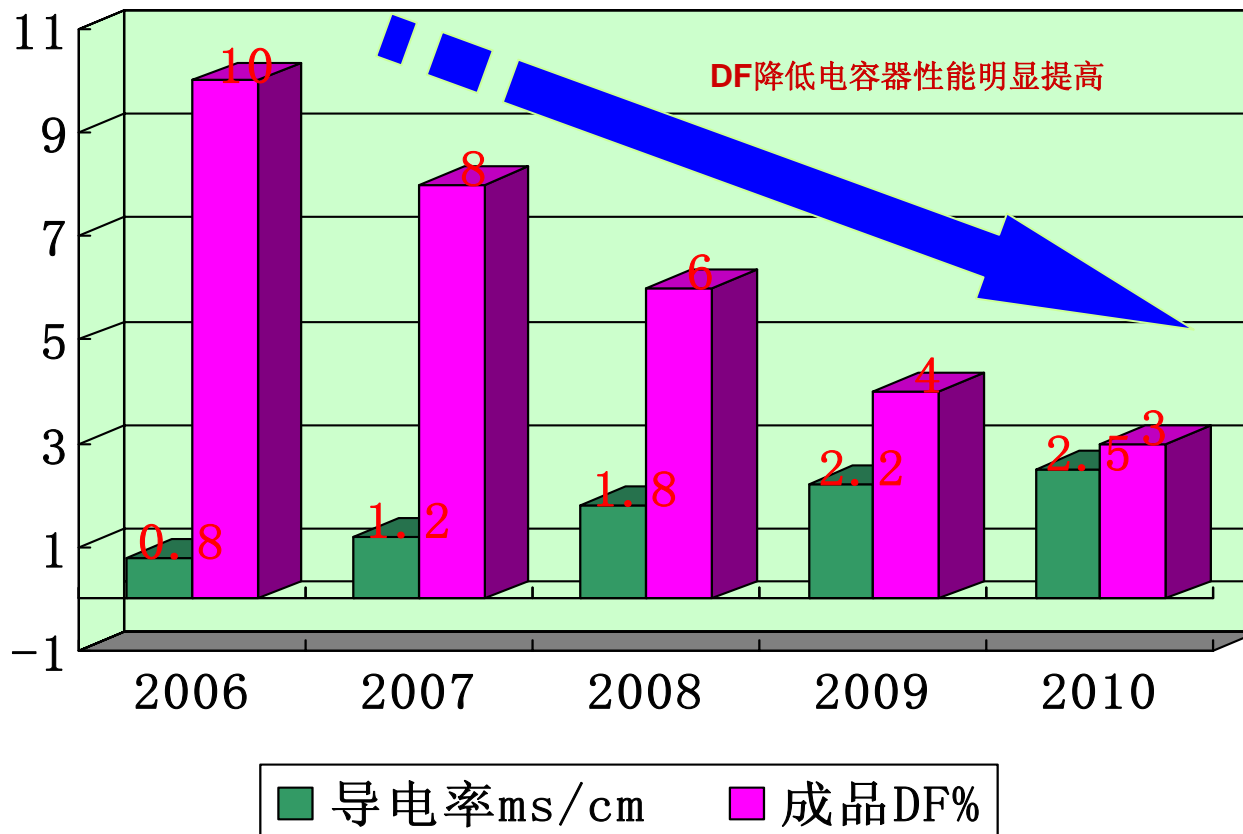
全进口化工材料配置的电解液，
用在电容器中效果明显



Technology Roadmap (技术路线)

