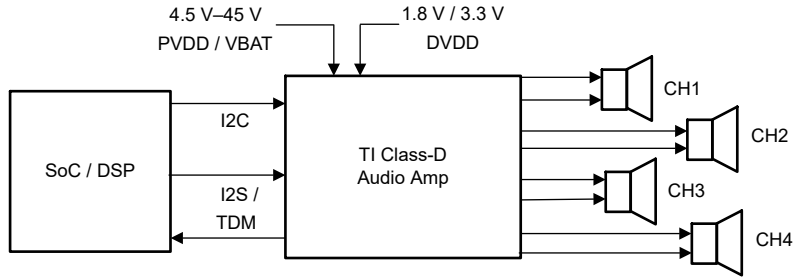


汽車音響系統設計人員要尋找的是能符合其新一代音響系統所需的完備功能。車規 D 類音訊放大器可用於提供系統高效率、可擴充輸入供應電壓、高輸出電流、負載診斷，以及完整的保護功能套件，並能輕鬆地滿足上述需求。



D 類音訊放大器配置圖

設計考量

- 以所需的輸出功率為驅動喇叭負載提供電壓和輸出電流能力
- 使用針腳對針腳相容裝置的喇叭數量 (通道計數) 和設計可擴展性
- 客戶要求的車用診斷和保護功能。如要了解更多資訊，請查看 [汽車語音診斷與保護](#)、影片系列和 [即時負載診斷](#) 應用簡介。
- 尺寸限制包含印刷電路板 (PCB) 區域和散熱器尺寸

輸入類型	最大運作電壓	零件編號 ⁽¹⁾	頻道數量	單位通道輸出電流	特色
數位	45 V	TAS6584-Q1	4	10 A	480 kHz 或 2 MHz Fsw、即時負載診斷、待機交流和直流電壓診斷、電流感測、H 級控制、低延遲路徑、進階 EMI 功能
	26.4 V	TAS6424E-Q1	4	7.2 A	2 MHz Fsw、待機交流和直流電壓診斷、進階 EMI 功能
		TAS6422E-Q1	2	6.5 A	2 MHz Fsw、待機交流和直流電壓診斷、進階 EMI 功能
		TAS6424-Q1	4	6.5 A	2 MHz Fsw、待機交流和直流電壓診斷
		TAS6422-Q1	2	6.5 A	2 MHz Fsw、待機交流和直流電壓診斷
		TAS6421-Q1	1	6.5 A	2 MHz Fsw、待機交流和直流電壓診斷
	18 V	TAS6424M-Q1	4	6.5 A	2 MHz Fsw、待機交流和直流電壓診斷
		TAS6424L-Q1	4	4.8 A	2 MHz Fsw、待機交流和直流電壓診斷
類比	18 V	TPA6304-Q1	4	6.5 A	2 MHz Fsw、待機交流和直流電壓診斷、進階 EMI 功能
		TPA6404-Q1	4	6.5 A	2 MHz Fsw、待機交流和直流電壓診斷

(1) 請瀏覽 [線上參數工具](#)，您將可以從其三種類型轉換器中做選擇以了解更多資訊。

如需 TI 音訊工程師協助，請前往 [TI E2E™ 語音支援論壇](#)。

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