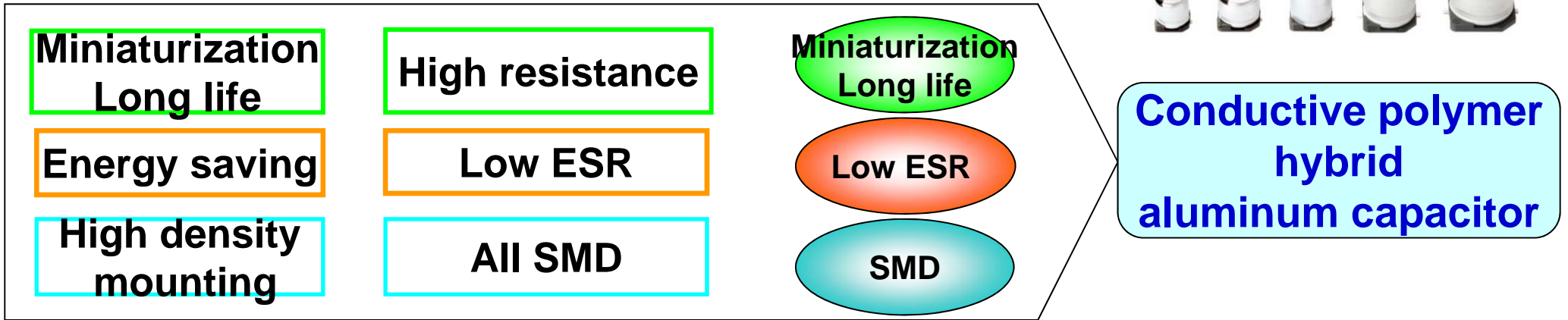


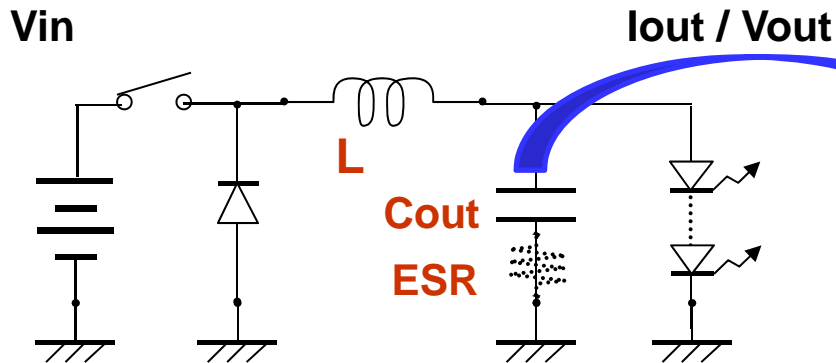
Case Study : 2-1



Contribution to miniaturization/low ESR / all SMD

◆ Panasonic proposal to LED-BL driver circuit



◆ Proposed case : LED-BL driver



	50V Line	
Capacitors	Competitor: Hybrid capacitor	Hybrid capacitor ZA series
Item	$\Phi 10 \times 10.2$ mm, 80V, 18 μ F x1 pc. 	$\Phi 8 \times 10.2$ mm, 80 V, 22 μ F x1 pc.  EEHZA1K220P
Mounting area	100 % (106 mm ²)	64 % (69 mm ²)
Height	100 % (10.2 mm)	100 % (10.2 mm)
ESR	50 m Ω (100 KHz)	45 m Ω (100 kHz)
Endurance	105 °C, 10000 h	105 °C, 10000 h

Case Study : 2-2

Contribution to high performance for liquid crystal-BL

◆ Panasonic proposal to liquid crystal-BL power supply



Conductive polymer hybrid aluminum capacitor

Energy saving

Low ESR

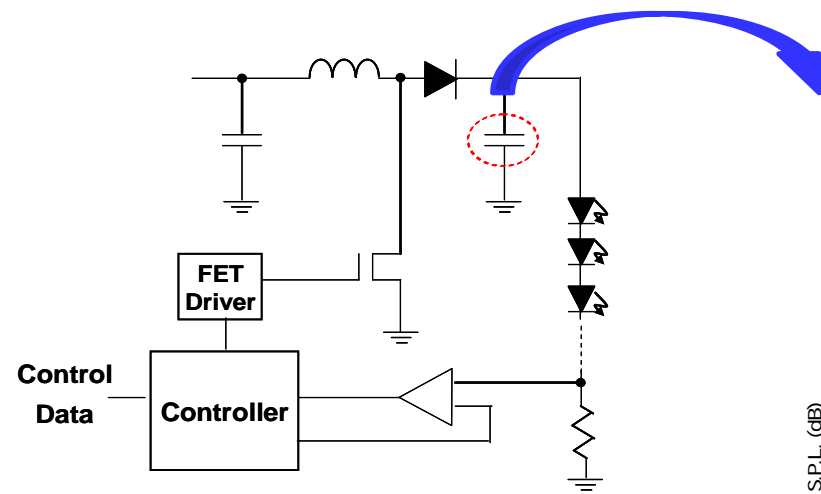
Low ESR



High reliability

No sound-noise

Hybrid

◆ Proposed case : liquid crystal-BL



	12V Line	
Capacitors	MLCC	Hybrid capacitor ZA series
Item	3216, 25V, 10 μ F x1 pc. 	Φ 6.3 x 5.8 mm, 25V, 56 μ F x1 pc.  EEHZA1E560P

Improvement sound-noise and stability of operation