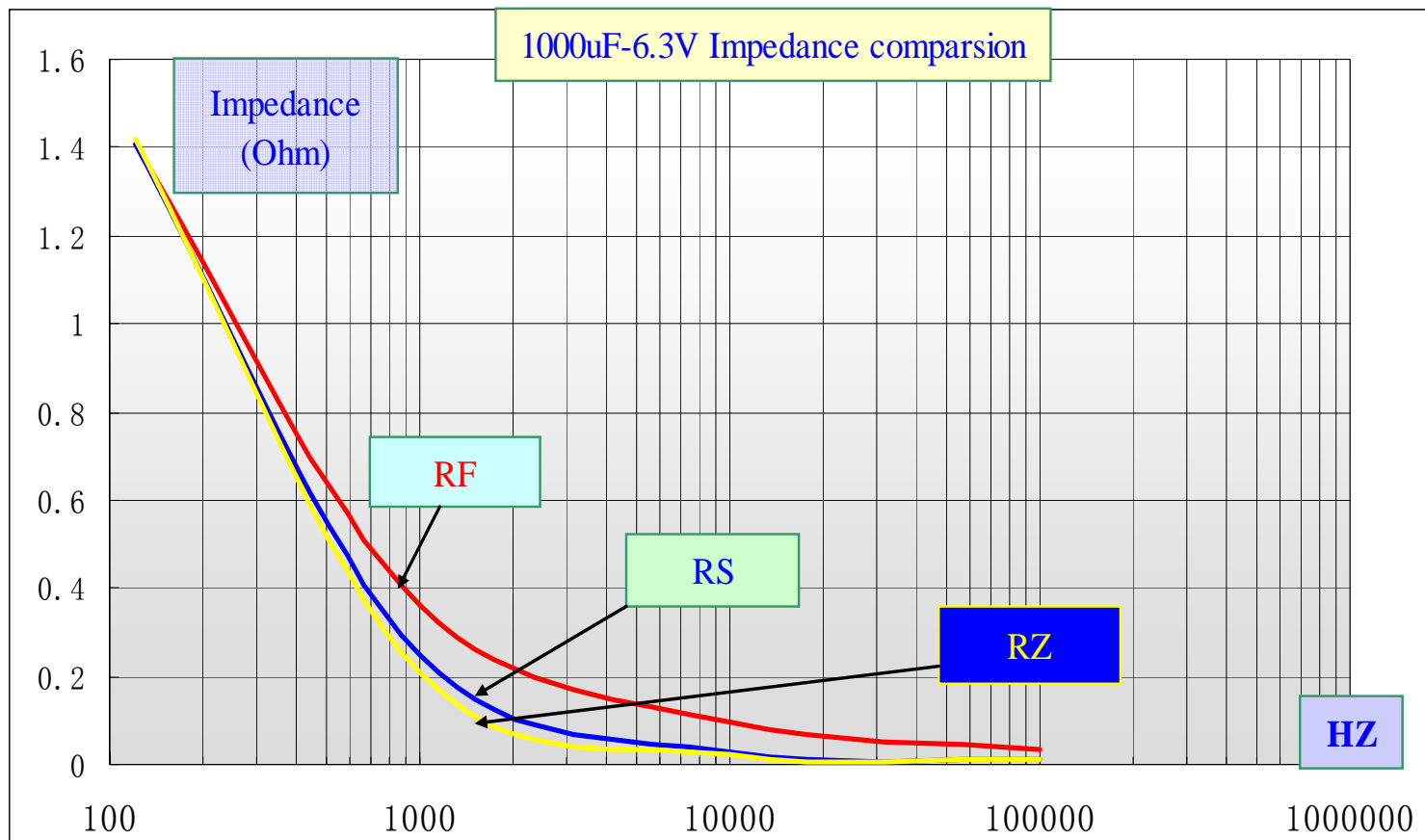
Low ESR & Low Impedance

高导电率低损耗电解液应用



Technology Roadmap (技术路线)

