

New High Resolution Audio SoC Supports a Variety of Sound Sources

ROHM also offers the industry's first high resolution audio reference design



We have recently announced the availability of a high resolution audio SoC [BM94803AEKU](#) designed to act as the 'brain' in audio applications such as Bluetooth speakers, USB DACs, and mini/micro component systems by carrying out control and management of peripheral components and input/output I/F as well as enable playback of a wide range of audio sources.

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TechWeb Information

Full of Technical Information
for Power Supply Design by ROHM

1700 V High Voltage SiC-MOSFET: Combining with SiC AC/DC Converter Control IC Greatly Boosts Efficiency

DC/DC Converters: What capacitor and inductor are the best for a switching power supply?

Combining with SiC AC/DC Converter Control IC Greatly Boosts Efficiency

ROHM is putting resources into development of power devices. The SCT2H12NZ, which was recently announced and is already in mass production, is an SiC-MOSFET that achieves a high 1700 V voltage rating. With this, a high-voltage version is added to a lineup that already includes 650 V and 1200 V versions.

[Read more](#)

Reading and Understanding Inductor Specifications and Equivalent Circuits

There certainly are not a few people who are not comfortable dealing with magnetic components. But, switching power supplies have become an indispensable component, and cannot be avoided. Here we would like to answer queries to deepen the reader's understanding of inductors.

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Special contents for subscribers

Any trouble with thermal problems? (Shunt Resistors)

Quick Reference of Resistance Range



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

Rated Power(W)	Resistance(Ω)	0.1m	1m	10m	100m	1	10
5	0.1m	PMR60 / 18x7.76(53)					
4	0.1m	PMR60 / 18x9.3(92)					
3	0.1m	PMR100 / 22x12(19)					
2	0.1m	PMR100 / 22x12(19)					
1.5	0.1m	PMR50 / 20x9(10)					
1	0.1m	PMR25 / 32x5(12)					
0.66	0.1m	PMR18 / 16x3(8)					
1/2	0.1m	PML10 / 12x10(6)					
1/3	0.1m	PMR10 / 20(12)					
1/4	0.1m	PMR03 / 16x8(6)					
1/5	0.1m	PMR01 / 10x5(4)					
1/8	0.1m	PMR01 / 10x5(4)					
1/10	0.1m	PMR01 / 10x5(4)					

Part No. / Size mm(Inch)
* : Under development

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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