

## Ultra-Compact Low Profile 2-Color Chip LEDs

*Industry-small form factor contributes to thinner, more vibrant displays in industrial and consumer devices*



We have recently announced the availability of the industry's smallest class (1608 size) of 2-color chip LEDs. In addition to their breakthrough size, the [SML-D22MUW](#) features a special design that improves reliability along with a backside electrode configuration that supports high-resolution displays.

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TechWeb Information

**Full of Technical Information**  
for Power Supply Design by ROHM

### **DC/DC Converters: Sharing of Transfer Functions among Control Systems** **State-Space Averaging Method**

In the previous section, we explained "state-space averaging" in

### **Positioning and Target Market of 80 V Rated DC/DC Converter ICs** **Product Key Points**

With increasing use in telecom-related areas, industrial equipment,

order to derive a transfer function that could be applied to step-down, step-up, and step-up/down modes. This time, we perform a static analysis based on the derived equations. The equations of the previous section are used, and so it may aid understanding to read the contents of the previous section as well.

The equations derived the previous time for coil current and capacitor charge amount are shown on the first line...

and more recently in applications employing battery stacks, demand for high-voltage DC/DC converters continues to rise. However, only a limited number of manufacturers are supplying DC/DC converter ICs with rated voltages above 60 V, and a variety of such devices is not currently available.

What is the positioning of 80 V rated devices among DC/DC converter ICs, and what kind of markets are in need of such products?

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Special contents for subscribers

Any trouble with thermal problems? (Shunt Resistors)

Quick Reference of Resistance Range



Legend: GMR, GMR, GMR, PML, Metal Plate, LTR, UCR, UCR, Thick Film

Rated Power(W)	Resistance[Ω]	0.1m	1m	10m	100m	1	10
5	0.1m	PRR600 / 18x7.7(08x1)					
4	0.1m	PRR600 / 18x9.2(08x1)					
3	0.1m	PRR100 / 64322(2312)					
2	0.1m	PML100 / 3224(1200)					
1.5	0.1m	PML100 / 3224(1200)					
1	0.1m	PML100 / 3224(1200)					
0.66	0.1m	PML10 / 1220(0568)					
1/2	0.1m	PML10 / 1220(0568)					
1/3	0.1m	PML10 / 1220(0568)					
1/4	0.1m	PML10 / 1220(0568)					
1/5	0.1m	PML10 / 1220(0568)					
1/8	0.1m	PML10 / 1220(0568)					
1/10	0.1m	PML10 / 1220(0568)					

You can refer ROHM's broad portfolio of Introduction of "High power" and "Ultra Low Ohmic" resistors for current detection under high power circuit. Especially, GMR and LTR have a wide range of line up with rated power(0.5~5W).

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