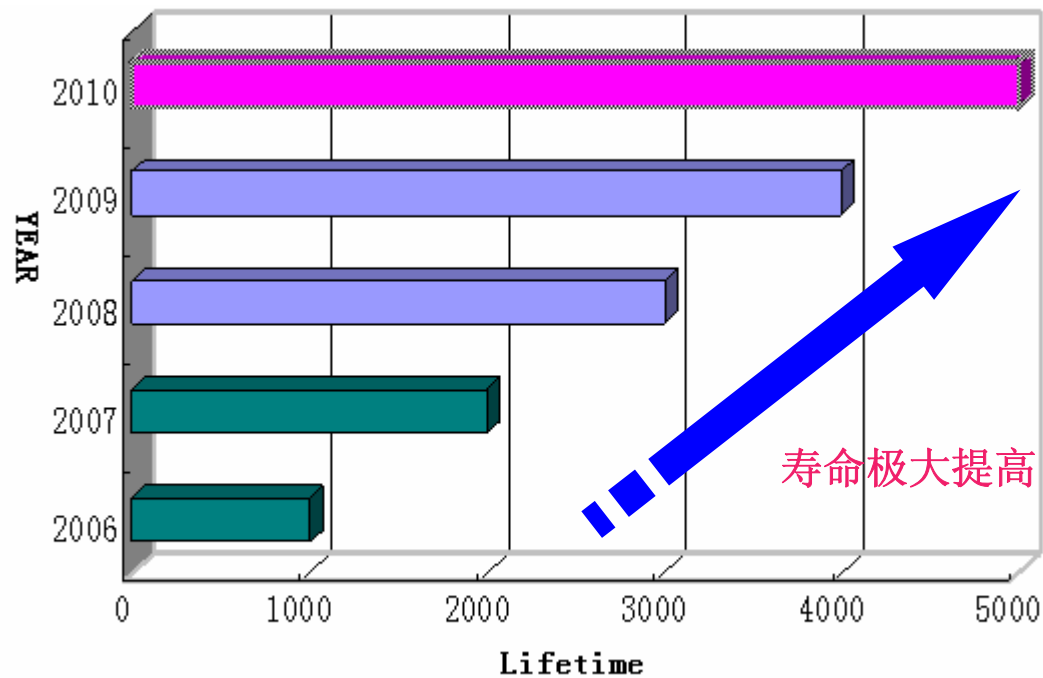
Low ESR & Low Impedance



Technology Roadmap (技术路线)

Extending Long Life

130度 高压 (160V到450V) **5000H** 引线式铝电解电容器

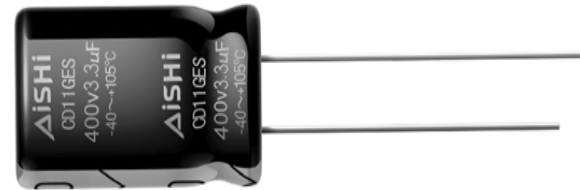


Technology Roadmap (技术路线)

130°C 5000H Radial type

CD11GC series

NEW!



特性:

- 寿命: 130°C 5000h
- 额定电压: 160 to 400V
- 容量范围: 2.2uF to 220uF
- 温度范围: -40~+130 °C
- 尺寸: 10×16 to 18×31mm

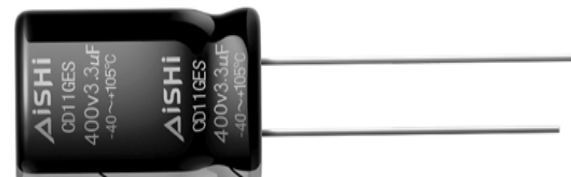
Especially designed for electronic ballast !!

Technology Roadmap (技术路线)

Miniaturized Extremely Long life

CD11GES series

NEW!



Characteristics(特性):

Rated volt(电压范围):250To 450V
 C range(容量范围):1.0 To 47uF
 Size range(尺寸范围):8×12 To 18×25

- 尺寸比GE系列小10%~20%
- 耐纹波电流能力比GE系列大8%-10%

对照表

| WV | CAP. | CD11GE | | ➔ | CD11GES | |
|------|---------|---------|------------|---|---------|------------|
| | | Size | Ripple(mA) | | Size | Ripple(mA) |
| 400V | 2.2 μ F | 10×16 | 92 | ➔ | 8×12 | 102 |
| | 6.8 μ F | 12.5×20 | 220 | | 10×16 | 235 |
| 450V | 22 μ F | 16×25 | 580 | | 12.5×30 | 610 |
| | 47 μ F | 18×30 | 860 | | 18×25 | 950 |

Technology Roadmap (技术路线)

LED专用铝电解电容

CD11GD series

NEW!



