



## SABRE9602C SABRE Headphone Driver with Output Switch Product Brief

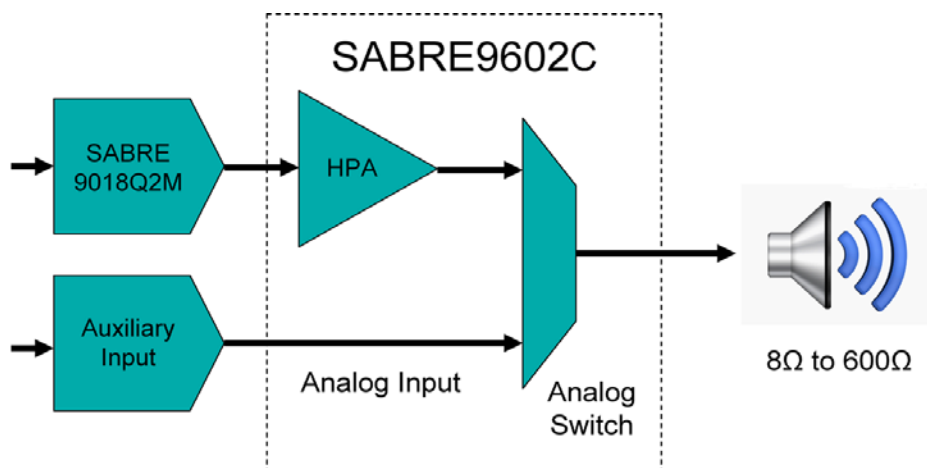
The **SABRE9602C Headphone Driver and Output Switch** is the industry's highest performance, standalone headphone driver targeted for audiophile-grade portable applications such as mobile phones, tablets and digital music players.

The **SABRE9602C Headphone Driver and Switch** delivers 122dB SNR and  $-117\text{dB THD+N}$ , a new benchmark in standalone headphone driver performance that will satisfy the most demanding audio enthusiasts.

The **SABRE9602C Headphone Driver and Switch** is available in a 24-Ball Chip Scale Package (CSP)

Like ESS' high-quality SABRE<sup>32</sup> Reference DACs, the **SABRE9602C Headphone Driver and Switch** sets the standard for HD Audio performance with **SABRE SOUND™** quality for today's most demanding audio applications.

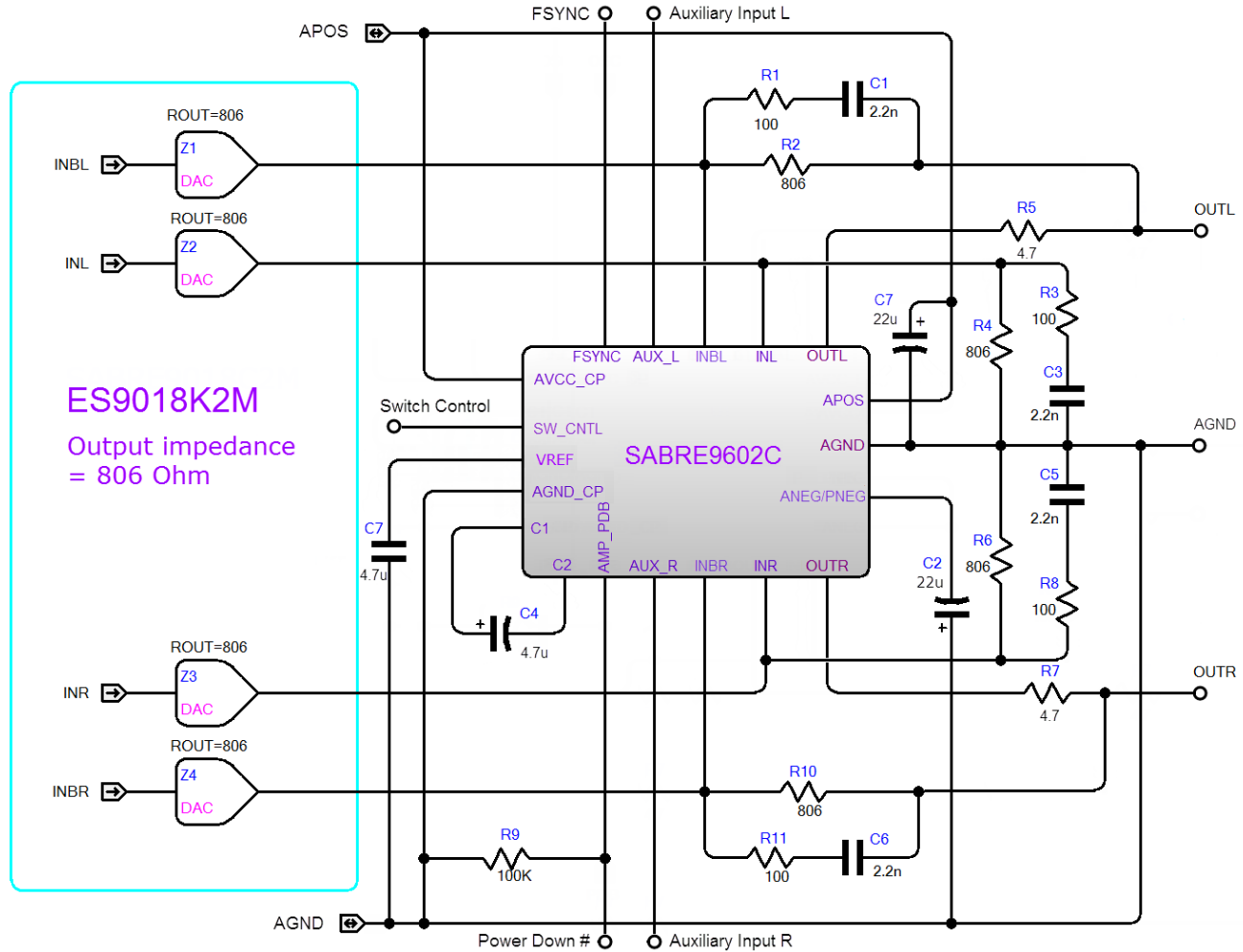
FEATURE	DESCRIPTION
Unmatched performance <ul style="list-style-type: none"> <li>+122dB SNR</li> <li><math>-117\text{dB THD+N}</math>: 2Vrms into 600Ω load</li> <li><math>-102\text{dB THD+N}</math>: Pout = 49mW into 32Ω load</li> </ul>	<ul style="list-style-type: none"> <li>Industry's highest performance audio headphone or line-out driver for mobile applications</li> <li>Delivers SABRE SOUND™ quality all the way to the headphones</li> </ul>
Ground reference output	<ul style="list-style-type: none"> <li>Eliminates large blocking capacitors</li> </ul>
Pop-noise suppression	<ul style="list-style-type: none"> <li>Powers up and down without any clicks or pops</li> </ul>
Charge pump for negative supply	<ul style="list-style-type: none"> <li>Single AVCC operation simplifies power supply</li> </ul>
24-Ball CSP	<ul style="list-style-type: none"> <li>Minimizes PCB footprint</li> </ul>
7mA / 300μA, quiescent / standby current	<ul style="list-style-type: none"> <li>Maximizes battery life</li> </ul>





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## APPLICATION DIAGRAM



Simplified SABRE9602C Application Circuit.

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