Audio Feast

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FINEMET PCM63 Transformer



Specification:

Transformer Ratio: 1+1:5+5 (0-300 ohm, 0-300 ohm: 0-8K, 0-8K)Maximum output level: 10V at 5Hz, 20mA with series secondary connection

Primary inductance: 5H (minimum) at 20Hz with 0 - 300 ohm

DCR: 3.42 ohm at 0-300 ohm parallel 320 ohm at 0-32K ohm series

Secondary load resistor for 1:10 configuration for PCM63:

Primary connection: parallel (300 ohm)

Secondary connection: series (32K)

DAC output current: 4mAp-p = 4x0.345=1.4mA rms

Secondary current: 1.4mA/10 = 0.14mA rms

Output voltage: 1Vrms

Secondary load R: R=V/I = 1V/0.14mA = 7142KR=8.2K ohm (with insertion loss)

The secondary load R value can change sound characteristics. Optimum sound is depending on your system configurations. I would use 10K potentiometer and search for the sweet spot. Once you find the optimum value, replace it with a fixed value resistor.