Lifetime +105°C 5000hrs!!

特性:

- 电压范围:200 To 400V
- 容量范围:1.0 To 33uF
- 尺寸范围:6.3×12 To 10×20mm

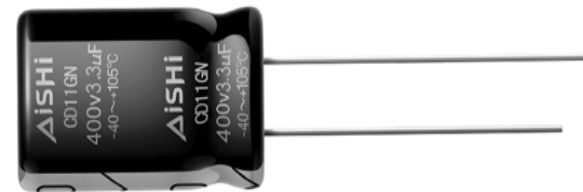


Technology Roadmap (技术路线)

LED专用铝电解电容

CD11GN series

NEW!



Lifetime +105°C 10,000hrs!!

特性:

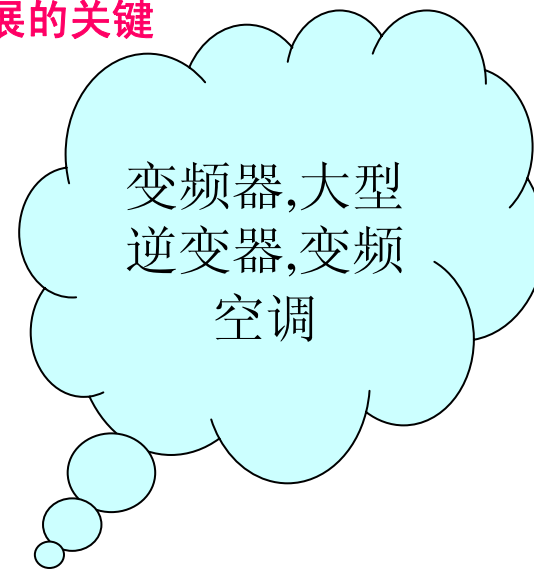
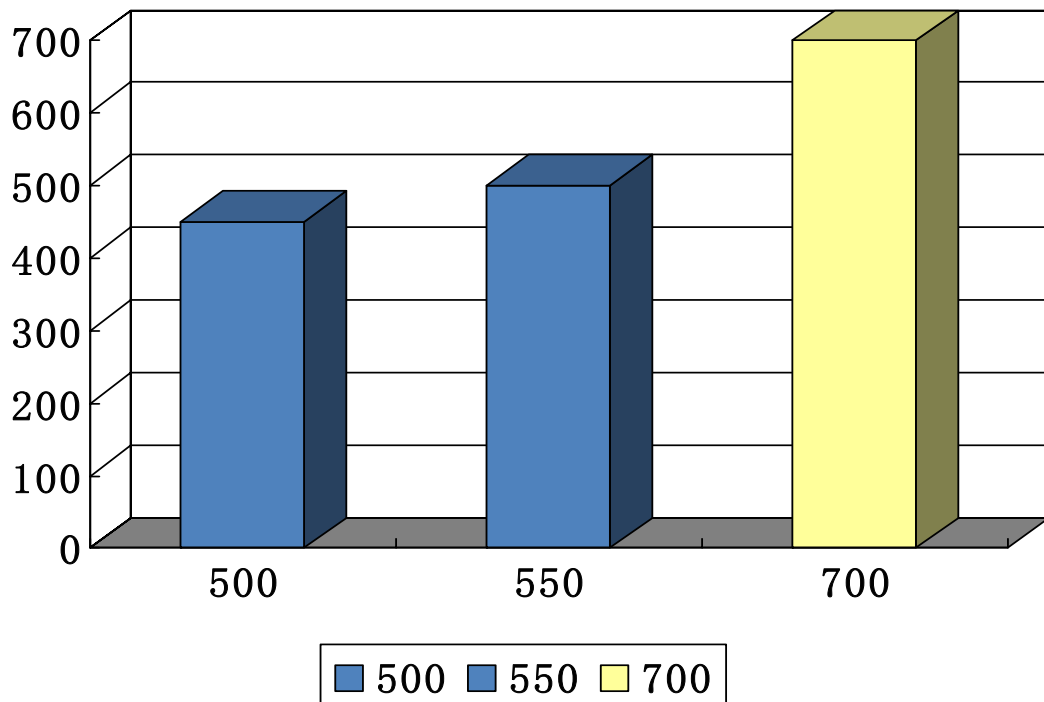
- 电压范围:200 To 400V
- 容量范围:4.7 To 22uF
- 尺寸范围:8×12 To 10×20mm



