
Subject: Re: Questions on sub-woofer amps

Posted by [Adrian Mack](#) on Thu, 28 Apr 2005 02:30:24 GMT

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Its there to artificially boost the low end response. Especially for sealed box subwoofers. If its the typical PE/Apex/Stryke style plate amp, it uses an EC SK 2nd order HP filter. Essentially its a high-Q 2nd order highpass filter. When $Q > 1.0$ it forms a filter peak which is what forms the "bass boost", or EQ. Modifying it is a matter of replacing two resistors on the preamp board, and using simple textbook formula's to choose any Q and Fc you want. It is possible to design a subwoofer which EQ is an integral part of the design to form flat response, but EQ used disappropriately always makes a bad result.