Technology Roadmap (技术路线)

550V105°C铝电解电容

腐蚀，化成，电解液三大技术的突破是铝电解向更高电压发展的关键



未来市场



Technology Roadmap (技术路线)

双电层电容器的研制

◆ 双电层电容器概要

双电层电容也称超级电容，是利用活性炭多孔电极和电解液组成的双电层结构获得超大容量，因存储电荷时候不产生化学反应，所有可以快速充放电。

◆ 特点

➤ 快速充放电

进行大电流充放电时，能量损失很小，电性能参数变化很小；

➤ 循环寿命长

循环使用寿命长，深度充放电循环使用次数可达1~50万次，没有“记忆效应”；

➤ 温度特性好

在-25℃低温条件下容量变化率小，可以稳定工作；

➤ 容量范围广

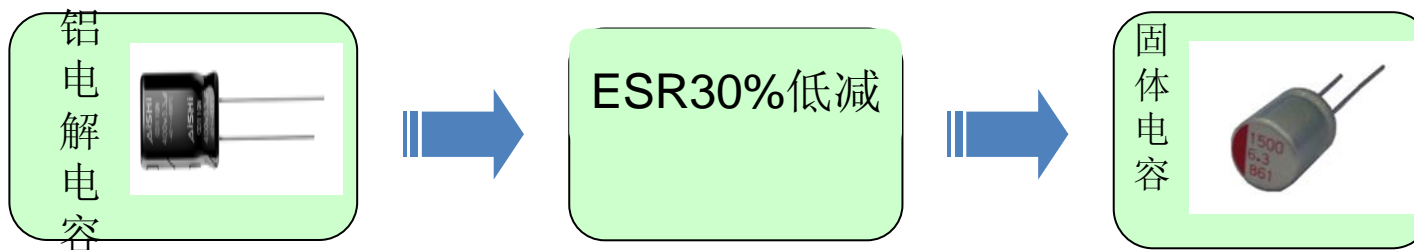
通常容量范围在0.1F—1000F

◆ 用途

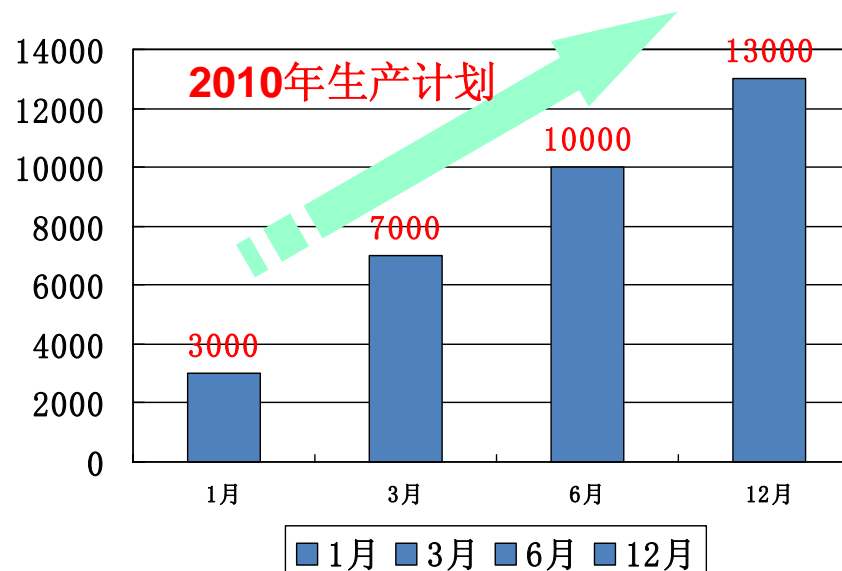
电动大客车、电动小轿车、风能变桨系统、太阳能储能等

Technology Roadmap (技术路线)

有机高分子固体铝电解电容器



| 固体电容电压容量 | |
|----------|------------------|
| WV | CAP |
| 2.5V | 470~2700 μ F |
| 4V | 270~1200 μ F |
| 6.3V | 220~1000 μ F |
| 10V | 47~680 μ F |
| 16V | 100~470 μ F |
| 25V | 10~47 μ F |



单位:Kpcs

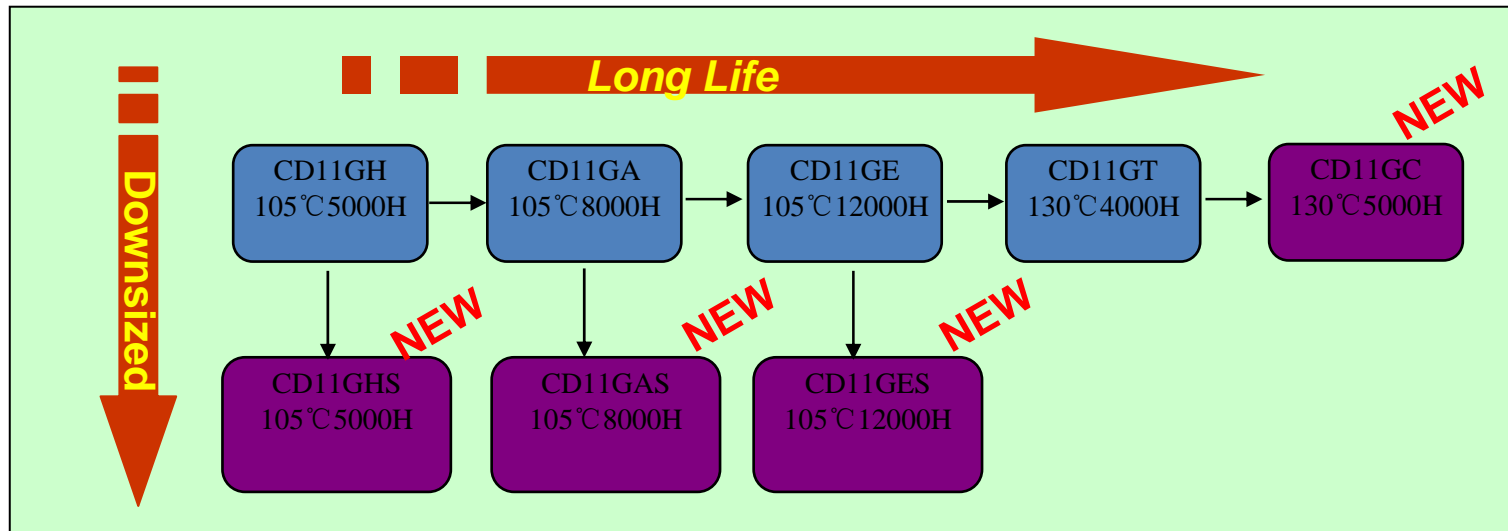
Technology Roadmap (技术路线)

Roadmap for New series

➤ High reliability especially designed for electronic ballast



- Long life
- Smaller size
- High Temperature



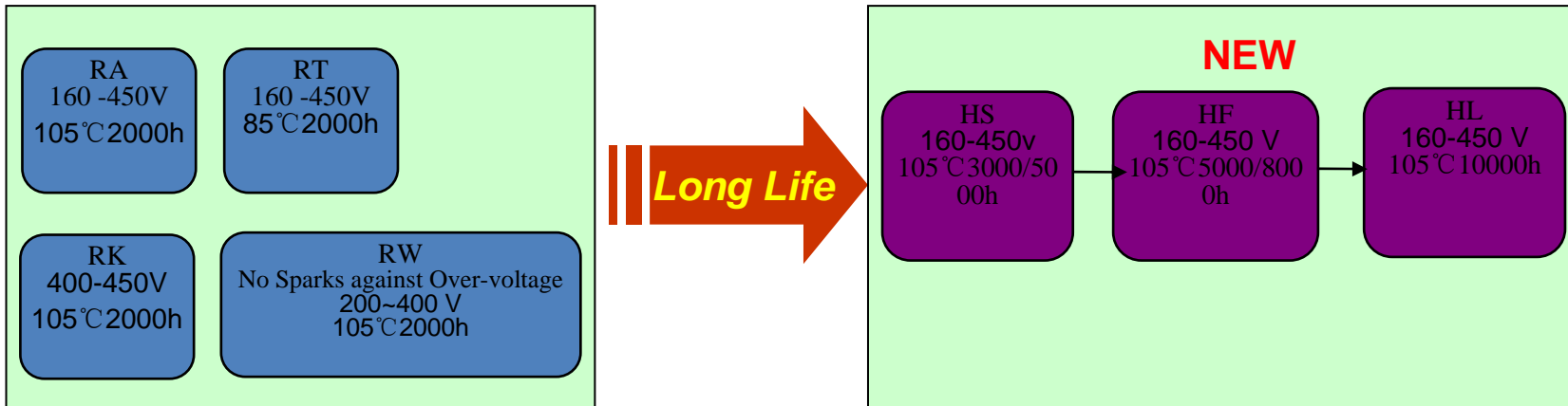
Technology Roadmap (技术路线)

Roadmap for New series

➤ Power for input filtering



• Long life
• High reliability



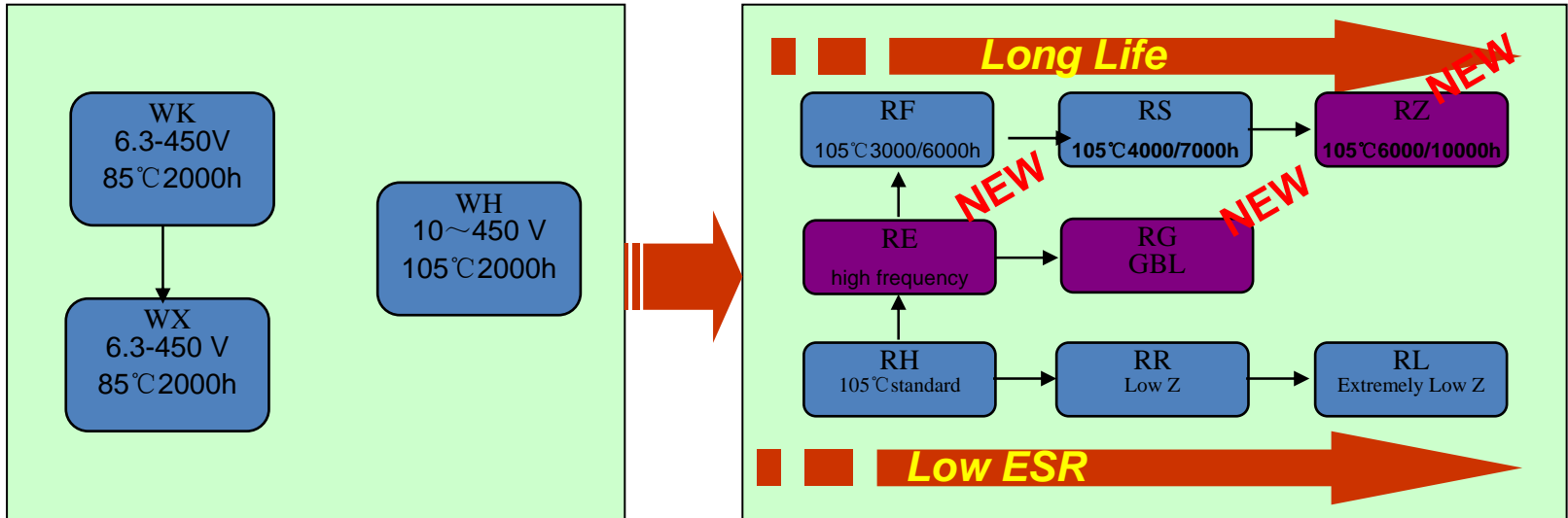
Technology Roadmap (技术路线)

Roadmap for New series

➤ High frequency Low Impedance



• Long life
• Low ESR



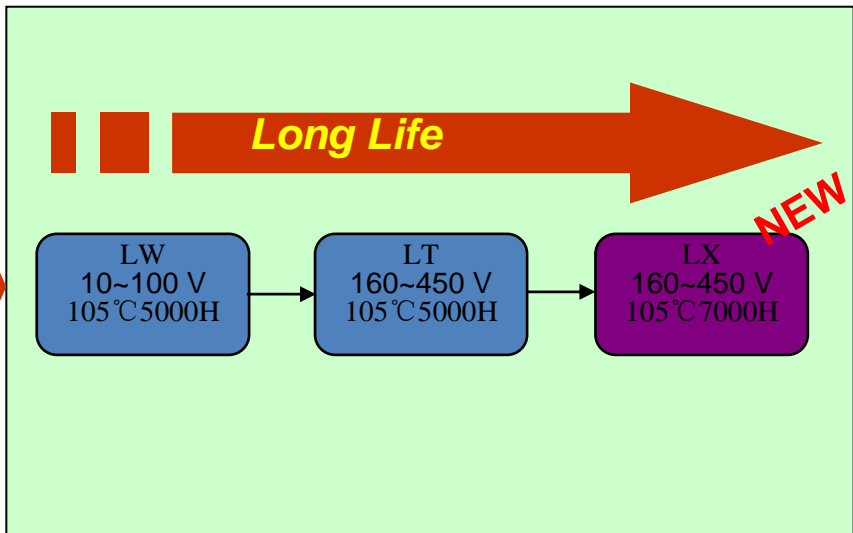
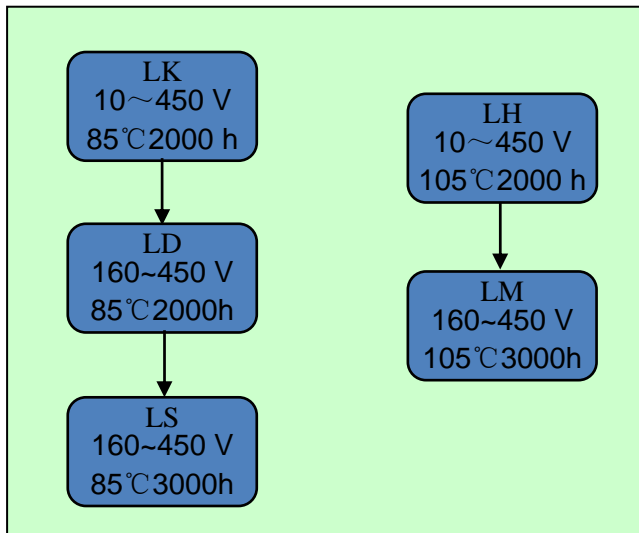
Technology Roadmap (技术路线)

Roadmap for New series

➤ Large Sized



- Long life
- High ripple





***Your Partner
in Success!***